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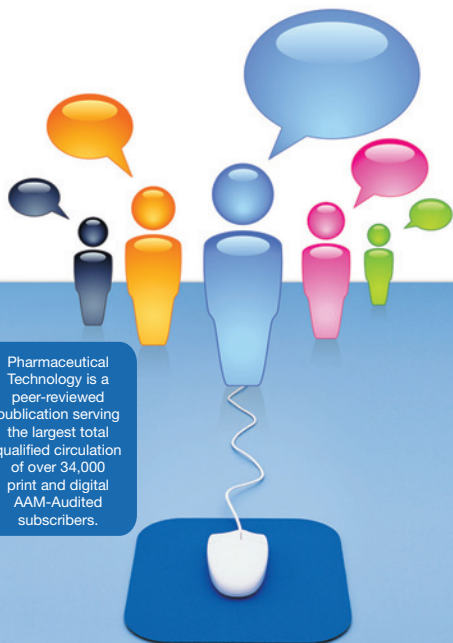
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Pharmaceutical Technology's Buyers' Guide and Best Practices 2017 connects our readers with ingredient, equipment, and service suppliers that help our industry grow with the changing pharmaceutical environment. The guide helps buyers find the right suppliers of chemicals, raw materials, intermediates, and excipients; manufacturing equipment and supplies; cleanroom equipment and supplies; packaging equipment and accessories; laboratory equipment and supplies; information technologies; and outsourcing services.

This year's guide also includes articles, written by industry experts, describing best practices in a variety of manufacturing disciplines. Insights from industry leaders provide readers with a look at today's trends and into the future of the industry. And to help our readers navigate the pharma world, the Regulatory Resources section offers a guide to industry organizations, guidelines, and events. **PT**



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Ruger Chemical Co
Universal Preserv-
A-Chem**ALBUTEROL
SULFATE**Neuland Labs Ltd
Ruger Chemical Co**ALCOHOLS**Arista Industries
Croda, Health Care
Grain Processing Corp
Penta Mfg Co,
Div Penta Intl Corp**ALCOHOLS,
ETHOXYLATED**Brenntag North America
CoKEM Assocs
Croda, Health Care
Ruger Chemical Co
Universal Preserv-
A-Chem**ALCOHOLS,
PROPOXYLATED**CoKEM Assocs
Croda, Health Care
Ruger Chemical Co
Universal Preserv-
A-Chem**ALDEHYDES**Advanced Synthesis,
Chemical Div
Brenntag North America
Hexion, Epoxy, Phenolic
& Coating Resins Div
Ruger Chemical Co**ALGIN**FMC Corp,
FMC BioPolymer
TIC Gums
Universal Preserv-
A-Chem**ALGINIC ACID**AIC
FMC Corp,
FMC BioPolymer
JRS Pharma GmbH &
Co KGMulti-Kem Corp
Ruger Chemical Co
Universal Preserv-
A-Chem**ALKALOIDS**Momentum
Performance Materials**ALKANOLAMIDES**Arkema
Croda, Health Care
Ruger Chemical Co
Universal Preserv-
A-Chem**ALKYL ARYL
SULFONATES**Advanced Synthesis,
Chemical Div
Ruger Chemical Co
Universal Preserv-
A-Chem**ALKYL
DIMETHYLAMINE**Universal Preserv-
A-Chem**ALLANTOIN**International Specialty
Products
Ruger Chemical Co
Universal Preserv-
A-Chem**ALLYL ESTERS**

Ruger Chemical Co

**ALLYL ISOTHIOC-
YANATE (VOLATILE
OIL OF MUSTARD)**Advanced Synthesis,
Chemical Div
Penta Mfg Co,
Div Penta Intl Corp
Universal Preserv-
A-Chem**ALMOND OIL**Arista Industries
Brenntag North America
KIC Chemicals
Penta Mfg Co,
Div Penta Intl Corp
Ruger Chemical Co
Universal Preserv-
A-Chem**ALOE**Barrington Nutritionals
George Uhe Co
Ruger Chemical Co
Universal Preserv-
A-Chem**ALPHA BISABOLOL**

KIC Chemicals

ALPRAZOLAMCeres Chemical Co
Pfizer CentreOne**ALUM, AMMONIUM**Universal Preserv-
A-Chem**ALUM, POTASSIUM**Universal Preserv-
A-Chem**ALUMINUM
ACETATE**Ruger Chemical Co
Universal Preserv-
A-Chem

For vendor contact information, see Company Directory section.

ALUMINUM BROMIDE
Ruger Chemical Co

ALUMINUM CHLORIDE
Ruger Chemical Co
Universal Preserv-
A-Chem

ALUMINUM CHLORIDE, HYDROUS
Ruger Chemical Co
Universal Preserv-
A-Chem

ALUMINUM CHLOROHYDRATE
Morre-Tec Industries
Ruger Chemical Co
Universal Preserv-
A-Chem

ALUMINUM HYDROXIDE
Ruger Chemical Co
SPI Pharma
Universal Preserv-
A-Chem

ALUMINUM HYDROXIDE/MAGNESIUM CARBONATE CO-DRIED GEL
SPI Pharma
Universal Preserv-
A-Chem

ALUMINUM HYDROXIDE/MAGNESIUM HYDROXIDE CO-DRIED GEL
Ruger Chemical Co
SPI Pharma
Universal Preserv-
A-Chem

ALUMINUM HYDROXIDE/MAGNESIUM HYDROXIDE FLUID GEL
SPI Pharma
Universal Preserv-
A-Chem

ALUMINUM LACTATE
Universal Preserv-
A-Chem

ALUMINUM MONOSTEARATE
Universal Preserv-
A-Chem

ALUMINUM OXIDE
Brenntag North America
Charles B Chrystal
Ruger Chemical Co

ALUMINUM PHENOLSULFONATE
Universal Preserv-
A-Chem

ALUMINUM PHOSPHATE
SPI Pharma

ALUMINUM SILICATE
Arkema
Charles B Chrystal
Hexion, Epoxy, Phenolic
& Coating Resins Div
Momentive
Performance Materials

ALUMINUM SULFATE
Universal Preserv-
A-Chem

ALUMINUM-ZIRCONIUM TETRACHLORO-HYDREX-GLYCINE
Universal Preserv-
A-Chem

ALUMINUM-ZIRCONIUM TRICHLORO-HYDREX-GLYCINE
Universal Preserv-
A-Chem

AMANTADINE HCL
Asiameica Group
Universal Preserv-
A-Chem

AMILORIDE HCL
Napp Technologies LLC
Spectrum Chemical
Mfg Corp

AMINO ACID CHLORIDES
Advanced Synthesis,
Chemical Div
BioSpectra
Patheon

AMINO ACIDS (SEE ALSO SPECIFIC AMINO ACIDS)
Advanced Synthesis,
Chemical Div
AMINO GmbH
ANGUS Chemical Co
Arkema
Asiameica Group
Barrington Nutritionals
BioSpectra
Brenntag North America
Contract

Pharmcal Corp
Evonik Corp,
Health Care
Fortitech
Hexion, Epoxy, Phenolic
& Coating Resins Div
INDOFINE Chemical Co
PB Leiner USA
Penta Mfg Co,
Div Penta Intl Corp
Ruger Chemical Co
Sekisui XenoTech
Universal Preserv-
A-Chem

AMINO ACIDS, BLOCKED
Evonik Corp,
Health Care
INDOFINE Chemical Co

AMINO ACIDS, PROTECTED
Advanced Synthesis,
Chemical Div
Biolink Life Sciences
Evonik Corp,
Health Care
INDOFINE Chemical Co
Sekisui XenoTech

AMINO ACIDS, T-BUTYLOXY-CARBONYL
Evonik Corp,
Health Care

AMINOACETIC ACID
INDOFINE Chemical Co
Spectrum Chemical
Mfg Corp
Universal Preserv-
A-Chem

AMINOANTIPYRINE
Spectrum Chemical
Mfg Corp
Universal Preserv-
A-Chem

AMINOPHYLLINE
Asiameica Group
BASF Corp, G-ENP

Ceres Chemical Co
Ruger Chemical Co
Universal Preserv-
A-Chem

AMIODARONE
Asiameica Group

AMMONIA
Asiameica Group
Brenntag North America
Ruger Chemical Co
Universal Preserv-
A-Chem

AMMONIATED GLYCYRRHIZIN
Asiameica Group
MAFCO
Worldwide Corp
Penta Mfg Co,
Div Penta Intl Corp

Universal Preserv-
A-Chem

AMMONIUM ACETATE
Universal Preserv-
A-Chem

AMMONIUM ALGINATE
Asiameica Group
Universal Preserv-
A-Chem

AMMONIUM BENZOATE
Spectrum Chemical
Mfg Corp

AMMONIUM BICARBONATE
Brenntag North America

Ruger Chemical Co
Universal Preserv-
A-Chem

AMMONIUM BISULFITE
Brenntag North America
Ruger Chemical Co

AMMONIUM BROMIDE
Morre-Tec Industries
Ruger Chemical Co

AMMONIUM CARBONATE
Brenntag North America
Ruger Chemical Co
Universal Preserv-
A-Chem

AMMONIUM CHLORIDE
Arkema

AMMONIUM CITRATE
Jost Chemical Co
Ruger Chemical Co
Universal Preserv-
A-Chem

AMMONIUM HYDROXIDE
Arkema

AMMONIUM LACTATE
Ruger Chemical Co
Universal Preserv-
A-Chem



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- AMMONIUM LAURYL ETHER SULFATE**
Ruger Chemical Co
Universal Preserv-A-Chem
- AMMONIUM LAURYL SULFATE**
Ruger Chemical Co
Universal Preserv-A-Chem
- AMMONIUM NITRATE**
Spectrum Chemical Mfg Corp
- AMMONIUM PHOSPHATE, DIBASIC**
Brenntag North America
Budenheim USA
Jost Chemical Co
Ruger Chemical Co
Universal Preserv-A-Chem
- AMMONIUM PHOSPHATE, MONOBASIC**
Brenntag North America
Budenheim USA
Ruger Chemical Co
Universal Preserv-A-Chem
- AMMONIUM SALICYLATE**
Universal Preserv-A-Chem
- AMMONIUM SULFATE**
ANGUS Chemical Co
BioSpectra
Brenntag North America
Jost Chemical Co
Ruger Chemical Co
Universal Preserv-A-Chem
- AMMONIUM SULFITE**
Ruger Chemical Co
- AMMONIUM THIOGLYCOLATE**
Ruger Chemical Co
- AMMONIUM THIOSULFATE**
Ruger Chemical Co
- AMMONIUM VALERATE**
Penta Mfg Co,
Div Penta Intl Corp
- AMOBARBITAL**
Spectrum Chemical Mfg Corp
- AMOBARBITAL SODIUM**
Spectrum Chemical Mfg Corp
- AMODIAQUIN**
Sekisui XenoTech
Spectrum Chemical Mfg Corp
- AMOXICILLIN**
AIC
- AMPHETAMINE SULFATE**
Asiameica Group
Johnson Matthey,
Pharmaceutical Materials
- AMPICILLIN**
Momentive
Performance Materials
- AMPICILLIN SODIUM**
Momentive
Performance Materials
- AMYL ESTERS**
INDOFINE Chemical Co
Penta Mfg Co,
Div Penta Intl Corp
- AMYL NITRITE**
FAR Chemical
Spectrum Chemical Mfg Corp
- AMYRIS OIL**
Asiameica Group
- ANETHOLE**
Penta Mfg Co,
Div Penta Intl Corp
- ANGELICA**
Ruger Chemical Co
- ANILINE BLUE**
Spectrum Chemical Mfg Corp
- ANISE OIL**
Foote & Jenks Corp
KIC Chemicals
Penta Mfg Co,
Div Penta Intl Corp
Ruger Chemical Co
- ANISIC ACID**
Penta Mfg Co,
Div Penta Intl Corp
Spectrum Chemical Mfg Corp
- ANISIC ALCOHOL, P-METHOXYBENZYL ALCOHOL**
Advanced Synthesis,
Chemical Div
INDOFINE Chemical Co
Penta Mfg Co,
Div Penta Intl Corp
Spectrum Chemical Mfg Corp
- ANISIC ALDEHYDE, TECHNICAL**
Advanced Synthesis,
Chemical Div
Asiameica Group
INDOFINE Chemical Co
Penta Mfg Co,
Div Penta Intl Corp
- ANISOLE**
INDOFINE Chemical Co
Penta Mfg Co,
Div Penta Intl Corp
- ANISOLE, TECHNICAL**
Asiameica Group
INDOFINE Chemical Co
- ANNATTO**
Asiameica Group
Brenntag North America
Ruger Chemical Co
- ANTHRALIN**
Ruger Chemical Co
- ANTIBIOTICS (SEE ALSO SPECIFIC ANTIBIOTICS)**
AIC
Corden Pharma
Ruger Chemical Co
- ANTIBODIES**
Goodwin Biotechnology
Lampire Biological Labs
Novasep
Sekisui XenoTech
- ANTICAKING AGENTS**
Arkema
Brenntag North America
Budenheim USA
Grain Processing Corp
Ruger Chemical Co
- ANTIFOAM AGENTS**
Arkema
Momentive
Performance Materials
- ANTIFOAM AGENTS, FERMENTATION**
Brenntag North America
Momentive
Performance Materials
- ANTIMONY OXIDE**
Asiameica Group
Hexion, Epoxy, Phenolic & Coating Resins Div
Ruger Chemical Co
Soltec Ventures
- ANTIOXIDANTS**
Arkema
Brenntag North America
DSM Nutritional Products LLC
KIC Chemicals
Penta Mfg Co,
Div Penta Intl Corp
Ruger Chemical Co
Seppic,
Pharmaceutical Div
- ANTIPYRINE**
Penta Mfg Co,
Div Penta Intl Corp
Spectrum Chemical Mfg Corp
- ASCORBIC ACID**
AIC
Arkema
Asiameica Group
Barrington Nutritional
BASF Corp, G-ENP
Brenntag North America
Contract
Pharmaceutical Corp
DSM Nutritional Products LLC
Fortitech
George Uhe Co
Helm New York
KIC Chemicals
Ruger Chemical Co
- ASPARAGINE MONOHYDRATE**
AMINO GmbH
ANGUS Chemical Co
Penta Mfg Co,
Div Penta Intl Corp
- ASPARTAME**
Asiameica Group
Brenntag North America
Contract
Pharmaceutical Corp
Helm New York
KIC Chemicals
Ruger Chemical Co
- ASPARTATE SALTS (L AND D,L)**
Ruger Chemical Co
Seppic,
Pharmaceutical Div
- ATIPAMEZOLE**
Spectrum Chemical Mfg Corp
- ATORVASTATIN**
Hetero, Custom
Pharmaceutical Services
- ATROPINE SULFATE**
Ceres Chemical Co
- AURANOFIN**
Spectrum Chemical Mfg Corp
- AZITHROMYCIN**
Hetero, Custom
Pharmaceutical Services
- BACITRACIN**
AIC
Napp Technologies LLC
Ruger Chemical Co
- BACITRACIN ZINC**
AIC
Asiameica Group
Napp Technologies LLC
Ruger Chemical Co
- BACLOFEN**
Piramal Pharma
Solutions
- BACTERICIDES**
Napp Technologies LLC
- BACTERIOSTATS**
Napp Technologies LLC
Ruger Chemical Co
- BALSAM PERU**
KIC Chemicals
Pangaea Sciences
Ruger Chemical Co
- BARIUM ACETATE**
Soltec Ventures
- BARIUM CHLORIDE**
Arkema
- BARIUM FLUORIDE**
Soltec Ventures
- BARIUM HYDROXIDE**
Soltec Ventures
- BARIUM NITRATE**
Soltec Ventures
- BARIUM SULFATE**
AIC
Arkema
Hexion, Epoxy, Phenolic & Coating Resins Div
- BASIL OIL**
KIC Chemicals
Ruger Chemical Co
- BAY OIL**
Asiameica Group
Ruger Chemical Co
- BEESWAX**
Asiameica Group
Brenntag North America
CoKEM Assocs
Croda, Health Care
Mutchler
Pharmaceutical
Ingredients
Ruger Chemical Co
Spectrum Chemical Mfg Corp
- BEESWAX, SYNTHETIC**
Asiameica Group
Brenntag North America
Mutchler
Pharmaceutical
Ingredients
Ruger Chemical Co
Spectrum Chemical Mfg Corp
- BEHENYL ALCOHOL**
Ruger Chemical Co
- BENTONITE**
CoKEM Assocs
- BENZAL ACETONE**
INDOFINE Chemical Co
- BENZALDEHYDE**
Arkema
Brenntag North America
INDOFINE Chemical Co
Penta Mfg Co,
Div Penta Intl Corp
Ruger Chemical Co
- BENZALKONIUM CHLORIDE**
AIC
Lonza
Ruger Chemical Co
- BENZOATE**
Asiameica Group
Brenntag North America
Napp Technologies LLC
- BENZOFURAZAN 1-OXIDE**
Advanced Synthesis,
Chemical Div
Asiameica Group
- BENZOIC ACID**
Asiameica Group
Brenntag North America
KIC Chemicals
Napp Technologies LLC
Ruger Chemical Co
- BENZONATATE**
BASF Corp, G-ENP
Ceres Chemical Co
- BENZOPHENONE**
Arkema
- BENZOTRIFLUORIDE DERIVATIVES**
Kingchem LLC
- BENZOYL PEROXIDE**
Arkema
Asiameica Group
Brenntag North America
Ruger Chemical Co
- BENZYL ACETATE**
Asiameica Group
Helm New York
INDOFINE Chemical Co
Penta Mfg Co,
Div Penta Intl Corp
- BENZYL ALCOHOL**
Arkema
Brenntag North America
INDOFINE Chemical Co
Penta Mfg Co,
Div Penta Intl Corp
Ruger Chemical Co
- BENZYL BENZOATE**
Asiameica Group
Brenntag North America
Helm New York
INDOFINE Chemical Co
Penta Mfg Co,
Div Penta Intl Corp
Ruger Chemical Co
- BENZYL BUTYRATE**
Penta Mfg Co,
Div Penta Intl Corp
- BENZYL CHLORIDE**
Arkema
INDOFINE Chemical Co
- BENZYL CINNAMATE**
Asiameica Group
INDOFINE Chemical Co
Penta Mfg Co,
Div Penta Intl Corp
- BENZYL CYANIDE**
Arkema
INDOFINE Chemical Co
- BENZYL METHYL KETONE**
Asiameica Group
INDOFINE Chemical Co
- BENZYL PROPIONATE**
Penta Mfg Co,
Div Penta Intl Corp
- BENZYL SALICYLATE**
Penta Mfg Co,
Div Penta Intl Corp
- BENZYL SUCCINATE**
Asiameica Group
INDOFINE Chemical Co
- BENZYL VALERATE**
INDOFINE Chemical Co
Penta Mfg Co,
Div Penta Intl Corp
- BENZYLACETONE, 4-PHENYL-2-BUTANONE**
Advanced Synthesis,
Chemical Div
INDOFINE Chemical Co
Penta Mfg Co,
Div Penta Intl Corp
- BENZYLIDENE ACETONE**
Advanced Synthesis,
Chemical Div
Penta Mfg Co,
Div Penta Intl Corp
- BERGAMOT OIL**
KIC Chemicals
Penta Mfg Co,
Div Penta Intl Corp
Ruger Chemical Co
- BETAINE (TRIMETHYLGLYCENE TMG)**
AMINO GmbH
- BETAINE HCL**
Asiameica Group
Napp Technologies LLC
- BETAXOLOL**
Napp Technologies LLC
- BETHANECHOL CHLORIDE**
BASF Corp, G-ENP
Ceres Chemical Co
- BILE ACIDS**
Marcor
Development Corp
Pfizer CentreOne
- BILE SALTS**
American Labs
- BIOADHESIVES**
ProteinLabs
- BIOCIDES**
Arkema
Ruger Chemical Co
- BIOTIN**
ANGUS Chemical Co
Asiameica Group
Contract
Pharmaceutical Corp
DSM Nutritional Products LLC
George Uhe Co
Helm New York
Ruger Chemical Co
Soltec Ventures
- BIS TRIS**
BioSpectra

BIS (TRIMETHYLSILYL) ACETAMIDE Advanced Synthesis, Chemical Div Gelest Regis Custom Pharma	BOTANICAL EXTRACTS Asiamerica Group Fortitech INDOFINE Chemical Co Morre-Tec Industries Ruger Chemical Co	Penta Mfg Co, Div Penta Intl Corp Ruger Chemical Co	CAFFEINE Asiamerica Group Barrington Nutritionals BASF Corp, G-ENP Brenntag North America Ceres Chemical Co Contract Pharmaceutical Corp KIC Chemicals Napp Technologies LLC Pharmsolv LLC Ruger Chemical Co	Mutchler Pharmaceutical Ingredients Ruger Chemical Co	CALCIUM PHOSPHATE Arkema Asiamerica Group Barrington Nutritionals Brenntag North America Budenheim USA Contract Pharmaceutical Corp Fuji Chemical Industries USA Jost Chemical Co Mutchler Pharmaceutical Ingredients Ruger Chemical Co
BISACODYL Napp Technologies LLC	BOVINE ALBUMIN Lampire Biological Labs ProteinLabs Worthington Biochemical Corp	BUTYL BUTYRATE INDOFINE Chemical Co Penta Mfg Co, Div Penta Intl Corp	CAFFEINE AND SODIUM BENZOATE Asiamerica Group Brenntag North America Ruger Chemical Co	CALCIUM CHLORIDE AIC ANGUS Chemical Co Arkema Brenntag North America Hexion, Epoxy, Phenolic & Coating Resins Div Ruger Chemical Co	CALCIUM CITRATE Asiamerica Group Barrington Nutritionals Brenntag North America Contract Pharmaceutical Corp Helm New York Jost Chemical Co Ruger Chemical Co
BISMUTH AIC	BOVINE THROMBIN ProteinLabs	BUTYL CAPROATE Advanced Synthesis, Chemical Div INDOFINE Chemical Co Penta Mfg Co, Div Penta Intl Corp	CAJEPUT OIL (OIL OF CAJEPUT) KIC Chemicals	CALCIUM D-SACCHARATE AIC George Uhe Co Marcor Development Corp	CALCIUM PROPIONATE Brenntag North America Ruger Chemical Co
BISMUTH AMMONIUM CITRATE George Uhe Co	BROMINE Arkema	BUTYL CINNAMATE Asiamerica Group INDOFINE Chemical Co Penta Mfg Co, Div Penta Intl Corp	CALAMINE (ZINC OXIDE) Barrington Nutritionals Ruger Chemical Co	CALCIUM GLUCONATE AIC Asiamerica Group Brenntag North America Ruger Chemical Co Spectrum Chemical Mfg Corp	CALCIUM PYROPHOSPHATE Brenntag North America Budenheim USA Ruger Chemical Co
BISMUTH OXIDE George Uhe Co	BROMOBENZENE Morre-Tec Industries Spectrum Chemical Mfg Corp	BUTYL DIETHANOLAMINE Siemens Building Technologies	CALCIUM ACETATE Brenntag North America Budenheim USA Richman Chemical Ruger Chemical Co	CALCIUM D-SACCHARATE AIC George Uhe Co Marcor Development Corp	CALCIUM SILICATE Mutchler Pharmaceutical Ingredients
BISMUTH OXYCHLORIDE Asiamerica Group George Uhe Co	BROMOETHYLAMINE HYDROBROMIDE Advanced Synthesis, Chemical Div INDOFINE Chemical Co	BUTYL ETHERS Advanced Synthesis, Chemical Div Ruger Chemical Co	CALCIUM ALGINATE Brenntag North America Budenheim USA Richman Chemical Ruger Chemical Co	CALCIUM GLYCEROPHOSPHATE Asiamerica Group Seppic, Pharmaceutical Div	CALCIUM SORBATE Ruger Chemical Co
BISMUTH SALTS AIC Ruger Chemical Co	BROMOFORM Morre-Tec Industries	BUTYL ISOBUTYRATE Penta Mfg Co, Div Penta Intl Corp	CALCIUM AMINO ACID CHELATE Asiamerica Group	CALCIUM GLYCINATE Asiamerica Group Ruger Chemical Co Spectrum Chemical Mfg Corp	CALCIUM STEARATE AIC Arkema Asiamerica Group Barrington Nutritionals KIC Chemicals Mutchler Pharmaceutical Ingredients Ruger Chemical Co
BISMUTH SUBGALLATE AIC	BROMOTRIMETHYL- SILANE Gelest	BUTYL LACTATE Penta Mfg Co, Div Penta Intl Corp	CALCIUM ASCORBATE KIC Chemicals	CALCIUM HYDROXIDE Jost Chemical Co	CALCIUM Sulfate, ANHYDROUS Asiamerica Group Brenntag North America Charles B Chrystal Ruger Chemical Co WA Hammond Drierite Co Ltd
BISMUTH SUBNITRATE AIC George Uhe Co Ruger Chemical Co	BROMPHENIRAMINE MALEATE AIC Asiamerica Group Contract Pharmacal Corp Marcor Development Corp Napp Technologies LLC Ruger Chemical Co	BUTYL PROPIONATE Advanced Synthesis, Chemical Div Penta Mfg Co, Div Penta Intl Corp	CALCIUM BENZOATE Asiamerica Group Brenntag North America	CALCIUM IODIDE Asiamerica Group	CALCIUM Sulfate, DIHYDRATE Charles B Chrystal JRS Pharma WA Hammond Drierite Co Ltd
BISMUTH SUBSALICYLATE AIC Contract Pharmaceutical Corp George Uhe Co Ruger Chemical Co	BROMTHYMOL BLUE Asiamerica Group	BUTYL STEARATE Penta Mfg Co, Div Penta Intl Corp	CALCIUM BORGLUCONATE Asiamerica Group	CALCIUM LACTATES Asiamerica Group Brenntag North America Jost Chemical Co Ruger Chemical Co Spectrum Chemical Mfg Corp	CALCIUM Sulfate, THIOGLYCOLATE Ruger Chemical Co Spectrum Chemical Mfg Corp
BISMUTH TRIBROMOPHENATE Jet Pulverizer Co	BUCLIZINE Asiamerica Group	BUTYL UNDECYLENATE Advanced Synthesis, Chemical Div Penta Mfg Co, Div Penta Intl Corp	CALCIUM BROMIDE Morre-Tec Industries	CALCIUM LEVULINATE Spectrum Chemical Mfg Corp	CALCIUM PANTOTHENATE Asiamerica Group BASF Corp, G-ENP Brenntag North America DSM Nutritional Products LLC Helm New York
BIXIN INDOFINE Chemical Co	BUCLIZINE HCL Asiamerica Group	BUTYLATED HYDROXYANISOLE Brenntag North America Mutchler Pharmaceutical Ingredients Penta Mfg Co, Div Penta Intl Corp Ruger Chemical Co	CALCIUM CARBONATE Arkema Asiamerica Group Barrington Nutritionals Brenntag North America Charles B Chrystal Chemtech Specialties Contract Pharmaceutical Corp Jost Chemical Co Momentive Performance Materials Mutchler Pharmaceutical Ingredients Specialty Minerals SPI Pharma	CALCIUM PEROXIDE Asiamerica Group Brenntag North America	CAMPHOR Asiamerica Group Ruger Chemical Co
BLOCKING AGENTS Gelest Lampire Biological Labs	BUPIVACAINE HCL Asiamerica Group BASF Corp, G-ENP Cambrex Pharma, Cambrex Karliskoga Ceres Chemical Co Napp Technologies LLC Ruger Chemical Co	BUTYLATED HYDROXYTOLUENE Penta Mfg Co, Div Penta Intl Corp	CALCIUM CARBONATE, DIRECT- COMPRESSION SPI Pharma	CALCIUM PEROXIDE Asiamerica Group Brenntag North America	CAMPHOR OIL KIC Chemicals Penta Mfg Co, Div Penta Intl Corp
BLOOD DERIVATIVES Biologos Lampire Biological Labs Worthington Biochemical Corp	BUPRENORPHINE HCL Ceres Chemical Co Johnson Matthey, Pharmaceutical Materials Siegfried (USA)	BUTYL PARABEN (BUTYL-P-HYDROXY- BENZOATE) Mutchler Pharmaceutical Ingredients Napp Technologies LLC Penta Mfg Co, Div Penta Intl Corp Ruger Chemical Co	CADMIUM Ruger Chemical Co Soltec Ventures		
BORATES Asiamerica Group Rohm & Haas Chemicals LLC, Process Chemicals Div Ruger Chemical Co	BUSPIRONE HCL Asiamerica Group	BUTYRIC ACID Penta Mfg Co, Div Penta Intl Corp	CADMIUM NITRATE Soltec Ventures		
BORAX Arkema Brenntag North America Ruger Chemical Co	BUTABARBITAL, SODIUM, SALT Spectrum Chemical Mfg Corp				
BORIC ACID Asiamerica Group Brenntag North America Ruger Chemical Co	BUTALBITAL Asiamerica Group Pisgah Labs Siegfried (USA)				
BORON TRIFLUORIDE AND DERIVATIVES Advanced Synthesis, Chemical Div Arkema Regis Custom Pharma Richman Chemical Ruger Chemical Co	BUTENEDIOL Asiamerica Group				

For vendor contact information, see Company Directory section.

- CAMPHOR, SYNTHETIC**
Asiameica Group
George Uhe Co
Penta Mfg Co,
Div Penta Intl Corp
Ruger Chemical Co
- CAPRIC ACID (DECANOIC)**
Arista Industries
Brenntag North America
KIC Chemicals
Penta Mfg Co,
Div Penta Intl Corp
Ruger Chemical Co
- CAPROIC ACID (HEXANOIC)**
Arista Industries
Brenntag North America
KIC Chemicals
Penta Mfg Co,
Div Penta Intl Corp
Ruger Chemical Co
- CAPRYL ALCOHOL (OCTANOL)**
Penta Mfg Co,
Div Penta Intl Corp
Ruger Chemical Co
- CAPRYLATE**
Gattefossé USA,
Pharmaceutical Div
Napp Technologies LLC
Ruger Chemical Co
- CAPRYLIC ACID (OCTANOIC)**
Arista Industries
KIC Chemicals
Napp Technologies LLC
Penta Mfg Co,
Div Penta Intl Corp
- CAPSAICIN**
Advanced Synthesis,
Chemical Div
George Uhe Co
INDOFINE Chemical Co
Penta Mfg Co,
Div Penta Intl Corp
Richman Chemical
Ruger Chemical Co
Spectrum Chemical Mfg Corp
- CAPTOPRIL**
Spectrum Chemical Mfg Corp
- CARAMEL**
Brenntag North America
Ruger Chemical Co
Spectrum Chemical Mfg Corp
- CARAWAY**
Ruger Chemical Co
- CARAWAY OIL**
KIC Chemicals
Penta Mfg Co,
Div Penta Intl Corp
- CARBAMAZEPINE**
BASF Corp, G-ENP
Ceres Chemical Co
Ruger Chemical Co
Spectrum Chemical Mfg Corp
- CARBETAPENTANE CITRATE**
Contract
Pharmal Corp
- CARBINOXARMIN MALEATE**
Contract
Pharmal Corp
George Uhe Co
Napp Technologies LLC
- CARBOMER**
Brenntag North America
Lubrizol Advanced
Materials
Mutchler
Pharmaceutical
Ingredients
Ruger Chemical Co
- CARBON DIOXIDE**
Airgas
BOC, A member of
The Linde Group
Praxair
- CARBON DISULFIDE**
Arkema
Ruger Chemical Co
- CARBON TETRACHLORIDE**
Advanced Synthesis,
Chemical Div
Arkema
Asiameica Group
Ruger Chemical Co
- CARBON, ACTIVATED (CHARCOAL, ACTIVATED)**
AAF Flanders
Advanced Synthesis,
Chemical Div
Asiameica Group
Flanders Corp,
Containment Products
Jacobi Carbons
Ruger Chemical Co
- CARBONATES**
Barrington Nutritionals
- CARBOXYLIC ACIDS AND SALTS, PERFLUORINATED**
Kingchem LLC
- CARBOXYMETHYL-CELLULOSE SODIUM**
Ashland,
Pharmaceutical
Barrington Nutritionals
JRS Pharma
Mutchler
Pharmaceutical
Ingredients
- CARISOPRODOL**
BASF Corp, G-ENP
Ceres Chemical Co
- CARMINE**
Brenntag North America
Ruger Chemical Co
- CARMUSTINE**
Johnson Matthey,
Pharmaceutical
Materials
- CAROTENOID COLORS**
BASF Corp, G-ENP
Brenntag North America
DSM Nutritional
Products LLC
- CARRAGEENAN**
Brenntag North America
CP Kelco,
A JM Huber Co
FMC Corp,
FMC BioPolymer
Gumix Intl
Ruger Chemical Co
TIC Gums
- CARRVONE**
Penta Mfg Co,
Div Penta Intl Corp
- CASCARA SAGRADA**
Contract
Pharmal Corp
- CASEIN**
Hexion, Epoxy, Phenolic
& Coating Resins Div
ProteinLabs
Ruger Chemical Co
- CASEIN HYDROLYSATE**
American Labs
Kerry
Marcor
Development Corp
Ruger Chemical Co
- CASEINATES**
Brenntag North America
Ruger Chemical Co
- CASSIA OIL**
Arista Industries
Penta Mfg Co,
Div Penta Intl Corp
- CASTOR OIL**
Arista Industries
Arkema
Asiameica Group
BASF Corp, G-ENP
Brenntag North America
KIC Chemicals
Morre-Tec Industries
Mutchler
Pharmaceutical
Ingredients
Penta Mfg Co,
Div Penta Intl Corp
Ruger Chemical Co
- CATALASE**
Brenntag North America
ProteinLabs
Worthington
Biochemical Corp
- CATECHOL**
Ruger Chemical Co
- CEDARLEAF OIL**
Arista Industries
KIC Chemicals
Penta Mfg Co,
Div Penta Intl Corp
- CEDARWOOD OIL**
KIC Chemicals
Penta Mfg Co,
Div Penta Intl Corp
- CELLULOSE ACETATE**
Colorcon
Hexion, Epoxy, Phenolic
& Coating Resins Div
- CELLULOSE ACETATE BUTYRATE**
Hexion, Epoxy, Phenolic
& Coating Resins Div
- CELLULOSE ESTERS**
Ashland,
Pharmaceutical
Brenntag North America
Colorcon
CP Kelco,
A JM Huber Co
Hexion, Epoxy, Phenolic
& Coating Resins Div
Ruger Chemical Co
- CELLULOSE ETHERS**
Ashland,
Pharmaceutical
Colorcon
Dow Pharma Solutions,
Dow Advanced
Materials
Kerry
Mutchler
Pharmaceutical
Ingredients
- CELLULOSE, ETHYL (DISPERSION)**
Brenntag North America
Colorcon
Ruger Chemical Co
- CELLULOSE, FLOC**
JRS Pharma GmbH &
Co KG
- CELLULOSE, MICROCRYSTALLINE**
AIC
Asahi Kasei Chemical
Corp/Asahi Kasei
America, Functional
Additives Div
Asiameica Group
Barrington Nutritionals
Brenntag North America
FMC Corp,
FMC BioPolymer
Glatt Pharmaceutical
Services
Hexion, Epoxy, Phenolic
& Coating Resins Div
JRS Pharma
JRS Pharma GmbH &
Co KG
Mutchler
Pharmaceutical
Ingredients
Ruger Chemical Co
TIC Gums
- CELLULOSE, POWDERED**
Colorcon
FMC Corp,
FMC BioPolymer
JRS Pharma
JRS Pharma GmbH &
Co KG
Multi-Kem Corp
Mutchler
Pharmaceutical
Ingredients
Ruger Chemical Co
TIC Gums
- CELLULOSE, SILICIFIED MICROCRYSTALLINE**
AIC
JRS Pharma
Mutchler
Pharmaceutical
Ingredients
- CERAMIDES**
Ruger Chemical Co
- CETYL ALCOHOL (HEXADECANOL)**
Brenntag North America
Croda, Health Care
KIC Chemicals
Penta Mfg Co,
Div Penta Intl Corp
Ruger Chemical Co
- CETYL ESTERS**
Brenntag North America
Croda, Health Care
Ruger Chemical Co
- CETYL PALMITATE**
Advanced Synthesis,
Chemical Div
Brenntag North America
Croda, Health Care
Gattefossé USA,
Pharmaceutical Div
Penta Mfg Co,
Div Penta Intl Corp
Ruger Chemical Co
- CETYL PYRIDINIUM CHLORIDE**
Advanced Synthesis,
Chemical Div
Ruger Chemical Co
- CETYLDIMETHYL-BENZYLAMMONIUM CHLORIDE (SURFACTANT)**
Ruger Chemical Co
- CHELATING AGENTS**
Brenntag North America
Ruger Chemical Co
- CHITIN**
Asiameica Group
Ruger Chemical Co
- CHITOSAN**
Asiameica Group
Brenntag North America
Marcor
Development Corp
Richman Chemical
Ruger Chemical Co
- CHLORHEXIDINE BASE**
Napp Technologies LLC
- CHLORHEXIDINE DIACETATE**
AIC
George Uhe Co
Napp Technologies LLC
- CHLORHEXIDINE DIGLUCONATE**
AIC
George Uhe Co
Napp Technologies LLC
Ruger Chemical Co
- CHLORHEXIDINE GLUCONATE**
AIC
- CHLORHEXIDINE HCL**
AIC
George Uhe Co
Napp Technologies LLC
Ruger Chemical Co
- CHLORINE**
Airgas
BOC, A member of
The Linde Group
- CHLOROBUTANOL**
Advanced Synthesis,
Chemical Div
Ruger Chemical Co
Sekisui XenoTech
- CHLOROFORM**
Arkema
- CHLOROFORMATES**
Arkema
- CHLOROMETHYL-TRIMETHYLSILANE**
Momentive
Performance Materials
- CHLOROPHYLL**
Ruger Chemical Co
- CHLOROTHYMOL**
Penta Mfg Co,
Div Penta Intl Corp
- CHLOROXYLENOL**
Asiameica Group
- CHLORPHENIRAMINE**
AIC
Asiameica Group
Contract
Pharmal Corp
Napp Technologies LLC
Ruger Chemical Co
- CHLORPHENIRAMINE MALEATE**
AIC
Asiameica Group
Contract
Pharmal Corp
Napp Technologies LLC
Ruger Chemical Co
- CHOLESTEROL**
CoKEM Assocs
Croda, Health Care
Ruger Chemical Co
- CHOLIC ACID**
American Labs
- CHOLINE**
AIC
Arkema
Asiameica Group
Contract
Pharmal Corp
Ruger Chemical Co
Vernon Walden
- CHOLINE CHLORIDE**
AIC
ANGUS Chemical Co
Brenntag North America
- CHOLINE DIHYDROGEN CITRATE**
AIC
- CHOLINE SALICYLATE**
BASF Corp, G-ENP
Ceres Chemical Co
- CHOLINE SALTS**
ANGUS Chemical Co
- CHONDROITIN SULFATE**
American Labs
Asiameica Group
Barrington Nutritionals
Brenntag North America
Contract
Pharmal Corp
George Uhe Co
Helm New York
Marcor
Development Corp
Ruger Chemical Co
- CHORIONIC GONADOTROPIN**
Contract
Pharmal Corp
- CHROMIUM COMPOUNDS**
Asiameica Group
Soltec Ventures
- CHYMOTRYPSIN**
American Labs
Asiameica Group
Marcor
Development Corp
Pangaea Sciences
Worthington
Biochemical Corp
- CICLOPIROX ETHANOLAMINE SALT**
Napp Technologies LLC
- CINNAMATE**
Asiameica Group
Brenntag North America
Ruger Chemical Co
- CINNAMIC ACID**
INDOFINE Chemical Co
Penta Mfg Co,
Div Penta Intl Corp
Ruger Chemical Co

CINNAMIC ALCOHOL
INDOFINE Chemical Co
Penta Mfg Co,
Div Penta Intl Corp
Ruger Chemical Co

CINNAMIC ALDEHYDE
Penta Mfg Co,
Div Penta Intl Corp

CINNAMON
Ruger Chemical Co

CINNAMON OIL
Arista Industries
KIC Chemicals
Penta Mfg Co,
Div Penta Intl Corp
Ruger Chemical Co

CINNARIZINE
INDOFINE Chemical Co

CIPROFLOXACIN HCL
Neuland Labs Ltd

CIS-2,6-DIMETHYL-PIPERIDINE
Asiameica Group

CISPLATIN
Hetero, Custom
Pharmaceutical
Services

CITRAL
Penta Mfg Co,
Div Penta Intl Corp

CITRIC ACID
Asiameica Group
Barrington Nutritionals
Brenntag North America
Helm New York
KIC Chemicals
Mutchler
Pharmaceutical
Ingredients
Penta Mfg Co,
Div Penta Intl Corp
Ruger Chemical Co

CITRONELLA OIL
KIC Chemicals
Penta Mfg Co,
Div Penta Intl Corp
Ruger Chemical Co

CITRUS PECTIN
KIC Chemicals

CLEANERS
Alconox
Clordisys Solutions
Decon Labs
George Uhe Co
International Products
Corp
ITW Texwipe
MultiTherm LLC

CLEMASTINE HYDROGEN FUMARATE
Marcor
Development Corp
Sekisui XenoTech

CLINDAMYCIN HCL
AIC

CLINDAMYCIN PHOSPHATE
AIC

CLIOQUINOL
Napp Technologies LLC

CLONAZEPAM
Ceres Chemical Co

CLOTRIMAZOLE
AIC
Asiameica Group
Napp Technologies LLC
Ruger Chemical Co

CLOVE OIL
Arista Industries
KIC Chemicals
Penta Mfg Co,
Div Penta Intl Corp

COAL TAR
Asiameica Group
Penta Mfg Co,
Div Penta Intl Corp
Ruger Chemical Co

COATINGS, TABLET, AQUEOUS
Ashland,
Pharmaceutical
BASF Corp, G-ENP
Colorcon
Contract
Pharmaceutical Corp
CP Kelco,
A JM Huber Co
Emerson Resources
Evonik Corp,
Health Care
FMC Corp,
FMC BioPolymer
Grain Processing Corp
International Specialty
Products
JRS Pharma
Kerry
Nicos Group
Ortec
Roquette
Ruger Chemical Co
Seppic,
Pharmaceutical Div

COATINGS, TABLET, ENTERIC
Ashland,
Pharmaceutical
Asiameica Group
BASF Corp, G-ENP
Colorcon
Contract
Pharmaceutical Corp
Emerson Resources
Evonik Corp, Health Care
FMC Corp,
FMC BioPolymer
International Specialty
Products
Kerry
Nicos Group
Ortec
Ruger Chemical Co
Torpac

COATINGS, TABLET, SOLVENT-BASED
BASF Corp, G-ENP
Colorcon
Emerson Resources
Evonik Corp,
Health Care
Kerry
Nicos Group

COATINGS, TABLET, SUGAR
Colorcon

COBALT SALTS
Soltec Ventures

COCOA
Brenntag North America
Ruger Chemical Co

COCOA BUTTER
Arista Industries
Napp Technologies LLC

COCONUT FATTY ACIDS
Arista Industries
Brenntag North America

KIC Chemicals
Ruger Chemical Co

COD (FISH) LIVER OIL CONCENTRATE
Arista Industries
Asiameica Group
George Uhe Co
Ruger Chemical Co

CODEINE
Johnson Matthey,
Pharmaceutical
Materials
Ruger Chemical Co

CODEINE PHOSPHATE
Asiameica Group
Johnson Matthey,
Pharmaceutical
Materials
Siegfried (USA)

COELENTERAZINE
Regis Custom Pharma

COLLAGEN
Arista Industries
Asiameica Group
Gattefossé USA,
Pharmaceutical Div
Lampire Biological Labs
PB Leiner USA
ProteinLabs
Ruger Chemical Co
Suheung America Corp
Vernon Walden
Worthington
Biochemical Corp

COLLAGEN HYDROLYSATE
American Labs
Arista Industries
Asiameica Group
Gattefossé USA,
Pharmaceutical Div
Marcor
Development Corp
PB Leiner USA
Suheung America Corp

COLLODION
Penta Mfg Co,
Div Penta Intl Corp

COLOR DISPERSIONS
Brenntag North America
Seppic,
Pharmaceutical Div

COLORS, CERTIFIED
Brenntag North America
Ruger Chemical Co

COLORS, NATURAL
Asiameica Group
Brenntag North America
Ruger Chemical Co

COMPLEX CARBOHYDRATES (SEE ALSO SPECIFIC CARBOHYDRATES)
Grain Processing Corp
Ruger Chemical Co

CONTROLLED SUBSTANCE DRUGS - TAPENTADOL
Piramal Pharma
Solutions

COPPER ACETATE
Asiameica Group

COPPER BROMIDE
Morre-Tec Industries

COPPER CARBONATE
Asiameica Group
Jost Chemical Co

COPPER CITRATE
Jost Chemical Co

COPPER GLUCONATE
Asiameica Group
Jost Chemical Co
Vernon Walden

COPPER GLYCINATE
Asiameica Group

COPPER NITRATE
Asiameica Group

COPPER OXIDE
Jost Chemical Co

COPPER SULFATE
AIC
Asiameica Group
George Uhe Co
Helm New York
Jost Chemical Co
Ruger Chemical Co

CORIANDER OIL
Brenntag North America
George Uhe Co
Ruger Chemical Co

CORN OIL
Arista Industries
Brenntag North America
Croda, Health Care
KIC Chemicals
Ruger Chemical Co

CORN STARCH, PREGELATINIZED
Brenntag North America
Colorcon
Grain Processing Corp
Mutchler
Pharmaceutical
Ingredients
Roquette
Ruger Chemical Co

CORN SYRUP SOLIDS
Grain Processing Corp

CORTISONE
AIC
Ruger Chemical Co

CORTISONE ACETATE
AIC
Ruger Chemical Co

COSMETIC CHEMICALS
Arkema
Brenntag North America
Croda, Health Care
DSM Nutritional
Products LLC
Gattefossé USA,
Pharmaceutical Div
Lonza
Momentive
Performance Materials
Napp Technologies LLC
Ortec
Regis Custom Pharma
Roquette
Ruger Chemical Co

COTTONSEED HYDROLYSATE
Kerry

COTTONSEED OIL
Arista Industries
Croda, Health Care
KIC Chemicals

Penta Mfg Co,
Div Penta Intl Corp
Ruger Chemical Co

COTTONSEED OIL, HYDROGENATED
ABITEC Corp
Arista Industries
JRS Pharma GmbH &
Co KG
Mutchler
Pharmaceutical
Ingredients
Ruger Chemical Co

COUMARIN
Asiameica Group

CREAM BASES
CoKEM Assocs
Gattefossé USA,
Pharmaceutical Div
Napp Technologies LLC

CREATINE MONOHYDRATE
Advanced Synthesis,
Chemical Div
Asiameica Group
Brenntag North America
Contract
Pharmaceutical Corp
George Uhe Co
Jet Pulverizer Co
Marcor
Development Corp
Pharmsolv LLC
Richman Chemical

CROMOLYN SODIUM SALT
Napp Technologies LLC

CROSCARMELLOSE SODIUM
Asahi Kasei Chemical
Corp/Asahi Kasei
America, Functional
Additives Div
Asiameica Group
Barrington Nutritionals
DFE Pharma
FMC Corp,
FMC BioPolymer
JRS Pharma
JRS Pharma GmbH &
Co KG
Mutchler
Pharmaceutical
Ingredients

CROSPVIDONE
Ashland,
Pharmaceutical
Asiameica Group
BASF Corp, G-ENP
International Specialty
Products
Mutchler
Pharmaceutical
Ingredients

CROSS-LINKED CARBOXYMETHYL CELLULOSE
Asiameica Group
FMC Corp,
FMC BioPolymer
JRS Pharma GmbH &
Co KG
Mutchler
Pharmaceutical
Ingredients
Ruger Chemical Co

CUPFERRON
Richman Chemical

CUPRIC SULFATE
Jost Chemical Co
Ruger Chemical Co

CYANOACETIC ACID
Asiameica Group

CYANOGEN BROMIDE
FAR Chemical

CYCLOBENZAPRINE HCL
Aptalis Pharmaceutical
Technologies

CYCLODEXTRINS
Ashland,
Pharmaceutical
Roquette

CYCLOHEXANECARBONYL CHLORIDE
Advanced Synthesis,
Chemical Div

CYCLOHEXANEPROPANOIC ACID
Advanced Synthesis,
Chemical Div

CYCLOHEXANONE
Brenntag North America
Penta Mfg Co,
Div Penta Intl Corp

CYCLOHEXYL BROMIDE
Advanced Synthesis,
Chemical Div
Arkema
FAR Chemical
Morre-Tec Industries

CYCLOHEXYL ETHYL ALCOHOL
Advanced Synthesis,
Chemical Div
Penta Mfg Co,
Div Penta Intl Corp

CYCLOPENTANONE
Advanced Synthesis,
Chemical Div
Penta Mfg Co,
Div Penta Intl Corp
Richman Chemical

CYCLOPHOSPHAMIDE
Advanced Synthesis,
Chemical Div
Hetero, Custom
Pharmaceutical
Services

CYSTEAMINE HCL
Asiameica Group
Richman Chemical

CYSTEINE
Asiameica Group
Brenntag North America
Marcor
Development Corp
Pangaea Sciences
Ruger Chemical Co

CYTOCHROME C
George Uhe Co

D-(-)-MANDELIC ACID
Morre-Tec Industries

D-MANNITOL
Roquette
SPI Pharma

D-MENTHOL
Asiameica Group
George Uhe Co
Ruger Chemical Co

D-PHENYLGLYCINE
Regis Custom Pharma
Richman Chemical

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ETHYL 4-PIPERIDIN-ECARBOXYLATE Advanced Synthesis, Chemical Div	Dow Pharma Solutions, Dow Advanced Materials Ruger Chemical Co	ETHYL PHENYL ACETATE, TECHNICAL Arkema Penta Mfg Co, Div Penta Intl Corp	ETHYLENEDIAMINE Arkema	FATTY ALCOHOL SULFATES Croda, Health Care Ruger Chemical Co	FERMENTATION NUTRIENTS Marcor Development Corp
ETHYL 4-PYRIDIN- ECARBOXYLATE Advanced Synthesis, Chemical Div	ETHYL CELLULOSE (DISPERSION) Brenntag North America Ruger Chemical Co	ETHYL UNDECANOATE Advanced Synthesis, Chemical Div	ETHYLENEDIAMINE- TETRAACETIC ACID, POWDER Brenntag North America	FATTY ALCOHOLS Arista Industries Brenntag North America CoKEM Assocs Croda, Health Care Gattefossé USA, Pharmaceutical Div KIC Chemicals Mutchler Pharmaceutical Ingredients Ruger Chemical Co	FERRIC AMMONIUM CITRATE Asiamerica Group Jost Chemical Co
ETHYL 4,4,4-TRI- FLUOROACETO ACETATE INDOFINE Chemical Co	ETHYL CROTONATE Advanced Synthesis, Chemical Div	ETHYL VANILLIN KIC Chemicals	ETHYLPARABEN Napp Technologies LLC Ruger Chemical Co	FATTY OILS Arista Industries CoKEM Assocs Croda, Health Care DSM Nutritional Products LLC Mutchler Pharmaceutical Ingredients Ruger Chemical Co	FERRIC AMMONIUM SULFATE Ruger Chemical Co
ETHYL ACETATE Brenntag North America	ETHYL CYCLOHEX- ANE CARBOXYLATE Advanced Synthesis, Chemical Div	ETHYLENE DICHLORIDE Asiamerica Group Brenntag North America	EUCALYPTOL Arista Industries Ruger Chemical Co	FENNEL OIL KIC Chemicals Ruger Chemical Co	FERRIC CHLORIDE Advanced Synthesis, Chemical Div Brenntag North America Ruger Chemical Co
ETHYL ACETOACETATE Advanced Synthesis, Chemical Div Lonza	ETHYL LACTATE Advanced Synthesis, Chemical Div Brenntag North America Penta Mfg Co, Div Penta Intl Corp	ETHYLENE GLYCOL Asiamerica Group Brenntag North America Ruger Chemical Co	EUCALYPTUS OIL Arista Industries Asiamerica Group KIC Chemicals Ruger Chemical Co	FENOFIBRATE Hetero, Custom Pharmaceutical Services Novasep	FERRIC CITRATE Jost Chemical Co
ETHYL ALCOHOL Biologos Brenntag North America Decon Labs Grain Processing Corp Ruger Chemical Co	ETHYL LAURATE Brenntag North America	ETHYLENE GLYCOL MONOSTEARATE Asiamerica Group Brenntag North America Gattefossé USA, Pharmaceutical Div Ruger Chemical Co	EUGENOL Arista Industries KIC Chemicals	FENTANYL CITRATE Johnson Matthey, Pharmaceutical Materials	FERRIC NITRATE Asiamerica Group
ETHYL AMI- NOBENZOATE (BENZOCAINE) AIC Napp Technologies LLC	ETHYL MALONATE Advanced Synthesis, Chemical Div	ETHYLENE OXIDE Advanced Synthesis, Chemical Div Airgas Asiamerica Group BOC, A member of The Linde Group Brenntag North America Clordisys Solutions	FATTY ACID AMIDES ABITEC Corp Croda, Health Care		FERRIC OXIDE, RED Asiamerica Group Charles B Chrystal Ruger Chemical Co Soltec Ventures
ETHYL BUTYL KETONE Arkema Ruger Chemical Co	ETHYL OLEATE Croda, Health Care		FATTY ACID ESTERS ABITEC Corp Croda, Health Care Hexion, Epoxy, Phenolic & Coating Resins Div KIC Chemicals Napp Technologies LLC		FERRIC PYROPHOSPHATE Asiamerica Group Budenheim USA
ETHYL CELLULOSE Ashland, Pharmaceutical Brenntag North America	ETHYL OXALYL CHLORIDE Advanced Synthesis, Chemical Div		FATTY ALCOHOL ETHERS ABITEC Corp Brenntag North America Croda, Health Care Ruger Chemical Co		FERROUS AMMONIUM SULFATE Jost Chemical Co
	ETHYL P-HYDROXY- BENZOATE INDOFINE Chemical Co Napp Technologies LLC				FERROUS FUMARATE Asiamerica Group

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Contract
Pharmaceutical Corp
Jost Chemical Co

FERROUS GLUCONATE
Asiamerica Group
Brenntag North America
Jost Chemical Co

FERROUS LACTATE
Asiamerica Group
Jost Chemical Co

FERROUS SULFATE
Asiamerica Group
Brenntag North America
Contract
Pharmaceutical Corp

FIBRONECTIN
ProteinLabs

FILM COATINGS
Barrington Nutritionals
BASF Corp, G-ENP
Emerson Resources
Evonik Corp,
Health Care
Grain Processing Corp
International Specialty
Products
Kerry
Mutchler
Pharmaceutical
Ingredients

Mylan Technologies
Roquette
Ruger Chemical Co
Seppic,
Pharmaceutical Div
TIC Gums

FLAVOR ENHANCERS
Asiamerica Group
Brenntag North America
Foote & Jenks Corp
Virginia Dare

FLAVORS
Asiamerica Group
Foote & Jenks Corp
Kerry
Ruger Chemical Co
Virginia Dare

FLAVORS & FRAGRANCES
Asiamerica Group

FLUFENAMIC ACID
Asiamerica Group

FLUNARIZINE DIHYDROCHLORIDE
INDOFINE Chemical Co

FLUORINE DERIVATIVES, ALIPHATIC
INDOFINE Chemical Co
Scott Medical Products

FLUORINE DERIVATIVES, AROMATIC
INDOFINE Chemical Co
Scott Medical Products

FLUOROURACIL
Ceres Chemical Co
George Uhe Co
INDOFINE Chemical Co

FLUOXETINE HCL
Asiamerica Group
National Medical
Services,
Biopharmaceutical
Support Services
Siegfried (USA)

FLURAZEPAM 2 HCL
Asiamerica Group

FOLIC ACID
Asiamerica Group
Brenntag North America
Contract
Pharmaceutical Corp
DSM Nutritional
Products LLC
George Uhe Co
Helm New York
Ruger Chemical Co

FOLINIC ACID CALCIUM SALT PENTAHYDRATE
George Uhe Co

FORMALDEHYDE
Clordisys Solutions
Hexion, Epoxy, Phenolic
& Coating Resins Div

FORMAMIDE
Clordisys Solutions

FORMATES
Brenntag North America

FRUCTOSE
Barrington Nutritionals
Brenntag North America
Roquette
Ruger Chemical Co
SPI Pharma

FULLER'S EARTH
Ruger Chemical Co

FUMARIC ACID
AIC
Brenntag North America
KIC Chemicals
Ruger Chemical Co

FUNGICIDES
Clordisys Solutions
Ruger Chemical Co

GALACTOSE
BioSpectra
George Uhe Co
Marcor
Development Corp
Mutchler
Pharmaceutical
Ingredients

GALLIC ACID
Asiamerica Group
Ruger Chemical Co

GELATIN
Arista Industries
Brenntag North America
PB Leiner USA
ProteinLabs
Ruger Chemical Co
Suheung
America Corp

GELATIN, HYDROLYZED
Arista Industries
Asiamerica Group
Brenntag North America
Contract
Pharmaceutical Corp
Marcor
Development Corp
PB Leiner USA
Ruger Chemical Co
Suheung
America Corp

GELATION AGENTS
Brenntag North America
CP Kelco,
A JM Huber Co
FMC Corp,
FMC BioPolymer
PB Leiner USA
Ruger Chemical Co

GELLAN GUM
Brenntag North America

CP Kelco,
A JM Huber Co

GENTIAN VIOLET

Ruger Chemical Co

GIBBERELIC ACID
Advanced Synthesis,
Chemical Div

GLICLAZIDE
DSM Pharmaceuticals
Products

GLIPIZIDE
INDOFINE Chemical Co

GLUCONO DELTA LACTONE
Brenntag North America
Charles B Chrystal
Lonza
Roquette

GLUCOSAMINE HCL
Barrington Nutritionals

GLUCOSAMINE SULFATE SALT
Asiamerica Group
Barrington Nutritionals
Contract
Pharmaceutical Corp
George Uhe Co
Marcor
Development Corp
Richman Chemical

GLUCOSE
Asiamerica Group
Brenntag North America
Contract
Pharmaceutical Corp
Roquette
Ruger Chemical Co

GLUCOSE POLYMERS
Roquette

GLUCOSE SYRUP
Asiamerica Group
Brenntag North America
Roquette
Ruger Chemical Co

GLUTAMIC ACID AND SALTS
AMINO GmbH
BioSpectra
Napp Technologies LLC

GLUTAMIC ACID HCL
Asiamerica Group
Contract
Pharmaceutical Corp
Napp Technologies LLC
Ruger Chemical Co

GLUTARALDEHYDE
Bangs Labs

GLYCERIN
Arista Industries
KIC Chemicals

GLYCEROL MONOLAUATE
ABITEC Corp
Brenntag North America
Gattefossé USA,
Pharmaceutical Div
Lonza
Ruger Chemical Co

GLYCEROL MONOLEATE
ABITEC Corp
Brenntag North America
Croda, Health Care
Gattefossé USA,
Pharmaceutical Div
KIC Chemicals

Lonza
Ruger Chemical Co

GLYCEROPHOSPHATES
Asiamerica Group
Brenntag North America
Seppic,
Pharmaceutical Div
Vernon Walden

GLYCERYL MONOSTEARATE
ABITEC Corp
KIC Chemicals

GLYCINE
AMINO GmbH
Asiamerica Group
Brenntag North America
Evonik Corp,
Health Care
Ruger Chemical Co

GLYCINE ETHYL ESTER HCL
Advanced Synthesis,
Chemical Div

GLYCINE METHYL ESTER HCL
Advanced Synthesis,
Chemical Div

GLYCOL ETHERS
Hexion, Epoxy, Phenolic
& Coating Resins Div

GLYCOLS AND RELATED COMPOUNDS
Ruger Chemical Co

GLYCOPYRROLATE
Ceres Chemical Co

GLYCYRRHIZA
MAFCO
Worldwide Corp
Ruger Chemical Co

GLYCYRRHIZIC ACID
Asiamerica Group
MAFCO
Worldwide Corp
Ruger Chemical Co

GRAPE SKIN EXTRACT
Asiamerica Group
Brenntag North America
Ruger Chemical Co

GUAIACOL GLYCERYL ETHER (GUAIFENESIN)
AIC
Napp Technologies LLC

GUANIDINE
AIC
Asiamerica Group
Ruger Chemical Co

GUANIDINE CARBONATE
Asiamerica Group
Kingchem LLC
Ruger Chemical Co

GUANIDINE HCL
BioSpectra

GUANIDINE NITRATE
Asiamerica Group

GUANIDINE THIOCYANATE
BioSpectra

GUANINE
George Uhe Co

GUAR GUM
AIC
Asiamerica Group
Brenntag North America
CP Kelco,
A JM Huber Co
Gumix Intl
KIC Chemicals
Momentive
Performance Materials
Multi-Kem Corp
Ruger Chemical Co
TIC Gums

GUM BENZOIN (BENZOIN USP)
Pangaea Sciences

HALAZONE
Asiamerica Group
Ceres Chemical Co

HALOGENATED ACYL HALIDES
Advanced Synthesis,
Chemical Div
Morre-Tec Industries

HALOGENATED ALKANES
Advanced Synthesis,
Chemical Div
Kingchem LLC
Morre-Tec Industries

HALOGENATED CARBOXYLIC ACIDS
Advanced Synthesis,
Chemical Div
Asiamerica Group
Kingchem LLC
Morre-Tec Industries

HALOGENATED HYDRINS
Advanced Synthesis,
Chemical Div

HALOPERIDOL
INDOFINE Chemical Co

HECTORITE
CoKEM Assocs
Ruger Chemical Co

HEPES
AAF Flanders

HEPES SODIUM
BioSpectra

HESPERIDIN
Asiamerica Group

HEXAMETHYL-DISILANE
Gelest
Momentive
Performance Materials

HEXAMETHYL-DISILAZANE
Momentive
Performance Materials

HEXYL GLYCOL ETHERS
Advanced Synthesis,
Chemical Div

HEXYL NICOTINATE
Advanced Synthesis,
Chemical Div
Seppic,
Pharmaceutical Div

HEXYL SALICYLATE
INDOFINE Chemical Co

HEXYLACETATE
Advanced Synthesis,
Chemical Div

HIGHLY POTENT API MANUFACTURING
Evonik Corp,
Health Care
Novasep

HIPPURIC ACID
INDOFINE Chemical Co

HISTIDINE
AMINO GmbH
Asiamerica Group

HOLMIUM OXIDE
Soltec Ventures

HORMONES
Pfizer CentreOne
Ruger Chemical Co

HUMAN PLACENTA PROTEIN
ProteinLabs

HUMECTANTS
Brenntag North America
Roquette

HYALURONIC ACID
Brenntag North America
Contract
Pharmaceutical Corp
FMC Corp,
FMC BioPolymer
George Uhe Co
Marcor
Development Corp
ProteinLabs
Ruger Chemical Co
Worthington
Biochemical Corp

HYALURONIDASE
ProteinLabs
Worthington
Biochemical Corp

HYDRALAZINE HCL
Hetero, Custom
Pharmaceutical
Services

HYDRAZINE HYDRATE
Arkema

HYDROBROMIC ACID
Advanced Synthesis,
Chemical Div
Morre-Tec Industries

HYDROCHLORIC ACID
Arkema
Biologos
Hexion, Epoxy, Phenolic
& Coating Resins Div
Momentive
Performance Materials

HYDROCODONE
Contract
Pharmaceutical Corp
Johnson Matthey,
Pharmaceutical
Materials
Ruger Chemical Co

HYDROCODONE BITARTRATE
Johnson Matthey,
Pharmaceutical
Materials
Siegfried (USA)

HYDROCORTISONE ACETATE (CORTISOL ACETATE)
AIC
Asiamerica Group
Ceres Chemical Co
Napp Technologies LLC

Pfizer CentreOne
Ruger Chemical Co

HYDROCORTISONE AND RELATED COMPOUNDS (CORTISOL)

AIC
Napp Technologies LLC
Pfizer CentreOne

HYDROFLUORIC ACID

Arkema
Brenntag North America

HYDROGEN CHLORIDE

Arkema
BOC, A member of
The Linde Group

HYDROGEN PEROXIDE

Arkema
Biologos
Decon Labs
Hutchins & Hutchins,
Cleanroom Equipment
/ Supply Distributor

HYDROGENATED VEGETABLE OILS

ABITEC Corp
Arista Industries
Brenntag North America
Gattefossé USA,
Pharmaceutical Div
JRS Pharma
Mutchler
Pharmaceutical
Ingredients

HYDROMORPHONE HCL

Johnson Matthey,
Pharmaceutical
Materials
Siegfried (USA)

HYDROPHOBIC POLYMERS

Bangs Labs
CP Kelco,
A JM Huber Co

HYDROQUINONE

Advanced Synthesis,
Chemical Div
Brenntag North America
Ruger Chemical Co

HYDROXYETHYL CELLULOSE

Advanced Synthesis,
Chemical Div
Ashland,
Pharmaceutical
Asiameica Group
Mutchler
Pharmaceutical
Ingredients
Ruger Chemical Co

HYDROXYLAMINE SULFATE

Advanced Synthesis,
Chemical Div
Richman Chemical

HYDROXYPROPYL CELLULOSE

Ashland,
Pharmaceutical
Asiameica Group
Barrington Nutritionals
Brenntag North America
Colorcon
Dow Pharma Solutions,
Dow Advanced
Materials
Mutchler
Pharmaceutical
Ingredients

Nisso America,
Specialty Chemicals
Ruger Chemical Co

HYDROXYPROPYL CELLULOSE, LOW-SUBSTITUTED

Dow Pharma Solutions,
Dow Advanced
Materials

HYDROXYPROPYL METHYLCELLULOSE

Ashland,
Pharmaceutical
Barrington Nutritionals
Brenntag North America
Colorcon
Dow Pharma Solutions,
Dow Advanced
Materials
Kerry
KIC Chemicals

HYDROXYPROPYL METHYLCELLULOSE ACETATE

SUCCINATE
Ashland,
Pharmaceutical
Asiameica Group
Brenntag North America
Dow Pharma Solutions,
Dow Advanced
Materials
Ruger Chemical Co

HYDROXYPROPYL METHYLCELLULOSE PHTHALATE

Asiameica Group
Brenntag North America
Colorcon
Ruger Chemical Co

HYOCHOLIC ACID

Momentive
Performance Materials

HYOSCYAMINE

Contract
Pharmalcor Corp

HYOSCYAMINE HYDROBROMIDE

Contract
Pharmalcor Corp

HYPOXANTHINE

ANGUS Chemical Co

HYPROMELLOSE

Colorcon
JRS Pharma
JRS Pharma GmbH &
Co KG
Mutchler
Pharmaceutical
Ingredients

IBUPROFEN, USP

AIC
Aptalis Pharmaceutical
Technologies
Asiameica Group
BASF Corp, G-ENP
Ceres Chemical Co
Pharmsolv LLC
Ruger Chemical Co
SPI Pharma

ICHTHAMMOL

Ruger Chemical Co

IMIDAZOLIDINYL UREA

Ruger Chemical Co
Spectrum Chemical Mfg Corp

IMINODIBENZYL

Spectrum Chemical Mfg Corp

INDIUM SALTS

Soltec Ventures

INDIUM SULFATE

Soltec Ventures

INDIUM TRICHLORIDE

Soltec Ventures

INDOLE-3-CARBOXY-ALDEHYDE

Advanced Synthesis,
Chemical Div
INDOFINE Chemical Co
Richman Chemical

INDOLE-3-PROPIONIC ACID

Advanced Synthesis,
Chemical Div
INDOFINE Chemical Co

INSULINS

Asiameica Group

IODINE

Asiameica Group
Biologos
Contract
Pharmalcor Corp
Helm New York
Ruger Chemical Co

IODINE, RESUBLIMED

Ruger Chemical Co

IODOFORM

Spectrum Chemical Mfg Corp

IDOQUINOL

Napp Technologies LLC

IODOTRIMETHYL-SILANE

FAR Chemical

ION-EXCHANGE RESIN

Dow Pharma Solutions,
Dow Advanced
Materials
Jacobi Carbons

IONONE β PURE

Asiameica Group

IPECAC

Ruger Chemical Co

IRON III (FERRIC) ORTHO PHOSPHATE

Asiameica Group
Budenheim USA
Soltec Ventures

IRON POWDER

Asiameica Group
International Specialty
Products
Pharmsolv LLC

ISOAMYL ACETATE

Richman Chemical

ISOAMYL ALCOHOL (ISOPENTYL ALCOHOL)

Arkema
Richman Chemical

ISOBUTYL ALCOHOL

Arkema

ISOLEUCINE (L AND D,L)

AMINO GmbH
Asiameica Group
BioSpectra

ISOMALT

AIC

ISONICOTINIC ACID

Ruger Chemical Co

ISOPROPYL ACETATE

Blue Thunder
Technologies
Brenntag North America

ISOPROPYL ALCOHOL

Biologos
Blue Thunder
Technologies
Brenntag North America
Decon Labs
Ruger Chemical Co

ISOPROPYL FATTY ACID ESTERS

Brenntag North America
Ruger Chemical Co

ISOPROPYL MYRISTATE

Advanced Synthesis,
Chemical Div
Brenntag North America
Croda, Health Care
KIC Chemicals
Mutchler
Pharmaceutical
Ingredients
Ruger Chemical Co

ISOPROPYL PALMITATE

Advanced Synthesis,
Chemical Div
Brenntag North America
KIC Chemicals
Mutchler
Pharmaceutical
Ingredients
Ruger Chemical Co

ISOPROPYLAMINE

Arkema
Brenntag North America

ISOSORBIDE-5-MONONITRATE

Cambrex Pharma, Cambrex Karlskoga

ISOVALERIANATE

Asiameica Group

ITRACONAZOLE

Hetero, Custom
Pharmaceutical
Services
Napp Technologies LLC
Neuland Labs Ltd

JUNIPER BERRY EXTRACT

Asiameica Group
George Uhe Co

KAOLIN

Arkema
Brenntag North America
Ruger Chemical Co

KARAYA

Gumix Intl
Ruger Chemical Co
TIC Gums

KELP

Asiameica Group
Ruger Chemical Co

KETOCONAZOLE

Napp Technologies LLC
Primal Pharma
Solutions
Sekisui XenoTech

KETOPROFEN

Asiameica Group
Pharmsolv LLC

L-ARGININE

Asiameica Group
BioSpectra
Brenntag North America
Contract
Pharmalcor Corp
Corden Pharma
INDOFINE Chemical Co
Ruger Chemical Co
Spectrum Chemical Mfg Corp

L-ARGININE HCL

Asiameica Group
BioSpectra
Brenntag North America
Contract
Pharmalcor Corp
INDOFINE Chemical Co
Ruger Chemical Co
Spectrum Chemical Mfg Corp

L-ASPARTIC ACID

AMINO GmbH
Asiameica Group
BioSpectra
Brenntag North America
Ruger Chemical Co

L-CYSTEINE HCL

AIC
Asiameica Group
Brenntag North America
Contract
Pharmalcor Corp
Kingchem LLC
Marcor
Development Corp
Pangaea Sciences
Ruger Chemical Co

L-CYSTINE

AMINO GmbH
Asiameica Group
BioSpectra
Brenntag North America
Contract
Pharmalcor Corp
Kingchem LLC
Marcor
Development Corp
Pangaea Sciences
Ruger Chemical Co

L-LYSINE

Asiameica Group
Brenntag North America
Cherokee
Pharmaceuticals
Contract
Pharmalcor Corp
Evonik Corp,
Health Care
Helm New York
Ruger Chemical Co

L-PROLINE

Asiameica Group
Biolink Life Sciences
BioSpectra
George Uhe Co
Ruger Chemical Co
Spectrum Chemical Mfg Corp

L-SERINE

Advanced Synthesis,
Chemical Div
AMINO GmbH
Asiameica Group
BioSpectra
Corden Pharma
Evonik Corp,
Health Care
Spectrum Chemical Mfg Corp

L-TRYPTOPHAN

AMINO GmbH
BioSpectra

Contract
Pharmalcor Corp
Evonik Corp,
Health Care
Ruger Chemical Co

LABETALOL HCL

Neuland Labs Ltd

LACTALBUMIN HYDROLYSATE

Contract
Pharmalcor Corp
Kerry
Marcor
Development Corp

LACTIC ACID

Asiameica Group
Brenntag North America
KIC Chemicals
Ruger Chemical Co

LACTIDE

Evonik Corp,
Health Care

LACTITOL, MONOHYDRATE

Asiameica Group

LACTOFERRIN

Marcor
Development Corp

LACTOPEROXIDASE

Worthington
Biochemical Corp

LACTOSE

Kerry
Mutchler
Pharmaceutical
Ingredients

LACTOSE, DIRECT-COMPRESSION

Asiameica Group
BASF Corp, G-ENP
DFE pharma
Kerry
Mutchler
Pharmaceutical
Ingredients
Roquette
Ruger Chemical Co

LACTOSE, EDIBLE

Asiameica Group
Brenntag North America
Mutchler
Pharmaceutical
Ingredients
Ruger Chemical Co

LACTULOSE

Asiameica Group
Marcor
Development Corp
Ruger Chemical Co

LANOLIN

Asiameica Group
Brenntag North America
CoKEM Assocs
Croda, Health Care
Ruger Chemical Co

LANOLIN ACIDS

CoKEM Assocs

LANOLIN ALCOHOLS

Asiameica Group
CoKEM Assocs
Croda, Health Care
Ruger Chemical Co

LANOLIN BASES

CoKEM Assocs

LANOLIN OIL

Brenntag North America
CoKEM Assocs

For vendor contact information, see Company Directory section.

Croda, Health Care
Ruger Chemical Co

LANOLIN WAX
CoKEM Assocs

LANOLIN, WATER-SOLUBLE
CoKEM Assocs
Croda, Health Care
Ruger Chemical Co

LATEX PARTICLES
Hexion, Epoxy, Phenolic
& Coating Resins Div

LAURIC ACID
Arista Industries
KIC Chemicals
Sekisui XenoTech

LAURYL ALCOHOL
Ruger Chemical Co

LAVENDER OIL
Arista Industries
George Uhe Co
KIC Chemicals
Ruger Chemical Co

LEAD ACETATE
Advanced Synthesis,
Chemical Div

LEAD COMPOUNDS
Asiameica Group

LEAD OXIDES
Asiameica Group

LEAD SULFATE
Asiameica Group

LECITHIN
Asiameica Group
Brenntag North America
Ruger Chemical Co
Vernon Walden

LEMON OIL
Arista Industries
KIC Chemicals

LEUCINE (D,L) AMINO GMBH
Asiameica Group
BioSpectra
Brenntag North America
Sekisui XenoTech

LEUCO CRYSTAL VIOLET
Asiameica Group

LEVAMISOLE HCL
Asiameica Group

LEVOTHYROXINE SODIUM
Napp Technologies LLC

LICORICE, LICORICE EXTRACTS
Asiameica Group
MAFCO
Worldwide Corp
Morre-Tec Industries
Ruger Chemical Co

LIDAMIDINE
Asiameica Group

LIDOCAINE
Napp Technologies LLC

LIDOCAINE HCL
AIC
Asiameica Group
Napp Technologies LLC
Ruger Chemical Co

LINCOMYCIN HCL
Asiameica Group

LINEAR PRIMARY ALCOHOL
Asiameica Group

LINOLEIC ACID
Asiameica Group
Brenntag North America
Croda, Health Care
Ruger Chemical Co

LIPASE
American Labs
Asiameica Group
Marcor
Development Corp
ProteinLabs

LITHIUM
Advanced Synthesis,
Chemical Div
FMC Lithium

LITHIUM ACETYLIDE
Advanced Synthesis,
Chemical Div
Asiameica Group

LITHIUM ALUMINUM HYDRIDE
Advanced Synthesis,
Chemical Div
Asiameica Group

LITHIUM CARBONATE
FMC Lithium

LITHIUM CHLORIDE
Cherokee
Pharmaceuticals
FMC Lithium

LITHIUM CITRATE
Asiameica Group
FMC Lithium

LITHIUM FLUORIDE
Asiameica Group
FMC Lithium

LITHIUM HEXAMETHYL
Gelest

LITHIUM HYDROXIDE
FMC Lithium

LIVER CONCENTRATE
Sekisui XenoTech

LIVER EXTRACT
American Labs
Asiameica Group
BioVectra
Sekisui XenoTech

LIVER PROTEIN FRACTION
American Labs
Asiameica Group
ProteinLabs
Sekisui XenoTech

LIVER, DESSICATED
American Labs
Asiameica Group
Contract
Pharmaceutical Corp
Marcor
Development Corp

LIVER, WHOLE, DRIED POWDER
American Labs
Asiameica Group

LOBELINE SULFATE
Asiameica Group

LOCUST BEAN GUM
Asiameica Group
Brenntag North America
CP Kelco,
A JM Huber Co
Gumix Intl
KIC Chemicals
Ruger Chemical Co
TIC Gums

LOPERAMIDE HCL
Asiameica Group
Ceres Chemical Co
INDOFINE Chemical Co
Napp Technologies LLC

LORATADINE
Hetero, Custom
Pharmaceutical
Services

LORAZEPAM
Asiameica Group
Ceres Chemical Co
Evonik Corp, Health Care

LUCIFERION
Regis Custom Pharma

LYSINE MONOHYDROCHLORIDE
Asiameica Group
BioSpectra
Brenntag North America
Contract
Pharmaceutical Corp
Evonik Corp,
Health Care
Ruger Chemical Co

M-CHLOROPEROXY-BENZOIC ACID
Advanced Synthesis,
Chemical Div

M-NITROBENZOIC ACID
Cambrex Pharma,
Cambrex Karlskoga
Morre-Tec Industries
Richman Chemical

MAGNESIUM
Asiameica Group
Ruger Chemical Co

MAGNESIUM ALUMINUM SILICATE
Fuji Chemical
Industries USA
Ruger Chemical Co

MAGNESIUM BROMIDE
Asiameica Group
Morre-Tec Industries
Ruger Chemical Co

MAGNESIUM CARBONATE
Asiameica Group
Barrington Nutritionals
Brenntag North America
Morre-Tec Industries
Ruger Chemical Co

MAGNESIUM CHLORIDE
AIC
ANGUS Chemical Co
Arkema

MAGNESIUM CITRATE
Asiameica Group
Barrington Nutritionals
Brenntag North America
Jost Chemical Co
Ruger Chemical Co

MAGNESIUM FLUORIDE
Arkema
Asiameica Group

MAGNESIUM GLUCONATE
Asiameica Group
Contract
Pharmaceutical Corp
Jost Chemical Co
Ruger Chemical Co

MAGNESIUM GLYCERO-PHOSPHATE
Asiameica Group
Seppic,
Pharmaceutical Div

MAGNESIUM HYDROXIDE
Barrington Nutritionals
SPI Pharma

MAGNESIUM LACTATE
Asiameica Group
Jost Chemical Co
Ruger Chemical Co

MAGNESIUM OROTATE
Asiameica Group

MAGNESIUM OXIDE
Asiameica Group
Barrington Nutritionals
Brenntag North America
Contract
Pharmaceutical Corp
Ruger Chemical Co

MAGNESIUM SALICYLATE
Asiameica Group
Ruger Chemical Co

MAGNESIUM SILICATE
Charles B Chrystal

MAGNESIUM STEARATE
AIC
Asiameica Group
Barrington Nutritionals
Brenntag North America
KIC Chemicals
Mutchler
Pharmaceutical
Ingredients
Ruger Chemical Co

MAGNESIUM SULFATE (EPSOM SALTS)
AIC
ANGUS Chemical Co
Asiameica Group
Barrington Nutritionals
Brenntag North America
Jost Chemical Co
Ruger Chemical Co

MAGNESIUM SULFITE
Asiameica Group

MAGNESIUM TRISILICATE
Ruger Chemical Co

MALIC ACID
Asiameica Group
Brenntag North America
KIC Chemicals
Lonza
Ruger Chemical Co

MALTITOL SOLUTIONS
Asiameica Group
Barrington Nutritionals
Mutchler
Pharmaceutical
Ingredients
Roquette
Ruger Chemical Co

MALTODEXTRINS
Asiameica Group
Brenntag North America
Grain Processing Corp
Mutchler
Pharmaceutical
Ingredients
Roquette
Ruger Chemical Co

MALTOSE, CRYSTALLINE
Brenntag North America
Marcor
Development Corp
Ruger Chemical Co
SPI Pharma

MANGANESE CARBONATE
Asiameica Group
Ruger Chemical Co
Soltec Ventures

MANGANESE CHLORIDE
Asiameica Group
Soltec Ventures

MANGANESE GLUCONATE
Asiameica Group
Jost Chemical Co
Ruger Chemical Co
Soltec Ventures

MANGANESE GLYCERO-PHOSPHATE
Asiameica Group
Seppic,
Pharmaceutical Div
Soltec Ventures

MANGANESE LACTATE
Asiameica Group
Jost Chemical Co
Ruger Chemical Co
Soltec Ventures

MANGANESE NITRATE
Asiameica Group
Soltec Ventures

MANGANESE SULFATE
Jost Chemical Co
Soltec Ventures

MANNITOL, PYROGEN-FREE
Asiameica Group
Mutchler
Pharmaceutical
Ingredients
Roquette
Ruger Chemical Co

MECLIZINE
AIC

MECLIZINE HCL
AIC
Contract
Pharmaceutical Corp
Ruger Chemical Co

MEDIUM CHAIN TRIGLYCERIDES
Arista Industries
KIC Chemicals

MELATONIN
Asiameica Group
Barrington Nutritionals
Marcor
Development Corp
Ruger Chemical Co

MENTHOL
KIC Chemicals

MENTHOL, RACEMIC
Ruger Chemical Co

MEPROBAMATE
Asiameica Group

MERCURY
Asiameica Group

MESALAMINE CRYSTALLINE
Cambrex Pharma,
Cambrex Karlskoga

METAXALONE
Hetero, Custom
Pharmaceutical
Services

METHANESULFONIC ACID, 70%
Arkema
Cherokee
Pharmaceuticals
Richman Chemical

METHANESULFONIC ACID, ANHYDROUS
Arkema
Richman Chemical

METHANESULFONYL CHLORIDE
Arkema

METHANOL
BOC, A member of
The Linde Group
Brenntag North America
Ruger Chemical Co

METHANAMINE (HEXAMETHYLEN-TRAMINE)
BASF Corp, G-ENP
Contract
Pharmaceutical Corp
Ruger Chemical Co

METHANAMINE MANDELATE
Contract
Pharmaceutical Corp

METHIMAZOLE
Asiameica Group

METHIONINE AMINO GMBH
BioSpectra
Evonik Corp,
Health Care
Napp Technologies LLC

METHOXY-PHENAMINE HCL
Asiameica Group

METHYL ACETATE
Brenntag North America

METHYL BROMIDE
Airgas
BOC, A member of
The Linde Group

METHYL CELLULOSE
Ashland,
Pharmaceutical
Asiameica Group
Brenntag North America
Dow Pharma Solutions,
Dow Advanced
Materials
Ruger Chemical Co
TIC Gums

METHYL CHLORIDE
BOC, A member of
The Linde Group
Momentum
Performance Materials

METHYL CINNAMATE

Asiameica Group
George Uhe Co

METHYL CYCLOHEX-ANECARBOXYLATE

Advanced Synthesis,
Chemical Div

METHYL ETHYL KETONE

Arkema
Asiameica Group
Brenntag North America
Ruger Chemical Co

METHYL FORMATE

Advanced Synthesis,
Chemical Div

METHYL ISOBUTYL KETONE

Asiameica Group
Brenntag North America
Ruger Chemical Co

METHYL SALICYLATE

Asiameica Group
Napp Technologies LLC
Ruger Chemical Co

METHYL SULFIDE

Arkema

METHYL TESTOSTERONE

Ruger Chemical Co

METHYLENE BLUE

Ruger Chemical Co

METHYLENE CHLORIDE

Brenntag North America

METHYLLITHIUM

Asiameica Group

METHYL-P-HYDROXYZOATE)

Mutchler
Pharmaceutical
Ingredients
Napp Technologies LLC
Ruger Chemical Co

METHYLPHENIDATE HCL

BASF Corp, G-ENP
Siegfried (USA)

METHYL-PREDNISOLONE

Pfizer CentreOne

METHYL-PREDNISOLONE ACETATE

Pfizer CentreOne

METHYL-PREDNISOLONE BASE

Pfizer CentreOne

METHYL-PREDNISOLONE HEMISUCCINATE

Pfizer CentreOne

METHYL-RESORCINOL

Napp Technologies LLC
Ruger Chemical Co

METOCLOPRAMIDE

Novasep

MICONAZOLE NITRATE/BASE

AIC
Asiameica Group
Napp Technologies LLC
Ruger Chemical Co

MICROCRYSTALLINE WAX

Asiameica Group
Mutchler
Pharmaceutical
Ingredients
Ruger Chemical Co
Sonneborn LLC

MICROSOPHERES

Asahi Kasei Chemical
Corp/Asahi Kasei
America, Functional
Additives Div
Bangs Labs
Evonik Corp,
Health Care
Glatt Pharmaceutical
Services
Momentive
Performance Materials
Ruger Chemical Co

MINERAL OIL, HEAVY

Arista Industries
Sonneborn LLC

MINERAL OIL, LIGHT

Arista Industries
Brenntag North America
Hutchins & Hutchins,
Cleanroom Equipment
/ Supply Distributor
MultiTherm LLC
Mutchler
Pharmaceutical
Ingredients
Ruger Chemical Co
Sonneborn LLC

MINK OIL

Asiameica Group
Ruger Chemical Co

MINOXIDIL

Asiameica Group
Napp Technologies LLC

MOLYBDENUM POWDER

Asiameica Group

MONOAMMONIUM GLYCRRHIZINATE

MAFCO
Worldwide Corp

MONOAMMONIUM PHOSPHATE

Brenntag North America
Budenheim USA

MONOBUTYLAMINE

Arkema

MONOCALCIUM PHOSPHATE, MONOHYDRATE

Brenntag North America
Budenheim USA

MONOCLONAL ANTIBODIES

Goodwin Biotechnology
Lampire Biological Labs
Sekisui XenoTech

MONOETHANOL-AMINE

Ruger Chemical Co

MONOMAGNESIUM PHOSPHATE

Biologos

MONOPOTASSIUM PHOSPHATE

Biologos
Brenntag North America
Budenheim USA

MONOSACCHARIDES PYRAMID Labs

Brenntag North America

MONOSODIUM CITRATE

Brenntag North America

MONOSODIUM GLUTAMATE

Brenntag North America
Helm New York
KIC Chemicals
Ruger Chemical Co

MORPHINE SULFATE

Johnson Matthey,
Pharmaceutical
Materials
Siegfried (USA)

MORPHOLINE

Brenntag North America

MUCOPOLYSACCHARIDES

Marcor
Development Corp

MYRISTIC ACID

KIC Chemicals

MYRISTYL ALCOHOL

Ruger Chemical Co

MYRISTYL TRI-METHYL AMMONIUM BROMIDE

Advanced Synthesis,
Chemical Div

MYRISTYL-T-PICOLINIUM CHLORIDE

Advanced Synthesis,
Chemical Div

N-(2-ACETAMIDO) IMINODIACETIC ACID (ADA)

Spectrum Chemical
Mfg Corp

N-(2-HY-DROXYETHYL) PIPERAZINE-N'-2-ETHANESULFONIC ACID (HEPES, FREE ACID)

BioSpectra

N-ACETYLGLUCOS-AMINE

Marcor
Development Corp
Spectrum Chemical
Mfg Corp
Universal Preserv-
A-Chem

N-ACETYLMETHIO-NINE (D,L)

Spectrum Chemical
Mfg Corp

N-AMYL ALCOHOL

Advanced Synthesis,
Chemical Div
Penta Mfg Co,
Div Penta Intl Corp
Ruger Chemical Co
Spectrum Chemical
Mfg Corp

N-BENZYL-3-CARBETHOXY-4-PIPERIDONE

Kingchem LLC

N-BENZYL-4-PIPER-IDONE

Kingchem LLC

N-BROMOSUCCIN-IMIDE

Advanced Synthesis,
Chemical Div
Asiameica Group
Morre-Tec Industries
Richman Chemical

N-BUTYL ALCOHOL

Penta Mfg Co,
Div Penta Intl Corp

N-BUTYLLITHIUM

Advanced Synthesis,
Chemical Div
FMC Lithium

N-CARBETHOXY-4-PIPERIDONE

Kingchem LLC

N-DOCECENYL SUCCINIC ANHYDRIDE

Asiameica Group
Contract
Pharmaceutical Corp
Lonza

N-FORMYLGLYCINE ETHYL ESTER

Advanced Synthesis,
Chemical Div
Asiameica Group

N-METHYL ETHANOLAMINE

Arkema

N-METHYL PYRROLIDONE

Advanced Synthesis,
Chemical Div
Ashland,
Pharmaceutical
International Specialty
Products
Ruger Chemical Co

N-METHYL-4-CHLOROPIPERIDINE

INDOFINE Chemical Co

N-OCTADECENYL SUCCINIC ANHYDRIDE

Asiameica Group

N,N-CARBONYL-DIIMIDAZOLE

Advanced Synthesis,
Chemical Div
Morre-Tec Industries

NABUMETONE

Hetero, Custom
Pharmaceutical
Services

NALOXONE

Johnson Matthey,
Pharmaceutical
Materials

NALTREXONE

Johnson Matthey,
Pharmaceutical
Materials

NAPHAZOLINE HCL

Napp Technologies LLC

NAPHTHALENE

Advanced Synthesis,
Chemical Div

NAPROXEN

Asiameica Group

NEOMYCIN SULFATE

Asiameica Group
Helm New York
Pfizer CentreOne

NEOMYCIN SULFATE, USP AIC

Pfizer CentreOne

NEOSTIGMINE (BROMIDE AND METHYL SULPHATE)

DSM Pharmaceuticals
Products

NEROLIDOL

George Uhe Co

NIACIN (NICOTINIC ACID), VITAMIN

Asiameica Group
Barrington Nutritionals
Brenntag North America
DSM Nutritional
Products LLC
Helm New York
Lonza
Ruger Chemical Co

NIACINAMIDE

AIC
Asiameica Group
Barrington Nutritionals
BASF Corp, G-ENP
Brenntag North America
DSM Nutritional
Products LLC



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Helm New York
Lonza
Ruger Chemical Co

NIACINAMIDE ASCORBATE
Asiamerica Group
BASF Corp, G-ENP
DSM Nutritional
Products LLC
Ruger Chemical Co

NICKEL NITRATE
Ruger Chemical Co

NICKEL SULFATE
Ruger Chemical Co

NICOTINE
Penta Mfg Co,
Div Penta Intl Corp
Ruger Chemical Co
Siegfried (USA)

NICOTINIC ACID
DSM Nutritional
Products LLC
George Uhe Co
Ruger Chemical Co

NIFEDIPINE
Evonik Corp,
Health Care
Siegfried (USA)

NIOBIUM SALTS
Soltec Ventures

NIOTINAMIDE
Asiamerica Group

NITRIC ACID
Brenntag North America

NITROETHANE
ANGUS Chemical Co

NITROFURAZONE
Ruger Chemical Co

NITROGEN
Airgas
BOC, A member of
The Linde Group
Praxair

NITROMETHANE
ANGUS Chemical Co

NITROPROPANE
ANGUS Chemical Co

NONOXYNOL-10
Ruger Chemical Co

NONOXYNOL-9
Ruger Chemical Co

NORTRIPTYLINE HCL
Asiamerica Group
Ceres Chemical Co
Napp Technologies LLC

NORVALINE (D1)
Sekisui XenoTech

NOSCAPINE
Asiamerica Group

NUCLEIC ACID
Worthington
Biochemical Corp

NUCLEOSIDES
George Uhe Co

NUTMEG OIL
Arista Industries
KIC Chemicals
Ruger Chemical Co

NYSTATIN
Napp Technologies LLC

O-AMINO BENZOIC ACID
INDOFINE Chemical Co
Spectrum Chemical
Mfg Corp

O-AMINOTHIO-PHENOL
Asiamerica Group

O-ANISALDEHYDE, TECHNICAL
INDOFINE Chemical Co

OCTANOL
Asiamerica Group

OCTOXYNOL-9
Asiamerica Group
Ruger Chemical Co

OIL, OTHERS
Arista Industries
Ruger Chemical Co

OLEIC ACID
Arista Industries
Asiamerica Group
Brenntag North America
Croda, Health Care
KIC Chemicals
Mutchler
Pharmaceutical
Ingredients
Ruger Chemical Co

OLEOYL ALCOHOL
Croda, Health Care

OLIGONUCLEOTIDES
Spectrum Chemical
Mfg Corp

OLIGOSACCHARIDES
Spectrum Chemical
Mfg Corp

OLIVE OIL
Arista Industries
Brenntag North America
Croda, Health Care
KIC Chemicals
Morre-Tec Industries
Mutchler
Pharmaceutical
Ingredients
Ruger Chemical Co
Spectrum Chemical
Mfg Corp

OMEPRAZOLE
Hetero, Custom
Pharmaceutical
Services
Sekisui XenoTech
Spectrum Chemical
Mfg Corp

ORANGE OIL
Arista Industries
George Uhe Co
KIC Chemicals
Spectrum Chemical
Mfg Corp
Virginia Dare

ORANGE PEEL TINCTURE, SWEET
Asiamerica Group

ORCEIN
Asiamerica Group

OROTIC ACID
Asiamerica Group
Spectrum Chemical
Mfg Corp

ORPHENADRINE CITRATE
Spectrum Chemical
Mfg Corp

ORPHENADRINE HCL
Spectrum Chemical
Mfg Corp

OXABOLONE
Spectrum Chemical
Mfg Corp

OXACILLIN SODIUM STERILE MONOHYDRATE
Asiamerica Group
Spectrum Chemical
Mfg Corp

OXALIC ACID
Advanced Synthesis,
Chemical Div
Asiamerica Group
Brenntag North America
Ruger Chemical Co
Spectrum Chemical
Mfg Corp

OXALYL CHLORIDE
Advanced Synthesis,
Chemical Div
Richman Chemical
Spectrum Chemical
Mfg Corp

OXAPROZIN
Spectrum Chemical
Mfg Corp

OXAZEPAM
Spectrum Chemical
Mfg Corp

OXTRIPHYLLINE
Spectrum Chemical
Mfg Corp

OXYBUTYNNIN CHLORIDE
BASF Corp, G-ENP
Ceres Chemical Co
Spectrum Chemical
Mfg Corp

OXYCLOZANIDE
Spectrum Chemical
Mfg Corp

OXYCODONE HCL
Johnson Matthey,
Pharmaceutical
Materials
Siegfried (USA)
Spectrum Chemical
Mfg Corp

OXYMETAZOLINE HCL
BASF Corp, G-ENP
Ceres Chemical Co
Spectrum Chemical
Mfg Corp

OXYMETHOLONE
Asiamerica Group
Spectrum Chemical
Mfg Corp

OXYTETRACYCLINE
Asiamerica Group
Helm New York
Spectrum Chemical
Mfg Corp

OXYTETRACYCLINE HCL
Spectrum Chemical
Mfg Corp

OXYTOCIN
Spectrum Chemical
Mfg Corp

OYSTER SHELL POWDER
Asiamerica Group
Barrington Nutritionals
Contract
Pharmalco Corp

P-AMINO BENZOIC ACID
Spectrum Chemical
Mfg Corp

P-AMINOHIPPURIC ACID
INDOFINE Chemical Co

P-CHLOR BENZO-PHENONE
INDOFINE Chemical Co
Richman Chemical

P-CHLORO-M-CRESOL
Ruger Chemical Co

P-CHLOROACETO-PHENONE
INDOFINE Chemical Co
Richman Chemical

P-ETHOXYBENZOIC ACID
INDOFINE Chemical Co

P-FLUOROANILINE
INDOFINE Chemical Co
Kingchem LLC

P-HYDROXYACETO-PHENONE
Richman Chemical

P-HYDROXY-BENZOIC ACID
Napp Technologies LLC

P-METHOXY-PHENYLACETIC ACID
Advanced Synthesis,
Chemical Div
INDOFINE Chemical Co

P-METHYL ACETOPHENONE
INDOFINE Chemical Co
Richman Chemical

P-TOLUENE-SULFONIC ACID
EMD Millipore, A Div
of Merck KGaA
Darmstadt Germany

P-TOLUENE-SULFONYL CHLORIDE
EMD Millipore, A Div
of Merck KGaA
Darmstadt Germany

PACLITAXEL
Novasep
Sekisui XenoTech
Soltec Ventures

PALLADIUM SALTS
Spectrum Chemical
Mfg Corp

PALMITIC ACID
Brenntag North America
KIC Chemicals
Mutchler
Pharmaceutical
Ingredients
Ruger Chemical Co

PAMABROM
Ceres Chemical Co
Contract
Pharmalco Corp

PANCREASE ENZYME
American Labs
Asiamerica Group
Marcor
Development Corp
Pangaea Sciences
ProteinLabs

PANCREATIN
American Labs
Asiamerica Group
Contract
Pharmalco Corp
Marcor
Development Corp
ProteinLabs
Ruger Chemical Co

PANCRELIPASE
ProteinLabs

PANTETHINE
Arista Industries
Asiamerica Group

PANTOTHENIC ACID
Asiamerica Group
Brenntag North America
Contract
Pharmalco Corp
DSM Nutritional
Products LLC
Ruger Chemical Co

PAPAIN
American Labs
Asiamerica Group
Contract
Pharmalco Corp
Marcor
Development Corp
ProteinLabs
Ruger Chemical Co
Worthington
Biochemical Corp

PAPAVERINE HCL
Spectrum Chemical
Mfg Corp

PARA-AMINO-HIPPURIC ACID
Asiamerica Group

PARAFFIN, LIQUID (MINERAL OIL)
Aptalis Pharmaceutical
Technologies
MultiTherm LLC
Mutchler
Pharmaceutical
Ingredients
Ruger Chemical Co
Sonneborn LLC

PARAFORMAL-DEHYDE
Advanced Synthesis,
Chemical Div

PEANUT OIL
Arista Industries
Croda, Health Care
KIC Chemicals

PECTIN
Asiamerica Group
Barrington Nutritionals
Brenntag North America
CP Kelco,
A JM Huber Co
KIC Chemicals
Ruger Chemical Co
TIC Gums

PENICILLIN G POTASSIUM
Asiamerica Group
Helm New York

PENICILLIN G PROCAINE
Asiamerica Group

PENTAERYTHRITOL
Spectrum Chemical
Mfg Corp

PENTAMIDINE ISETHIONATE
Spectrum Chemical
Mfg Corp

PENTOBARBITAL
Siegfried (USA)

PEPPERMINT
Contract
Pharmalco Corp
Ruger Chemical Co

PEPPERMINT OIL
Arista Industries
KIC Chemicals
Spectrum Chemical
Mfg Corp

PEPSIN
American Labs
ProteinLabs
Worthington
Biochemical Corp

PEPTIDES
BioVectra
Evonik Corp,
Health Care
ProteinLabs
Sekisui XenoTech

PEPTIDES, SYNTHETIC
BioVectra
Evonik Corp,
Health Care
Sekisui XenoTech
Spectrum Chemical
Mfg Corp

PEPTONES
American Labs
Marcor
Development Corp
Spectrum Chemical
Mfg Corp

PERSIC OIL
Arista Industries
Ruger Chemical Co

PETROLATUM, WHITE (PARAFFIN, WHITE SOFT)
Sonneborn LLC

PETROLATUM, YELLOW
Brenntag North America
Ruger Chemical Co
Sonneborn LLC

PHENAZOPYRIDINE HCL
Contract
Pharmalco Corp
Siegfried (USA)

PHENINDIONE
Asiamerica Group
Spectrum Chemical
Mfg Corp

PHENIRAMINE MALEATE
AIC
Napp Technologies LLC
Spectrum Chemical
Mfg Corp

PHENOBARBITAL
Asiamerica Group
Ceres Chemical Co
Ruger Chemical Co
Siegfried (USA)
Spectrum Chemical
Mfg Corp

PHENOBARBITAL SODIUM
Asiameica Group
Ruger Chemical Co
Spectrum Chemical Mfg Corp

PHENOL
Advanced Synthesis, Chemical Div
Asiameica Group
Hexion, Epoxy, Phenolic & Coating Resins Div
Ruger Chemical Co
Spectrum Chemical Mfg Corp

PHENOLPHTHALEIN
Ceres Chemical Co
Ruger Chemical Co
Spectrum Chemical Mfg Corp

PHENOXYETHANOL
Morre-Tec Industries
Penta Mfg Co,
Div Penta Intl Corp

PHENTERMINE HCL
Pisgah Labs
Siegfried (USA)
Spectrum Chemical Mfg Corp

PHENYL ACETATE
Richman Chemical
Spectrum Chemical Mfg Corp

PHENYL ACETYLENE
Advanced Synthesis, Chemical Div
FAR Chemical

PHENYL BUTAZONE
Aptalis Pharmaceutical Technologies
Spectrum Chemical Mfg Corp

PHENYL SALICYLATE
Ruger Chemical Co
Spectrum Chemical Mfg Corp

PHENYLACETIC ACID
Arkema
Penta Mfg Co,
Div Penta Intl Corp
Spectrum Chemical Mfg Corp

PHENYLACETO-NITRILE
Arkema

PHENYLACETYL CHLORIDE
Spectrum Chemical Mfg Corp

PHENYLALANINE (D,L)
Asiameica Group
BioSpectra
Corden Pharma
Sekisui XenoTech
Spectrum Chemical Mfg Corp

PHENYLEPHRINE HCL
AIC
Napp Technologies LLC
Spectrum Chemical Mfg Corp

PHENYLETHYL ALCOHOL
Penta Mfg Co,
Div Penta Intl Corp
Spectrum Chemical Mfg Corp

PHENYLMALONIC ACID
Spectrum Chemical Mfg Corp

PHENYLMERCURIC ACETATE
Spectrum Chemical Mfg Corp

PHENYLMERCURIC NITRATE
Spectrum Chemical Mfg Corp

PHENYLPROPANOL-AMINE HCL
George Uhe Co

PHENYLPROPYL ALCOHOL
Spectrum Chemical Mfg Corp

PHENYLTOLOX-AMINE CITRATE
Napp Technologies LLC

PHLOROGLUCINOL DIHYDRATE
DSM Pharmaceuticals Products
INDOFINE Chemical Co
Spectrum Chemical Mfg Corp

PHLOROGLUCINOL, ANHYDROUS
DSM Pharmaceuticals Products
INDOFINE Chemical Co
Spectrum Chemical Mfg Corp

PHOSPHATIDYL CHOLINE
Corden Pharma
Vernon Walden

PHOSPHATIDYL GLYCERYL
Corden Pharma
Vernon Walden

PHOSPHOLIPIDS
Corden Pharma
Pion
Ruger Chemical Co
Vernon Walden

PHOSPHORIC ACID
Arkema
Brenntag North America
Ruger Chemical Co
Spectrum Chemical Mfg Corp

PHOSPHORUS OXYCHLORIDE
Advanced Synthesis, Chemical Div
Brenntag North America

PHOSPHORUS PENTOXIDE
Advanced Synthesis, Chemical Div
Arkema
Brenntag North America

PHOSPHORUS TRICHLORIDE
Brenntag North America

PHYLLOQUINONE
DSM Nutritional Products LLC

PICOLINIC ACID
Cambrex Pharma,
Cambrex Karlskoga
Richman Chemical
Ruger Chemical Co
Spectrum Chemical Mfg Corp

PILOCARPINE
Spectrum Chemical Mfg Corp

PILOCARPINE HCL
Spectrum Chemical Mfg Corp

PINE NEEDLE OIL
Arista Industries
George Uhe Co
Spectrum Chemical Mfg Corp

PINE TAR
Ruger Chemical Co

PIPERAZINE
Spectrum Chemical Mfg Corp

PIPERAZINE CITRATE
Spectrum Chemical Mfg Corp

PIPERIDINE
Cherokee
Pharmaceuticals
Spectrum Chemical Mfg Corp

PIVALIC ACID
Hexion, Epoxy, Phenolic & Coating Resins Div

PLACENTA EXTRACT
Marcor
Development Corp

PLATINUM AND SALTS
Soltec Ventures

POLY (D,L) LACTIC ACID
Brenntag North America
Evonik Corp,
Health Care
Ortec

POLY (D,L) LACTIC CO-GLYCOLIC ACID
Evonik Corp,
Health Care
Ortec

POLY (DIMETH- YLSILOXANE) (DIMETHICONE)
Dow Corning, Pharma Solutions - Healthcare

POLY (L) LACTIC ACID
Brenntag North America
Evonik Corp,
Health Care
Ortec

POLY(LACTIC ACID)
Brenntag North America
Evonik Corp,
Health Care
Ortec

POLYCAPROL- ACTONE
Evonik Corp,
Health Care
Ortec

POLYETHYLENE GLYCOL ESTERS
BASF Corp, G-ENP
Biolink Life Sciences
BioVectra
Brenntag North America
Gattefossé USA,
Pharmaceutical Div
Lonza
Mutchler
Pharmaceutical
Ingredients
Ruger Chemical Co

POLYETHYLENE GLYCOL MONOLAUARATE
Brenntag North America
Gattefossé USA,
Pharmaceutical Div
Lonza
Ruger Chemical Co

POLYETHYLENE GLYCOL MONO- STEARATE (POLYOXYL 40 STEARATE)
BASF Corp, G-ENP
Brenntag North America
Gattefossé USA,
Pharmaceutical Div
Lonza
Ruger Chemical Co
Seppic,
Pharmaceutical Div

POLYETHYLENE GLYCOLS
BASF Corp, G-ENP
Biolink Life Sciences
BioVectra
Mutchler
Pharmaceutical
Ingredients
Ruger Chemical Co

POLYETHYLENE OXIDE
Dow Pharma Solutions,
Dow Advanced
Materials

POLYGLYCEROL FATTY ACID ESTERS
Croda, Health Care
Gattefossé USA,
Pharmaceutical Div
Lonza

POLYGLYCOLIC ACID
Evonik Corp,
Health Care
Ortec

POLYMER DELIVERY SYSTEMS
Colorcon
Evonik Corp,
Health Care

POLYMER FILMS, HYDROPHILIC
BASF Corp, G-ENP
Colorcon
Evonik Corp,
Health Care
Momentive
Performance Materials
Mylan Technologies
Roquette

POLYMER FILMS, HYDROPHOBIC
BASF Corp, G-ENP
Colorcon
CP Kelco,
A JM Huber Co
Evonik Corp,
Health Care
Momentive
Performance Materials
Mylan Technologies

POLYMERS, CROSS-LINKED
Ashland,
Pharmaceutical
Bangs Labs
BASF Corp, G-ENP
Evonik Corp,
Health Care
International Specialty
Products
Lubrizol Advanced
Materials
Momentive
Performance Materials

POLYMERS, SUPERABSORBENT
Evonik Corp,
Health Care
Hexion, Epoxy, Phenolic & Coating Resins Div
Momentive
Performance Materials
Ruger Chemical Co

POLYMYXIN B SULFATE
AIC
Napp Technologies LLC

POLYOXYETHYLENE FATTY ESTERS
Croda, Health Care
Gattefossé USA,
Pharmaceutical Div
Ruger Chemical Co

POLYOXYETHYLENE GLYCOLS
BASF Corp, G-ENP
Biolink Life Sciences
Gattefossé USA,
Pharmaceutical Div
Ruger Chemical Co

POLYPEPTIDES
Evonik Corp,
Health Care

POLYPROPYLENE GLYCOLS
Brenntag North America
Ruger Chemical Co

POLYSORBATES
Croda, Health Care
KIC Chemicals

POLYVINYL ALCOHOL
BASF Corp, G-ENP
Brenntag North America
Hexion, Epoxy, Phenolic & Coating Resins Div
Penta Mfg Co,
Div Penta Intl Corp
Ruger Chemical Co

POLYVINYLPIRROL- IDONE
AIC
Ashland,
Pharmaceutical
BASF Corp, G-ENP
International Specialty
Products
Mutchler
Pharmaceutical
Ingredients
Napp Technologies LLC
Ruger Chemical Co

POTASSIUM
Asiameica Group

POTASSIUM ACETATE
Asiameica Group
Ruger Chemical Co
Spectrum Chemical Mfg Corp

POTASSIUM ALGINATE
Asiameica Group
Spectrum Chemical Mfg Corp

POTASSIUM AMINO BENZOATE
Asiameica Group
Contract
Pharmaceutical Corp
Spectrum Chemical Mfg Corp

POTASSIUM BENZOATE
Spectrum Chemical Mfg Corp

POTASSIUM BICARBONATE
Asiameica Group
Brenntag North America
Mutchler
Pharmaceutical
Ingredients
Ruger Chemical Co
Spectrum Chemical Mfg Corp

POTASSIUM BIFLUORIDE
Arkema
Spectrum Chemical Mfg Corp

POTASSIUM BITAR- TRATE (CREAM OF TARTAR)
Ruger Chemical Co
Spectrum Chemical Mfg Corp

POTASSIUM BROMATE
Asiameica Group
Morre-Tec Industries
Spectrum Chemical Mfg Corp

POTASSIUM BROMIDE
BioSpectra
Morre-Tec Industries
Spectrum Chemical Mfg Corp

POTASSIUM CARBONATE
Asiameica Group
Brenntag North America
Mutchler
Pharmaceutical
Ingredients
Ruger Chemical Co
Spectrum Chemical Mfg Corp

POTASSIUM CHLORIDE
ANGUS Chemical Co
Asiameica Group
BioSpectra
Brenntag North America
Contract
Pharmaceutical Corp
Morre-Tec Industries
Mutchler
Pharmaceutical
Ingredients
Pharmsolv LLC
Ruger Chemical Co
Spectrum Chemical Mfg Corp

POTASSIUM CITRATE
Asiameica Group
Barrington Nutritionals
Brenntag North America
KIC Chemicals
Ruger Chemical Co
Spectrum Chemical Mfg Corp

For vendor contact information, see Company Directory section.

- POTASSIUM CYANIDE**
Spectrum Chemical Mfg Corp
- POTASSIUM DICHROMATE**
Spectrum Chemical Mfg Corp
- POTASSIUM FERRICYANIDE**
Spectrum Chemical Mfg Corp
- POTASSIUM FORMATE**
Asiameica Group
Spectrum Chemical Mfg Corp
- POTASSIUM GLUCONATE**
Asiameica Group
Brenntag North America Contract
Pharmaceutical Corp
Jost Chemical Co
Ruger Chemical Co
Spectrum Chemical Mfg Corp
- POTASSIUM GLYCERO-PHOSPHATE**
Asiameica Group
Seppic,
Pharmaceutical Div
- POTASSIUM GUAIACOL-SULFONATE**
Napp Technologies LLC
- POTASSIUM HYDROXIDE**
Asiameica Group
Mutchler
Pharmaceutical
Ingredients
Ruger Chemical Co
Spectrum Chemical Mfg Corp
- POTASSIUM IODATE**
AIC
Asiameica Group
Contract
Pharmaceutical Corp
Ruger Chemical Co
Spectrum Chemical Mfg Corp
- POTASSIUM IODIDE**
AIC
Asiameica Group
Ruger Chemical Co
Spectrum Chemical Mfg Corp
- POTASSIUM LACTATE**
Asiameica Group
Brenntag North America
Ruger Chemical Co
Spectrum Chemical Mfg Corp
- POTASSIUM METABISULFITE**
Spectrum Chemical Mfg Corp
- POTASSIUM NITRATE**
AIC
Asiameica Group
CoKEM Assocs
Jost Chemical Co
Ruger Chemical Co
Spectrum Chemical Mfg Corp
- POTASSIUM OXALATE**
Ruger Chemical Co
Spectrum Chemical Mfg Corp
- POTASSIUM PERMANGANATE**
Ruger Chemical Co
Spectrum Chemical Mfg Corp
- POTASSIUM PHENYLACETATE**
Arkema
Spectrum Chemical Mfg Corp
- POTASSIUM PHOSPHATE, DIBASIC**
Brenntag North America
Budenheim USA
Jost Chemical Co
Ruger Chemical Co
- POTASSIUM PHOSPHATE, MONOBASIC**
Brenntag North America
Budenheim USA
Jost Chemical Co
Ruger Chemical Co
- POTASSIUM SALICYLATE**
Ruger Chemical Co
Spectrum Chemical Mfg Corp
- POTASSIUM SORBATE**
Asiameica Group
Brenntag North America
Helm New York
KIC Chemicals
Ruger Chemical Co
Spectrum Chemical Mfg Corp
- POTASSIUM STEARATE**
Asiameica Group
Ruger Chemical Co
- POTASSIUM SULFAMATE**
Spectrum Chemical Mfg Corp
- POTASSIUM SULFATE**
Asiameica Group
Jost Chemical Co
Ruger Chemical Co
Spectrum Chemical Mfg Corp
- POTASSIUM SULFITE**
Spectrum Chemical Mfg Corp
- POTASSIUM TETRABORATE**
Brenntag North America
- POTASSIUM THIOCYANATE**
Spectrum Chemical Mfg Corp
- POTASSIUM THIOSULFATE**
Ruger Chemical Co
Spectrum Chemical Mfg Corp
- POVIDONE**
Ashland,
Pharmaceutical
Asiameica Group
BASF Corp, G-ENP
International Specialty Products
- Mutchler
Pharmaceutical
Ingredients
Napp Technologies LLC
Ruger Chemical Co
Spectrum Chemical Mfg Corp
- POVIDONE-IODINE USP**
AIC
Ashland,
Pharmaceutical
Napp Technologies LLC
Spectrum Chemical Mfg Corp
- PRAMOXINE HYDROCHLORIDE**
AIC
- PRAMOXINE HCL**
Napp Technologies LLC
Spectrum Chemical Mfg Corp
- PRAVASTATIN**
Spectrum Chemical Mfg Corp
- PRAZIQUANTEL**
AIC
Helm New York
- PREDNISOLONE**
Spectrum Chemical Mfg Corp
- PREDNISOLONE ACETATE**
Spectrum Chemical Mfg Corp
- PREDNISONE**
Ruger Chemical Co
- PREGELATINIZED STARCH**
Asahi Kasei Chemical Corp/Asahi Kasei America, Functional Additives Div
Grain Processing Corp
Mutchler
Pharmaceutical
Ingredients
- PREGNENOLONE**
Asiameica Group
Marcor
Development Corp
Spectrum Chemical Mfg Corp
- PRILOCAINE HCL**
BASF Corp, G-ENP
Ceres Chemical Co
Spectrum Chemical Mfg Corp
- PRIMIDONE**
Siegfried (USA)
- PROCAINAMIDE HCL**
Spectrum Chemical Mfg Corp
- PROCAINE**
Asiameica Group
Ruger Chemical Co
Spectrum Chemical Mfg Corp
- PROCAINE HCL**
Spectrum Chemical Mfg Corp
- PROGESTERONE**
Asiameica Group
Kingchem LLC
Pfizer CentreOne
Ruger Chemical Co
- PROMETHAZINE HCL**
Napp Technologies LLC
- PROPARGYL BROMIDE**
Advanced Synthesis,
Chemical Div
- PROPIONIC ACID**
Arkema
Brenntag North America
- PROPOXYLATED ALCOHOLS**
ABITEC Corp
- PROPOXYPHENE HCL**
Brenntag North America
Siegfried (USA)
- PROPRANOLOL**
Aptalis Pharmaceutical Technologies
Asiameica Group
- PROPRANOLOL HCL**
Asiameica Group
- PROPYL GALLATE**
Brenntag North America
Richman Chemical
Ruger Chemical Co
- PROPYLENE GLYCOL**
Brenntag North America
Hexion, Epoxy, Phenolic & Coating Resins Div
KIC Chemicals
Ruger Chemical Co
- PROPYLENE GLYCOL FATTY ACID ESTERS**
ABITEC Corp
Croda, Health Care
Mutchler
Pharmaceutical
Ingredients
- PROPYLENE GLYCOL MONOSTEARATE**
ABITEC Corp
Brenntag North America
Gattefosse USA,
Pharmaceutical Div
Ruger Chemical Co
TIC Gums
- PROPYLPARABEN**
Napp Technologies LLC
Ruger Chemical Co
- PROSTAGLANDINS**
Pfizer CentreOne
- PROTECTING AGENTS**
Advanced Synthesis,
Chemical Div
CoKEM Assocs
Morre-Tec Industries
- PROTEIN ADSORBENTS**
ProteinLabs
- PROTEIN BASES**
American Labs
- PROTEIN DERIVATIVES**
ProteinLabs
- PROTEIN HYDROLYSATES**
American Labs
Charles B Chrystal
Kerry
ProteinLabs
- PROTEIN NUTRIENTS**
PB Leiner USA
Pharmsolv LLC
ProteinLabs
Vernon Walden
- PROTEINS**
American Labs
Barrington Nutritionals
Lampire Biological Labs
PB Leiner USA
ProteinLabs
Roquette
Ruger Chemical Co
Vernon Walden
Worthington
Biochemical Corp
- PSEUDOEPHEDRINE HCL**
Aptalis Pharmaceutical Technologies
Asiameica Group
BASF Corp, G-ENP
Pharmsolv LLC
Ruger Chemical Co
- PSEUDOEPHEDRINE SULFATE**
Asiameica Group
BASF Corp, G-ENP
Ruger Chemical Co
- PSYLLIUM SEED (PLANTAGO SEED)**
Asiameica Group
Barrington Nutritionals
George Uhe Co
- PVP/VA COPOLYMERS**
Ashland,
Pharmaceutical
BASF Corp, G-ENP
International Specialty Products
- PYRANTEL PAMOATE**
AIC
- PYRANTEL TARTRATE**
AIC
- PYRIDINE**
Regis Custom Pharma
Spectrum Chemical Mfg Corp
- PYRILAMINE MALEATE (MEPYRAMINE)**
AIC
Asiameica Group
Lonza
Marcor
Development Corp
Napp Technologies LLC
- PYRUVIC ACID**
Advanced Synthesis,
Chemical Div
ANGUS Chemical Co
Asiameica Group
- PYRUVIC ACID ETHYL ESTER**
Advanced Synthesis,
Chemical Div
- QUINIDINE GLUCONATE**
Asiameica Group
- QUINIDINE SULFATE**
Asiameica Group
- Momentive
Performance Materials
Spectrum Chemical Mfg Corp
- QUININE HYDROCHLORIDE**
Asiameica Group
Penta Mfg Co,
Div Penta Intl Corp
- QUININE SULFATE**
Asiameica Group
- RAMIPRIL**
Hetero, Custom
Pharmaceutical
Services
Neuland Labs Ltd
- RANITIDINE HCL**
Asiameica Group
Spectrum Chemical Mfg Corp
- REAGENT CHEMICALS**
Advanced Synthesis,
Chemical Div
Spectrum Chemical Mfg Corp
- RESORCINOL**
Advanced Synthesis,
Chemical Div
Napp Technologies LLC
Richman Chemical
Ruger Chemical Co
- RESORCINOL MONOACETATE**
Ruger Chemical Co
- RETINOIC ACID (TRETINOIN)**
BASF Corp, G-ENP
DSM Nutritional
Products LLC
Ruger Chemical Co
- RHAMNOSE**
Marcor
Development Corp
- RIBAVIRIN**
Asiameica Group
BASF Corp, G-ENP
- RIBOFLA-VIN SODIUM PHOSPHATE**
Asiameica Group
Brenntag North America
DSM Nutritional
Products LLC
- RIBONUCLEASE**
ProteinLabs
Worthington
Biochemical Corp
- RIBONUCLEIC ACID**
George Uhe Co
Marcor
Development Corp
Spectrum Chemical Mfg Corp
Worthington
Biochemical Corp
- RIFAMPIN**
Spectrum Chemical Mfg Corp
- RIFAMYCIN**
Spectrum Chemical Mfg Corp
- RISPERIDONE**
AIC

RITODRINE HCL
Spectrum Chemical
Mfg Corp

ROCHELLE SALTS
Ruger Chemical Co

ROSE OIL
Arista Industries
Spectrum Chemical
Mfg Corp

ROSIN
Hexion, Epoxy, Phenolic
& Coating Resins Div
Ruger Chemical Co

RUBIDIUM SALTS
Spectrum Chemical
Mfg Corp

RUTHENIUM SALTS
Spectrum Chemical
Mfg Corp

RUTIN
Asiameica Group
Marcor
Development Corp
Ruger Chemical Co

SACCHARIN
KIC Chemicals
Spectrum Chemical
Mfg Corp

SACCHARIN SODIUM
Asiameica Group
Brenntag North America
George Uhe Co
Helm New York
KIC Chemicals
Ruger Chemical Co
Spectrum Chemical
Mfg Corp

SAFFLOWER OIL
Arista Industries
Brenntag North America
Croda, Health Care
KIC Chemicals
Morre-Tec Industries
Ruger Chemical Co
Spectrum Chemical
Mfg Corp

SAFRANINE
Spectrum Chemical
Mfg Corp

SAFROLE
Spectrum Chemical
Mfg Corp

SALICYLAMIDE
Asiameica Group
Contract
Pharmalac Corp
WeylChem US

SALICYLIC ACID
Asiameica Group
Brenntag North America
George Uhe Co
Napp Technologies LLC
Ruger Chemical Co
WeylChem US

SAMARIUM SALTS
Soltec Ventures

**SCOPOLAMINE
BROMIDE**
Contract
Pharmalac Corp
Spectrum Chemical
Mfg Corp

**SCOPOLAMINE
HYDROBROMIDE**
George Uhe Co
Spectrum Chemical
Mfg Corp

SEALANTS
Momentive
Performance Materials

SEC-BUTYLLITHIUM
Advanced Synthesis,
Chemical Div
FMC Lithium

**SECURITY, BRAND
PROTECTION**
TruTag Technologies

SELENIUM DIOXIDE
Asiameica Group

**SELENIUM ON
YEAST**
Asiameica Group
George Uhe Co
Vernon Walden

SELENIUM SALTS
Contract
Pharmalac Corp
Soltec Ventures
Spectrum Chemical
Mfg Corp

SELENIUM SULFIDE
CoKEM Assocs

SELENIUM YEAST
Asiameica Group
Vernon Walden

**SERUM PRODUCTS,
ANIMAL**
Biologos
ProteinLabs

**SERUM PRODUCTS,
HUMAN**
ProteinLabs

SESAME OIL
Arista Industries
Asiameica Group
Croda, Health Care
KIC Chemicals
Ruger Chemical Co
Spectrum Chemical
Mfg Corp

SILANES
Dow Corning, Pharma
Solutions - Healthcare
FAR Chemical
Momentive
Performance Materials
Ruger Chemical Co

SILICA
Arkema
Bangs Labs
Barrington Nutritionals
Charles B Chrystal
Chemtech Specialties
Dow Corning, Pharma
Solutions - Healthcare
Evonik Resource
Efficiency GmbH,
Silica
Momentive
Performance Materials
Mutchler
Pharmaceutical
Ingredients
Ruger Chemical Co
TruTag Technologies

SILICA GEL
Advanced Synthesis,
Chemical Div
Arkema
Brenntag North America
Momentive
Performance Materials
Ruger Chemical Co

**SILICONE
ELASTOMERS**
Dow Corning, Pharma
Solutions - Healthcare

Momentive
Performance Materials

SILICONE FLUID
Brenntag North America
Dow Corning, Pharma
Solutions - Healthcare
Gelest
Momentive
Performance Materials
Ruger Chemical Co

**SILOXANE,
METHYLATED
CYCLIC
(CYCLOMETHICONE)**
Dow Corning, Pharma
Solutions - Healthcare
Gelest
Momentive
Performance Materials
Ruger Chemical Co

SILVER (METAL)
AIC
Soltec Ventures
Spectrum Chemical
Mfg Corp

SILVER ACETATE
Gelest
Soltec Ventures
Spectrum Chemical
Mfg Corp

SILVER BROMIDE
Soltec Ventures
Spectrum Chemical
Mfg Corp

SILVER CARBONATE
Spectrum Chemical
Mfg Corp

SILVER CHLORIDE
Advanced Synthesis,
Chemical Div
Soltec Ventures
Spectrum Chemical
Mfg Corp

SILVER CYANIDE
Soltec Ventures
Spectrum Chemical
Mfg Corp

SILVER IODIDE
Soltec Ventures
Spectrum Chemical
Mfg Corp

SILVER NITRATE
Spectrum Chemical
Mfg Corp

SILVER OXIDE
Soltec Ventures
Spectrum Chemical
Mfg Corp

**SILVER
SULFADIAZINE**
Napp Technologies LLC
Soltec Ventures
Spectrum Chemical
Mfg Corp

SILVER SULFATE
EMD Millipore, A Div
of Merck KGaA
Darmstadt Germany
Soltec Ventures
Spectrum Chemical
Mfg Corp

SILYLATING AGENTS
Advanced Synthesis,
Chemical Div
Gelest
Momentive
Performance Materials
Regis Custom Pharma
Soltec Ventures

SIMETHICONE
AIC
Dow Corning, Pharma
Solutions - Healthcare
Momentive
Performance Materials
Ruger Chemical Co
Spectrum Chemical
Mfg Corp

**SIMETHICONE
EMULSION**
Dow Corning, Pharma
Solutions - Healthcare
Momentive
Performance Materials

**SIMETHICONE
EMULSION,
LOW-SODIUM**
Momentive
Performance Materials

**SIMETHICONE,
GRANULAR**
Momentive
Performance Materials
Ruger Chemical Co

SIMVASTATIN
Hetero, Custom
Pharmaceutical
Services
Spectrum Chemical
Mfg Corp

SITOSTEROL
Asiameica Group
Spectrum Chemical
Mfg Corp

**SODIUM 2-[4-
(2-HYDROXYETHYL)
PIPERAZIN-1-YL]
ETHANESULFONATE
(HEPES, NA)**
BioSpectra

**SODIUM 2-MORPHO-
LIN-4-YLETHANE-
SULFONATE
(MES, NA)**
BioSpectra

**SODIUM 3-MORPHO-
LIN-4-YLPROPANE-
1-SULFONATE
(MOPS, NA)**
BioSpectra

SODIUM ACETATE
ANGUS Chemical Co
Asiameica Group
Brenntag North America
EMD Millipore, A Div
of Merck KGaA
Darmstadt Germany
Jost Chemical Co
Richman Chemical
Ruger Chemical Co
Spectrum Chemical
Mfg Corp

**SODIUM ACID
PYROPHOSPHATE**
Brenntag North America
Budenheim USA

SODIUM ALGINATE
AIC
Spectrum Chemical
Mfg Corp

**SODIUM ALUMINUM
HYDRIDE**
Advanced Synthesis,
Chemical Div
Spectrum Chemical
Mfg Corp

**SODIUM AMMONIUM
PHOSPHATE**
Brenntag North America

**SODIUM
ASCORBATE**
Asiameica Group
BASF Corp, G-ENP
Brenntag North America
DSM Nutritional
Products LLC
Helm New York
KIC Chemicals
Ruger Chemical Co
Spectrum Chemical
Mfg Corp

SODIUM BENZOATE
Asiameica Group
Brenntag North America
Charles B Chrystal
Helm New York
Jet Pulverizer Co
KIC Chemicals
Ruger Chemical Co
Spectrum Chemical
Mfg Corp

**SODIUM
BICARBONATE**
Asiameica Group
Brenntag North America
EMD Millipore, A Div
of Merck KGaA
Darmstadt Germany
Mutchler
Pharmaceutical
Ingredients
Natrium Products
Ruger Chemical Co
Spectrum Chemical
Mfg Corp

**SODIUM
BIPHOSPHATE**
Ruger Chemical Co

SODIUM BISULFATE
Jost Chemical Co
Ruger Chemical Co
Spectrum Chemical
Mfg Corp

SODIUM BISULFITE
Ruger Chemical Co
Spectrum Chemical
Mfg Corp

SODIUM BORATE
Brenntag North America
Ruger Chemical Co

**SODIUM
BOROHYDRIDE**
Advanced Synthesis,
Chemical Div
EMD Millipore, A Div
of Merck KGaA
Darmstadt Germany
Rohm & Haas Chemicals
LLC, Process
Chemicals Div
Spectrum Chemical
Mfg Corp

SODIUM BROMIDE
Morre-Tec Industries
Spectrum Chemical
Mfg Corp

SODIUM CAPRYLATE
EMD Millipore, A Div
of Merck KGaA
Darmstadt Germany
Napp Technologies LLC
Richman Chemical
Ruger Chemical Co

**SODIUM
CARBONATE**
Asiameica Group
Brenntag North America
Jost Chemical Co
Mutchler
Pharmaceutical
Ingredients
Ruger Chemical Co
Spectrum Chemical
Mfg Corp

**SODIUM
CARBOXYMETHYL
CELLULOSE**
AIC
Ashland,
Pharmaceutical
Asiameica Group
Brenntag North America
Gumix Intl
JRS Pharma GmbH &
Co KG
KIC Chemicals
Multi-Kem Corp
Mutchler
Pharmaceutical
Ingredients
Ruger Chemical Co
TIC Gums

SODIUM CHLORIDE
ANGUS Chemical Co
Arkema
Asiameica Group
Brenntag North America
EMD Millipore, A Div
of Merck KGaA
Darmstadt Germany
Ruger Chemical Co
Spectrum Chemical
Mfg Corp

SODIUM CHOLATE
Arkema
Marcor
Development Corp

SODIUM CITRATE
Asiameica Group
Barrington Nutritionals
Brenntag North America
DSM Nutritional
Products LLC
EMD Millipore, A Div
of Merck KGaA
Darmstadt Germany
KIC Chemicals
Ruger Chemical Co

SODIUM CYANIDE
Spectrum Chemical
Mfg Corp

**SODIUM
DEHYDROCHOLATE**
DSM Pharmaceuticals
Products

**SODIUM
DEOXYCHOLATE**
Marcor
Development Corp

**SODIUM
DIATRIZOATE**
Spectrum Chemical
Mfg Corp

SODIUM FLUORIDE
AIC
Arkema
Asiameica Group
Brenntag North America
CoKEM Assocs
Ruger Chemical Co
Spectrum Chemical
Mfg Corp

SODIUM FORMATE
Brenntag North America
Jost Chemical Co

**SODIUM
GLUCONATE**
Asiameica Group
Brenntag North America
Roquette
Ruger Chemical Co
Spectrum Chemical
Mfg Corp

SODIUM GLYCINATE
Asiameica Group

For vendor contact information, see Company Directory section.

SODIUM GLYCINE CARBONATE

Asiameica Group

SODIUM HYDRIDEAdvanced Synthesis,
Chemical Div
EMD Millipore, A Div
of Merck KGaA
Darmstadt Germany
Rohm & Haas
Chemicals LLC,
Process
Chemicals Div**Spectrum Chemical
Mfg Corp****SODIUM HYDROXIDE**BioSpectra
**Spectrum Chemical
Mfg Corp****SODIUM HYPOCHLORITE**Brenntag North America
**Spectrum Chemical
Mfg Corp****SODIUM HYPOPHOSPHITE**Arkema
Brenntag North America
Richman Chemical**SODIUM IODIDE**Asiameica Group
Brenntag North America
EMD Millipore, A Div
of Merck KGaA
Darmstadt Germany
Ruger Chemical Co
**Spectrum Chemical
Mfg Corp****SODIUM LAUROYL SARCO SINATE**

Ruger Chemical Co

SODIUM LAURYL SULFATEAvéma Pharma
Brenntag North America
Mutchler
Pharmaceutical
Ingredients
Ruger Chemical Co
**Spectrum Chemical
Mfg Corp****SODIUM METABISULFITE**Brenntag North America
Ruger Chemical Co**SODIUM METHYLATE**Brenntag North America
EMD Millipore, A Div
of Merck KGaA
Darmstadt Germany**SODIUM MONO-CHLOROACETATE**Arkema
Brenntag North America**SODIUM NITRATE**Asiameica Group
Brenntag North America
Jost Chemical Co
Ruger Chemical Co
**Spectrum Chemical
Mfg Corp****SODIUM NITRITE**Brenntag North America
Ruger Chemical Co
**Spectrum Chemical
Mfg Corp****SODIUM OXALATE****Spectrum Chemical
Mfg Corp****SODIUM PHOSPHATE, DIBASIC**ANGUS Chemical Co
Biologos
Brenntag North America
Budenheim USA
EMD Millipore, A Div
of Merck KGaA
Darmstadt Germany
Jost Chemical Co
Mutchler
Pharmaceutical
Ingredients
Ruger Chemical Co**SODIUM PHOSPHATE, MONOBASIC**ANGUS Chemical Co
Biologos
Jost Chemical Co**SODIUM PHOSPHATE, TRIBASIC**Brenntag North America
Budenheim USA
EMD Millipore, A Div
of Merck KGaA
Darmstadt Germany
Jost Chemical Co
Mutchler
Pharmaceutical
Ingredients
Ruger Chemical Co
**Spectrum Chemical
Mfg Corp****SODIUM PHOSPHITE**Budenheim USA
Jost Chemical Co
Ruger Chemical Co**SODIUM PROPIONATE**Brenntag North America
Ruger Chemical Co
**Spectrum Chemical
Mfg Corp****SODIUM PYROPHOSPHATE**

Jost Chemical Co

SODIUM SALICYLATEEMD Millipore, A Div
of Merck KGaA
Darmstadt Germany
Napp Technologies LLC
Ruger Chemical Co
**Spectrum Chemical
Mfg Corp****SODIUM SELENATE**Asiameica Group
Cherokee
Pharmaceuticals
Contract
Pharmaceutical Corp**SODIUM SELENITE**

AIC

SODIUM SILICATEContract
Pharmaceutical Corp
Ruger Chemical Co**SODIUM STARCH GLYCOLATE**DFE pharma
JRS Pharma
JRS Pharma GmbH &
Co KG
Mutchler
Pharmaceutical
Ingredients
Roquette
Ruger Chemical Co**SODIUM STEARATE**AIC
Brenntag North AmericaKIC Chemicals
Ruger Chemical Co**SODIUM STEAROYL LACTYLATE**

Brenntag North America

SODIUM STEARYL FUMARATEJRS Pharma
Mutchler
Pharmaceutical
Ingredients
SPI Pharma**SODIUM SUCCINATE**Asiameica Group
Brenntag North America
Jost Chemical Co
KIC Chemicals**SODIUM SULFATE**Asiameica Group
Brenntag North America
EMD Millipore, A Div
of Merck KGaA
Darmstadt Germany
Jost Chemical Co
**Spectrum Chemical
Mfg Corp****SODIUM SULFITE**Brenntag North America
Ruger Chemical Co
**Spectrum Chemical
Mfg Corp****SODIUM THIOCYANATE**Richman Chemical
**Spectrum Chemical
Mfg Corp****SODIUM THIOSULFATE**Brenntag North America
Ruger Chemical Co**SODIUM TRIPOLYPHOSPHATE**Brenntag North America
Budenheim USA
George Uhe Co
Ruger Chemical Co**SOLVENTS, HPLC**EMD Millipore, A Div
of Merck KGaA
Darmstadt Germany
**Spectrum Chemical
Mfg Corp****SORBIC ACID**KIC Chemicals
**Spectrum Chemical
Mfg Corp****SORBITAN ESTERS**Brenntag North America
Lonza
Ruger Chemical Co
Seppic,
Pharmaceutical Div**SORBITAN FATTY ACID ESTERS**Brenntag North America
Croda, Health Care
Lonza
Ruger Chemical Co
Seppic,
Pharmaceutical Div**SORBITOL**Asiameica Group
Barrington Nutritionals
Brenntag North America
EMD Millipore, A Div
of Merck KGaA
Darmstadt Germany
KIC ChemicalsMutchler
Pharmaceutical
Ingredients
Roquette
Ruger Chemical Co
**Spectrum Chemical
Mfg Corp**
SPI Pharma**SORBITOL, PYROGEN-FREE**Brenntag North America
Roquette
Ruger Chemical Co**SOY HYDROLYSATE**Kerry
Marcor
Development Corp**SOY OIL**Arista Industries
Brenntag North America
Croda, Health Care
Ruger Chemical Co**SOY PROTEIN CONCENTRATE**Brenntag North America
Contract
Pharmaceutical Corp
Ruger Chemical Co**SPEARMINT OIL**Arista Industries
KIC Chemicals
**Spectrum Chemical
Mfg Corp****SPERMACETI, SYNTHETIC**Croda, Health Care
Ruger Chemical Co**SPHINGOLIPIDS**EMD Millipore, A Div
of Merck KGaA
Darmstadt Germany
Ruger Chemical Co
Vernon Walden**SPIRONOLACTONE**Piramal Pharma
Solutions**SQUALANE**Arista Industries
Asiameica Group
Ruger Chemical Co**STANNOUS FLUORIDE**AIC
**Spectrum Chemical
Mfg Corp****STARCH**Asiameica Group
Brenntag North America
Colorcon
EMD Millipore, A Div
of Merck KGaA
Darmstadt Germany
Grain Processing Corp
Multi-Kem Corp
Mutchler
Pharmaceutical
Ingredients
Roquette
Ruger Chemical Co**STARCH, COMPRESSIBLE**Asiameica Group
Brenntag North America
Colorcon
Grain Processing Corp
Mutchler
Pharmaceutical
Ingredients
Roquette
Ruger Chemical Co**STARCH, POTATO, MODIFIED**Brenntag North America
Colorcon
Mutchler
Pharmaceutical
Ingredients
Roquette
Ruger Chemical Co**STAVUDINE**Hetero, Custom
Pharmaceutical
Services**STEARIC ACID**AIC
Arista Industries
Asiameica Group
Brenntag North America
KIC Chemicals
Mutchler
Pharmaceutical
Ingredients
Ruger Chemical Co**STEARYL ALCOHOL**Croda, Health Care
KIC Chemicals
Mutchler
Pharmaceutical
Ingredients
Ruger Chemical Co**STEROIDS**EMD Millipore, A Div
of Merck KGaA
Darmstadt Germany
**Spectrum Chemical
Mfg Corp****STREPTOMYCIN SULFATE**EMD Millipore, A Div
of Merck KGaA
Darmstadt Germany
Helm New York**STRONTIUM CHLORIDE**Asiameica Group
Cherokee
Pharmaceuticals**STRONTIUM SALTS**EMD Millipore, A Div
of Merck KGaA
Darmstadt Germany**STRONTIUM SALTS****Spectrum Chemical
Mfg Corp****STRYCHNINE SALTS****Spectrum Chemical
Mfg Corp****SUCCINIC ACID**EMD Millipore, A Div
of Merck KGaA
Darmstadt Germany
KIC Chemicals**SUCCINIC ANHYDRIDE**EMD Millipore, A Div
of Merck KGaA
Darmstadt Germany**SUCROSE**

BioSpectra

SUCROSE ESTERSCroda, Health Care
Gattafossé USA,
Pharmaceutical Div
Helm New York
Multi-Kem Corp
Mutchler
Pharmaceutical
Ingredients
Ruger Chemical Co**SUDAN BLACK B**EMD Millipore, A Div
of Merck KGaA
Darmstadt Germany**SUGAR**Mutchler
Pharmaceutical
Ingredients
Paulaur Corp**SUGAR SPHERES**Colorcon
Paulaur Corp**SUGAR, COMPRESSIBLE**Mutchler
Pharmaceutical
Ingredients
Paulaur Corp
Ruger Chemical Co**SUGAR, CONFECTIONERS'**Mutchler
Pharmaceutical
Ingredients
Paulaur Corp**SULFACETAMIDE**Asiameica Group
**Spectrum Chemical
Mfg Corp****SULFADIAZINE****SODIUM SALT**
Asiameica Group**SULFAMETHAZINE**Asiameica Group
**Spectrum Chemical
Mfg Corp****SULFAMETHAZINE SODIUM**

Asiameica Group

SULFAMETHIZOLE

Asiameica Group

SULFAMETHOX-AZOLE

Asiameica Group

SULFAMIC ACIDEMD Millipore, A Div
of Merck KGaA
Darmstadt Germany
**Spectrum Chemical
Mfg Corp****SULFANILAMIDE**Asiameica Group
Napp Technologies LLC**SULFASALAZINE**Cambrex Pharma,
Cambrex Karlskoga**SULFONATES**Regis Custom Pharma
Ruger Chemical Co**SULFONIC ACID DERIVATIVES, PERFLUORINATED**Arkema
Kingchem LLC**SULFOSUCCINATES**

Ruger Chemical Co

SULFURArkema
**Spectrum Chemical
Mfg Corp****SULFURIC ACID**Arkema
Brenntag North America
EMD Millipore, A Div
of Merck KGaA
Darmstadt Germany**SULINDAC****Spectrum Chemical
Mfg Corp**

SUPEROXIDE DISMUTASE

Contract
Pharmaceutical Corp
Marcor
Development Corp
ProteinLabs
Worthington
Biochemical Corp

SUPPOSITORY BASES
ABITEC Corp

SURFACE ACTIVE AGENTS

ABITEC Corp
Alconox
Arkema
CoKEM Assocs
Croda, Health Care
Cytec Industries,
Additive Technologies
Gattefossé USA,
Pharmaceutical Div
Lubrizol Advanced
Materials
Momentive
Performance Materials
Mutchler
Pharmaceutical
Ingredients
Ruger Chemical Co

SURFACE ACTIVE INGREDIENTS, NONIONIC

ABITEC Corp
Alconox
CoKEM Assocs
Croda, Health Care
Gattefossé USA,
Pharmaceutical Div
Mutchler
Pharmaceutical
Ingredients
Ruger Chemical Co

SUSPENDING AGENTS

Arkema
Charles B Chrystal
CoKEM Assocs
CP Kelco,
A JM Huber Co
FMC Corp,
FMC BioPolymer
Gattefossé USA,
Pharmaceutical Div
Grain Processing Corp
Lubrizol Advanced
Materials
Momentive
Performance Materials
Ruger Chemical Co
TIC Gums

SWEETNESS POTENTIATORS

Lubrizol Advanced
Materials
Virginia Dare

SYRINGIC ACID, TECHNICAL

INDOFINE Chemical Co

T-BUTYL ACETATE

Penta Mfg Co,
Div Penta Intl Corp
Spectrum Chemical
Mfg Corp

T-BUTYL ALCOHOL

Advanced Synthesis,
Chemical Div
Penta Mfg Co,
Div Penta Intl Corp
Ruger Chemical Co
Spectrum Chemical
Mfg Corp

T-BUTYLAMINE

Asiameica Group

T-BUTYLDIMETHYL-CHLOROSILANE

Advanced Synthesis,
Chemical Div
Gelest

T-BUTYLDIPHENYL-CHLOROSILANE

Advanced Synthesis,
Chemical Div
Gelest

TABLETING AGENTS

Asiameica Group
BASF Corp, G-ENP
Charles B Chrystal
Colorcon
FMC Corp,
FMC BioPolymer
Gattefossé USA,
Pharmaceutical Div
Grain Processing Corp
Kerry
Multi-Kem Corp
Mutchler
Pharmaceutical
Ingredients
Roquette
Ruger Chemical Co
Specialty Minerals
Spectrum Chemical
Mfg Corp

TABLETING BASES, PREGANULATED

Colorcon
Roquette

TALC

Charles B Chrystal

TAMOXIFEN

EMD Millipore, A Div
of Merck KGaA
Darmstadt Germany
Ruger Chemical Co
Spectrum Chemical
Mfg Corp

TAMOXIFEN CITRATE

EMD Millipore, A Div
of Merck KGaA
Darmstadt Germany

TANNIC ACID

Ruger Chemical Co

TARTARIC ACID

Glatt Pharmaceutical
Services
KIC Chemicals

TAURINE

Asiameica Group
Brenntag North America
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Rice Lake Weighing Systems
Sartorius Stedim North America
Scientech

BATCH CONTROL SYSTEMS

A&B Process Systems Corp, JBT Corporation
ABB, Process Automation Div
ABB Measurement & Analytics
APD Systems
Atlantic Scale Co
Automated Control Concepts
AZO

Charles Ross & Son Co

Chem Flowtronics
Custom Powder Systems.
The Containment Co
DJS Enterprises
Emerson Process Mgmt, Systems & Solutions
EquipNet
ESCO Technologies
Fluid Air, Spraying Systems Co
GEA Process
Engineering, GEA Pharma Systems
GEMCO
GMP Systems
Keith Machinery Corp
Krohne
Lee Industries, Process Systems & Equipment/
Fluid Transfer Divs

BATHS, TEMPERATURE CALIBRATION

Beamex
Cannon Instrument Co
CARON Products Services
Chem Flowtronics
EquipNet
GE Sensing & Inspection Technologies
General Lab & Cleanroom Supply, dba General Lab Supply
Globe Scientific
IKA Works
Julabo USA
Process Tek

BATCHING AND BLENDING SYSTEMS

A&B Process Systems Corp, JBT Corporation
Acron
Apache Stainless Equipment Corp
APD Systems
Arde Barinco, Aerojet Rocketdyne
Atlantic Scale Co
AZO

For vendor contact information, see Company Directory section.

BEE Intl
CapPlus Technologies
Charles Ross & Son Co
Chem Flowtronics
Custom Powder Systems.

The Containment Co

DCI
DCI-Biolafitte
Diamondback Technology
DJS Enterprises
Dynamic Air
Emerson Process Mgmt, Systems & Solutions
EquipNet
ESCO Technologies
GEA Process Engineering, GEA Pharma Systems
GEMCO
GMP Systems
HealthStar
IMA North America
Integrated Containment Systems
Jaygo
Keith Machinery Corp
Keystone Process Equipment
Krohne
Lee Industries, Process Systems & Equipment/
Fluid Transfer Divs
Marion Process Solutions
Material Transfer & Storage
Mendel Co
Michael Benalt
Oden Machinery
Patterson Kelley
Pope Scientific
Process Solutions
Rockwell Automation
Ruland Engineering & Consulting GmbH
Samuel Pressure Vessel Group, Tomahawk
Servolift
Siemens Process Industries + Drives
Silverson Machines
Sproflow Systems
The Young Industries
Vishay BLH, Vishay Transducers

EMERSON Process Mgmt, Systems & Solutions
EquipNet
ESCO Technologies
GEA Process Engineering, GEA Pharma Systems
GEMCO
GMP Systems
HealthStar
IMA North America
Integrated Containment Systems
Jaygo
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Keystone Process Equipment
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The Young Industries
Vishay BLH, Vishay Transducers

Jaygo
NETZSCH Premier Technologies LLC, Grinding & Dispersing Process Tek

BEARINGS, STAINLESS STEEL

EquipNet

BIN DISCHARGE STATIONS

Acron
APD Systems
AZO
Coperion K-Tron Custom Powder Systems.
The Containment Co
Diamondback Technology
EquipNet
GEA Process Engineering, GEA Pharma Systems
ILC Dover
Integrated Containment Systems
Material Transfer & Storage
MO Industries
Nicos Group
Process Solutions
Remcon Plastics
Servolift
Snyder Industries, Dry Handling & IBC Div
Sproflow Systems
The Young Industries
Vac-U-Max

BIN LIFTERS

CapPlus Technologies
Custom Powder Systems.
The Containment Co
Daiichi Jitsugyo (America), Pharmaceutical Div
DJS Enterprises
EHS Solutions LLC
EquipNet
Fluid Air, Spraying Systems Co
GEA Process Engineering, GEA Pharma Systems
HealthStar
Integrated Containment Systems
Interthor
Material Transfer & Storage
MO Industries
Nicos Group
Process Solutions
R on I
Servolift
Vac-U-Max

BIN ROTATORS

Custom Powder Systems.
The Containment Co
Daiichi Jitsugyo (America), Pharmaceutical Div
DJS Enterprises
EquipNet
GEA Process Engineering, GEA Pharma Systems
GEMCO
Integrated Containment Systems
Interthor
Nicos Group
Process Solutions
R on I
Servolift

BIN TRANSPORTERS, STAINLESS STEEL

Apache Stainless
Equipment Corp
APD Systems
Black Forest Container Systems
Custom Powder Systems.
The Containment Co
EquipNet
Feldmeier Equipment
Hurst Corp
Interthor
MagneMotion
Nicos Group
Process Solutions
R on I
Remcon Plastics
Servolift

BIN VIBRATORS

Dynamic Air
ERIEZ
ILC Dover
Kemutec

BIN WASHERS

Custom Powder Systems.
The Containment Co
Daiichi Jitsugyo (America), Pharmaceutical Div
EquipNet
Gamajet Cleaning Systems
GEA Process Engineering, GEA Pharma Systems
Girton Mfg Co, Pharmaceutical Div
Lancer USA
MO Industries
Nicos Group
Sani-Matic
Servolift

BINS, BULK STORAGE

Akro-Mils
Apache Stainless Equipment Corp
AZO
Black Forest Container Systems
Coperion K-Tron Custom Powder Systems.
The Containment Co
Daiichi Jitsugyo (America), Pharmaceutical Div
Diamondback Technology
Edgeco
EquipNet
Feldmeier Equipment
GEA Process Engineering, GEA Pharma Systems
Hurst Corp
Integrated Containment Systems
InterMetro Industries Corp
Lee Industries, Process Systems & Equipment/
Fluid Transfer Divs
Mendel Co
Michael Benalt
MO Industries
Molded Fiber Glass
Tray Co
Nicos Group
Process Solutions
Remcon Plastics
Servolift
Snyder Industries, Dry Handling & IBC Div
Vac-U-Max

Westfield Sheet Metal Works
Wirecrafters LLC

BIOCONTAINERS

Chem Flowtronics
ESCO Technologies
Pall Corp, Life Sciences Group
Parker domnick hunter

BIOLOGICAL INDICATORS

BIOQUELL, Life Sciences
Clordisys Solutions
EquipNet
Mesa Labs, Biological Indicators
Process Tek
Rubber Fab

BIOREACTOR PROBE

Eppendorf
EquipNet
GMP Systems
QualiTru Sampling Systems
Xcellerex

BIOREACTORS

ABEC
ADI Systems
Allegheny Bradford Corp, Corporate American Alloy Fabricators
Apache Stainless Equipment Corp
Aquasyn LLC
AWS Bio-Pharma Technologies
Bioengineering
Bosch Packaging Technology, Pharma
Charles Ross & Son Co
Chem Flowtronics
DCI-Biolafitte
Distek
Eppendorf
EquipNet
ESCO Technologies
GEA Process Engineering, GEA Pharma Systems
Glen Mills
GMP Systems
IKA Works
Lee Industries, Process Systems & Equipment/
Fluid Transfer Divs
Lonza
Pall Corp, Life Sciences Group
Pall Life Sciences, Biopharmaceuticals
Paul Mueller Co
Pope Scientific
Samuel Pressure Vessel Group, Tomahawk
Sartorius Stedim North America
Telstar North America
Wheaton Industries, Wheaton Science Packaging
Xcellerex

BLENDER COVERS

DJS Enterprises
EquipNet
FabOhio
GEA Process Engineering, GEA Pharma Systems
GMP Systems
ILC Dover
Keith Machinery Corp



innovation

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CHECKWEIGHING & INSPECTION

Lee Industries, Process Systems & Equipment/ Fluid Transfer Divs
Michael Benait

**BLENDER/
MIXER LOADERS,
AUTOMATIC**

AWS Bio-Pharma Technologies
AZO
Coperion K-Tron Custom Powder Systems.
The Containment Co
Daichi Jitsugyo (America), Pharmaceutical Div
DJS Enterprises
Draiswerke
EquipNet
GEA Process Engineering, GEA Pharma Systems
GEMCO
General Lab & Cleanroom Supply, dba General Lab Supply
Glen Mills
GMP Systems
IKA Works
ILC Dover
Integrated Containment Systems
Keith Machinery Corp
Kemutec
Lee Industries, Process Systems & Equipment/ Fluid Transfer Divs
Marion Process Solutions
Mendel Co
Michael Benait
MO Industries
Readco Kurimoto LLC
Samuel Pressure Vessel Group, Tomahawk
Sancilio & Co
Scientific Industries
Servolift
The Young Industries
Torpac
Vac-U-Max
Verder Scientific, North America
Westfield Sheet Metal Works

**BLENDERS,
CONTINUOUS**

Acriston
Bioengineering
Charles Ross & Son Co
Chem Flowtronics
Contract
Pharmaceutical Corp
DCI
DCI-Biolafitte
DJS Enterprises
Dynamic Air
EquipNet
GEA Process Engineering, GEA Pharma Systems
GMP Systems
ILC Dover
Jaygo
JLS Intl
Kemutec
Marion Process Solutions
Mendel Co
Morse Mfg Co
Nicos Group
Oden Machinery
Patterson Kelley
Readco Kurimoto LLC
Ruland Engineering & Consulting GmbH
Samuel Pressure Vessel Group, Tomahawk

Sancilio & Co
Vac-U-Max

**BLENDERS,
PORTABLE HOPPER**

Apache Stainless
Equipment Corp
APD Systems
AZO
CapPlus Technologies
Champion Trading Corp
Charles Ross & Son Co
Chem Flowtronics
Contract
Pharmaceutical Corp
Custom Powder Systems.
The Containment Co
DCI
DCI-Biolafitte
Diamondback Technology
DJS Enterprises
EquipNet
GEMCO
General Lab & Cleanroom Supply, dba General Lab Supply
Glen Mills
GMP Systems
HealthStar
ILC Dover
Keith Machinery Corp
Lee Industries, Process Systems & Equipment/ Fluid Transfer Divs
Marion Process Solutions
Mendel Co
Michael Benait
MO Industries
Readco Kurimoto LLC
Samuel Pressure Vessel Group, Tomahawk
Servolift
Vac-U-Max
Westfield Sheet Metal Works

BUFFING WHEELS

EquipNet
General Lab & Cleanroom Supply, dba General Lab Supply
Natoli Engineering Co

**CABINET
FREEZERS, CO₂, N₂**

Chem Flowtronics
EquipNet
General Lab & Cleanroom Supply, dba General Lab Supply
**CALIBRATION
EQUIPMENT**
Airgas
AMETEK, Sensors, Test & Calibration
Ametek Brookfield, Instrumentation & Specialty Controls
Division Street
Ashcroft
ATAGO USA
ATS RheoSystems, Cannon Instrument Co
Beamex
Cole-Parmer
Distek
EquipNet
GE Sensing & Inspection Technologies
I Holland Ltd
IMA North America
MCC-Measurement Control Corp
Mil-Ram Technology

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Pharmatron
Process Tek
Rotronic
Sierra Instruments
SMI
Thunder Scientific Corp
Troemner
WIKA Instrument Corp
Yokogawa Corp of America

**CAPSULE CLEANING
AND POLISHING
MACHINES**

ACG North America LLC
CapPlus Technologies
DJS Enterprises
Driam USA
EquipNet
HealthStar
Keith Machinery Corp
Key Intl
Kraemer US LLC
Lancer USA
Mendel Co
MG America
Michael Benait
Pharma Technology
Sancilio & Co
Seidenader Equipment
Symetix
Torpac

**CAPSULE
MANUFACTURING
EQUIPMENT**

CapPlus Technologies
Charles Ross & Son Co
Contract
Pharmaceutical Corp
DJS Enterprises
EquipNet
ESCO Technologies
Fette Compacting America
IMA North America
MagneMotion
MCC-Measurement Control Corp
Mendel Co
MG America
Michael Benait
Molins
ProCepT
Qualicaps
Torpac

**CAPSULE
MANUFACTURING
EQUIPMENT,
REPLACEMENT
PARTS**

CapPlus Technologies
Contract
Pharmaceutical Corp
DJS Enterprises
Elizabeth Carbide Die Co
EquipNet
GCA Products
IMA North America
Key Intl
Mendel Co
MG America
Michael Benait
Molded Fiber Glass
Tray Co
Qualicaps
Torpac

**CAPSULE SLITTING
EQUIPMENT**

Urschel
**CAPSULE SORTING
EQUIPMENT**
AC Compacting LLC
ACG North America LLC
Ackley Machine Corp
Capmatic Ltd
CapPlus Technologies

DJS Enterprises
Driam USA
HealthStar
Keith Machinery Corp
Key Intl
Mendel Co
MG America
Michael Benait
Pharma Technology
Proditec
Qualicaps
Sancilio & Co
Seidenader Equipment
Symetix
Vac-U-Max

**CAPSULE-FILLING
EQUIPMENT**

AC Compacting LLC
ACG North America LLC
Batching Systems
Bosch Packaging Technology, Pharma
CMS Technologies
Contract
Pharmaceutical Corp
CroPharm
DJS Enterprises
EquipNet
ESCO Technologies
Fette Compacting America
HealthStar
IMA North America
Key Intl
MagneMotion
MCC-Measurement Control Corp
Mendel Co
MG America
Michael Benait
Molins
NJM Packaging, Powered by Pro Mach
Qualicaps
Sancilio & Co
Torpac

**CELL CULTURE
EQUIPMENT**

ABEC
AirClean Systems
Apache Stainless
Equipment Corp
Aquasyn LLC
Bel-Art Products
CARON Products Services
Distek
EquipNet
ESCO Technologies
GEA Process Engineering, GEA Pharma Systems
Glen Mills
Lampire Biological Labs
Microfluidics
Pall Corp, Life Sciences Group
Pall Life Sciences, Biopharmaceuticals
Praxair
Wheaton Industries, Wheaton Science Packaging
Xcellerex

**CELL CULTURE
INSTRUMENTATION**

Distek
EquipNet
Hamilton Co, Process Analytics
Pall Corp, Life Sciences Group
Scientific Industries
Wheaton Industries, Wheaton Science Packaging

CENTRIFUGES

3V TECH USA
Alfa Laval

AZO
Cole-Parmer
DJS Enterprises
EquipNet
General Lab & Cleanroom Supply, dba General Lab Supply
Globe Scientific
GMP Systems
HealthStar
Heinkel
Jongia USA
Keith Machinery Corp
Kyte Centrifuge Sales & Consulting
Michael Benait
Perry Videx LLC
PRO Scientific
Qosina
Robatel
SWECO
Western States Machine Co

CHILLERS

Aggreko, North America
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Equipment Corp
Bel-Art Products
BOC, A member of The Linde Group
DJS Enterprises
EquipNet
General Lab & Cleanroom Supply, dba General Lab Supply
GMP Systems
Halco Products Co, Div
Hale Engineering Co
IKA Works
Julabo USA
Keith Machinery Corp
Millrock Technology
Mokon
Praxair
Torrey Pines Scientific
Westfield Sheet Metal Works
CHILLING TANKS
Apache Stainless
Equipment Corp
BOC, A member of The Linde Group
GMP Systems
IKA Works
Keith Machinery Corp
Lee Industries, Process Systems & Equipment/ Fluid Transfer Divs
Paul Mueller Co

**CHROMATOGRAPHY
COLUMNS**

Aquasyn LLC
Biotage
Chem Flowtronics
Cole-Parmer
DJS Enterprises
EquipNet
ES Industries
General Lab & Cleanroom Supply, dba General Lab Supply
Hamilton Co, Process Analytics
Kimble Chase, Life Sciences & Research
Molex, LLC - Polymicro Technologies™
Novasep
Pall Corp, Life Sciences Group
Pall Life Sciences, Biopharmaceuticals
Phenomenex
Restek Corp
Robatel
Sci-Con

SSI/LabAlliance
Waters Corp, Waters Div

**CHROMATOGRAPHY,
GC
PRODUCTION-SCALE**

Advanced Synthesis, Chemical Div
DJS Enterprises
EquipNet
General Lab & Cleanroom Supply, dba General Lab Supply
Phenomenex
Yokogawa Corp of America

**CHROMATOGRAPHY,
HPLC
PRODUCTION-SCALE**

Advanced Synthesis, Chemical Div
Biotage
Cole-Parmer
EquipNet
ES Industries
General Lab & Cleanroom Supply, dba General Lab Supply
Novasep
Phenomenex
SSI/LabAlliance
Waters Corp, Waters Div

**CHROMATOGRAPHY,
SFC
PRODUCTION-SCALE**

EquipNet
ES Industries
Novasep
Phenomenex
Thar Process
Waters Corp, Waters Div

**CHROMATOGRAPHY,
SIMULATED MOVING
BED**

ES Industries
Novasep

CLAMPS

AdvantaPure
Alfa Laval
Bel-Art Products
Chem Flowtronics
EquipNet
Evaporator Dryer Technologies
GMP Systems
Jaygo
Newson Gale
Oetiker
Rubber Fab
Seal Master Corp
Top Line Process Equipment Co
WL Gore & Assocs, Gore PharmBIO Products
Xcellerex

**CLAMPS, HOSE/
TUBE**

AdvantaPure
Bel-Art Products
Bergen Industrial Supply Co
Beswick Engineering Co
Evaporator Dryer Technologies
GMP Systems
Kimble Chase, Life Sciences & Research
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Products
Xcellerex

CLEAN STEAM GENERATORS

AWS Bio-Pharma
Technologies
Getinge USA,
Life Science
GMP Systems
HealthStar
MECO
Paul Mueller Co
Process Tek
Spirax Sarco
Stilmas USA
Telstar North America

CLEAN-IN-PLACE SYSTEMS

A&B Process Systems
Corp, JBT Corporation
ABEC
Allegheny Bradford
Corp, Corporate
American Alloy
Fabricators
Bausch Advanced
Technologies
BEE Intl
BETE Fog Nozzle
Bioengineering
Capmatic Ltd
Custom Powder
Systems.
The Containment Co
Daiichi Jitsugyo
(America),
Pharmaceutical Div
De Dietrich Process
Systems
EquipNet
ESC, Electrol
Specialties Co
ESCO Technologies
Evaporator Dryer
Technologies
F.P.S. Food and Pharma
Systems srl
Feldmeier Equipment
Fluid Air,
Spraying Systems Co

Freund-Vector Corp
Gamajet Cleaning
Systems
GEA Process
Engineering, GEA
Pharma Systems
GEA Tuchenhagen
North America
Girton Mfg Co,
Pharmaceutical Div
GMP Systems
groninger USA LLC,
Marketing
IMA North America
Integrated Containment
Systems
Lancer USA
Lee Industries, Process
Systems & Equipment/
Fluid Transfer Divs
Marion Process
Solutions
McBrady Engineering
Michael Benalt
NETZSCH Premier
Technologies LLC,
Grinding & Dispersing
Nicholson Steam Trap,
Div Circor Intl
Nicos Group
Novasep
Optima Machinery Corp
Paul Mueller Co
Pick Heaters
Pink GmbH
Thermosysteme
Process Tek

Rockwell Automation
Russell Finex
Sani-Matic
Servolift
Spirax Sarco
SPX Flow
Strahman Valves
SWECO
Telstar North America

CLEANING EQUIPMENT, CO₂

McBrady Engineering

CLEANING EQUIPMENT, COMPRESSED-AIR

Cozzoli Machine Co
DJS Enterprises
ENMET
EquipNet
HealthStar
Ingersoll-Rand,
Compressed Air
Solutions
Kaps-All Packaging
Systems
McBrady Engineering
New England Machinery
NexGen Enviro Systems
Nicos Group
Optima Machinery Corp
Sani-Matic
Veltek Assocs

CLEANING EQUIPMENT, RINSING

A&B Process Systems
Corp, JBT Corporation
Alfa Laval
APD Systems
Bel-Art Products
BETE Fog Nozzle
Branson
Ultrasonics Corp
Capmatic Ltd
Cozzoli Machine Co
Custom Powder
Systems.
The Containment Co
EquipNet
ESC, Electrol
Specialties Co
Gamajet Cleaning
Systems
GEA Process
Engineering, GEA
Pharma Systems
GEA Tuchenhagen
North America
Girton Mfg Co,
Pharmaceutical Div
groninger USA LLC,
Marketing
HealthStar
I Holland Ltd
Kaps-All Packaging
Systems
Lancer USA
McBrady Engineering
NexGen Enviro Systems
Nicos Group
Optima Machinery Corp
Sani-Matic
Sioux Corp
Strahman Valves

CLEANING EQUIPMENT, STEAM
A&B Process Systems
Corp, JBT Corporation
AWS Bio-Pharma
Technologies
EquipNet
GEA Process
Engineering, GEA
Pharma Systems
McBrady Engineering
NexGen Enviro Systems
Nicos Group
Optima Machinery Corp
Sani-Matic
Sioux Corp
Strahman Valves

CLEANING EQUIPMENT, VAPOR
AWS Bio-Pharma
Technologies
BIOQUELL,
Life Sciences
McBrady Engineering
Sani-Matic

CLEANING EQUIPMENT, STEAM

A&B Process Systems
Corp, JBT Corporation
AWS Bio-Pharma
Technologies
EquipNet
GEA Process
Engineering, GEA
Pharma Systems
McBrady Engineering
Optima Machinery Corp
Pick Heaters
Sani-Matic

Sioux Corp
Spirax Sarco

CLEANING EQUIPMENT, VAPOR
AWS Bio-Pharma
Technologies
BIOQUELL,
Life Sciences
McBrady Engineering
Sani-Matic

CLEANING EQUIPMENT, WASHING

Alfa Laval
APD Systems
AWS Bio-Pharma
Technologies
Bausch Advanced
Technologies
Bel-Art Products
BETE Fog Nozzle
Branson
Ultrasonics Corp
Champion Trading Corp
Cozzoli Machine Co
Custom Powder
Systems.
The Containment Co
Distek
Dycem
EquipNet
ESC, Electrol
Specialties Co
Gamajet Cleaning
Systems
GEA Process
Engineering, GEA
Pharma Systems
Getinge USA,
Life Science
Girton Mfg Co,
Pharmaceutical Div
groninger USA LLC,
Marketing
HealthStar
I Holland Ltd
L&R Mfg
Labconco Corp
Lancer USA
McBrady Engineering
Miele, Professional
Products Div
Milestone
NexGen Enviro Systems
Nicos Group
Optima Machinery Corp
Perfex Corp
Sani-Matic
Servolift
Sioux Corp
Strahman Valves

COATING EQUIPMENT, COATING PANS
AC Compacting LLC
ACG North America LLC
CapPlus Technologies
Contract
Pharmal Corp
DJS Enterprises
Driam USA
EquipNet
Fluid Air,
Spraying Systems Co
Freund-Vector Corp
319-377-8263
fax 319-377-5574
sales@freund-vector.com
www.f Freund-Vector Corp
See ad on page 47

COATING EQUIPMENT, COATING PANS

AC Compacting LLC
ACG North America LLC
CapPlus Technologies
Contract
Pharmal Corp
DJS Enterprises
Driam USA
EquipNet
Fluid Air,
Spraying Systems Co
Freund-Vector Corp
319-377-8263
fax 319-377-5574
sales@freund-vector.com
www.f Freund-Vector Corp
See ad on page 47

COATING EQUIPMENT, HOT AIR SYSTEMS
AC Compacting LLC
Champion Trading Corp
DJS Enterprises
EquipNet
HealthStar
IMA North America
Keith Machinery Corp
Key Intl
Michael Benalt
Nicos Group
ProCepT

Servolift
Werner Mathis USA,
North America

COATING EQUIPMENT, DRYING OVENS, HUMIDITY CONTROLLED
AWS Bio-Pharma
Technologies
BETE Fog Nozzle
Champion Trading Corp
Contract
Pharmal Corp
Custom Heat LLC
DJS Enterprises
EquipNet
HealthStar
IMA North America
Keith Machinery Corp
Michael Benalt
Nicos Group
Werner Mathis USA,
North America

COATING EQUIPMENT, FILM SPRAYERS

AC Compacting LLC
CapPlus Technologies
Champion Trading Corp
Contract
Pharmal Corp
DJS Enterprises
Driam USA
EquipNet
Freund-Vector Corp
HealthStar
IMA North America
Keith Machinery Corp
Key Intl
Mendel Co
Michael Benalt
Nicos Group
ProCepT
Servolift

COATING EQUIPMENT, FLUIDIZED-BED

AC Compacting LLC
ACG North America LLC
Bosch Packaging
Technology, Pharma
Champion Trading Corp
DJS Enterprises
EquipNet
Fluid Air,
Spraying Systems Co

Freund-Vector Corp

319-377-8263
fax 319-377-5574
sales@freund-vector.com
www.f Freund-Vector Corp
See ad on page 47

GEA Process
Engineering, GEA
Pharma Systems
GEMCO
HealthStar
IMA North America
Keith Machinery Corp
Key Intl
Mendel Co
Michael Benalt
Nicos Group
ProCepT
Romaco North
American
Servolift

COATING EQUIPMENT, HOT AIR SYSTEMS

AC Compacting LLC
Champion Trading Corp
DJS Enterprises
EquipNet
HealthStar
IMA North America

Mendel Co
Michael Benalt
Nicos Group
ProCepT
Servolift
Werner Mathis USA,
North America

COATING EQUIPMENT, STEAM-JACKETED COOKING KETTLES

Apache Stainless
Equipment Corp
DJS Enterprises
EquipNet
Feldmeier Equipment
HealthStar
Keith Machinery Corp
Lee Industries, Process
Systems & Equipment/
Fluid Transfer Divs
Mendel Co
Michael Benalt
Nicos Group
Pick Heaters

COLLATING SYSTEMS (FOR CARTONS, BOTTLES, ETC.)

DJS Enterprises
EquipNet
Garvey Corp

COLLOID MILLS

Arde Barinco, Aerojet
Rocketdyne
BEE Intl
CapPlus Technologies
Charles Ross & Son Co
DJS Enterprises
Draiswerke
EquipNet
Glen Mills
HealthStar
IKA Works
Keith Machinery Corp
Michael Benalt
Nicos Group
Silverson Machines
Verder Scientific,
North America
Waukesha Cherry-
Burrell, An SPX Flow
Brand, SPX Flow

COLOR MATCHING EQUIPMENT

Champion Trading Corp
EquipNet
Keith Machinery Corp
Konica Minolta Sensing
Americas

COMMINUTORS

DJS Enterprises
EquipNet
F.P.S. Food and Pharma
Systems srl
Franklin Miller
Glen Mills
HealthStar
Jet Pulverizer Co
Keith Machinery Corp
NETZSCH Premier
Technologies LLC,
Grinding & Dispersing
Silverson Machines
Urschel

CONNECTORS, FLUID

CPC - Colder
Products Co
Parker domnick hunter
Powder-Solutions
Viega LLC

CONTAINER

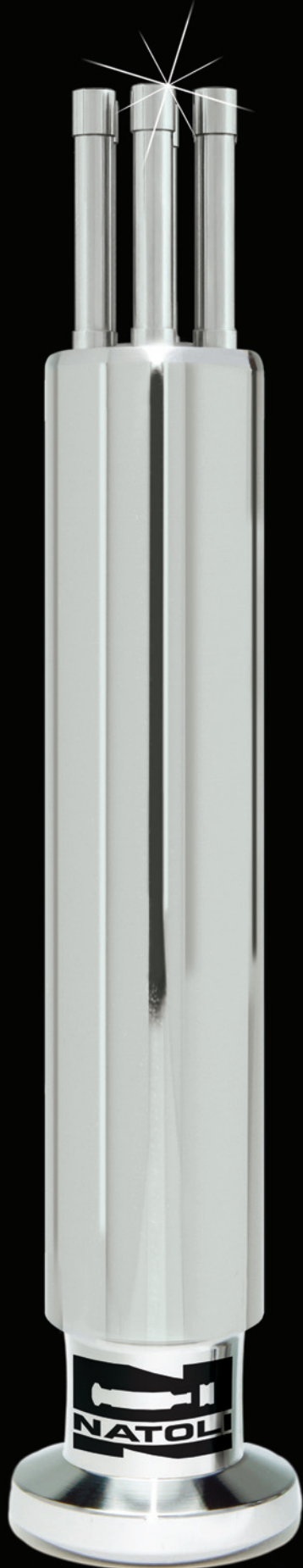
CLEANING EQUIPMENT
BETE Fog Nozzle
BIOQUELL,
Life Sciences
Branson
Ultrasonics Corp
Cozzoli Machine Co
Custom Powder
Systems.
The Containment Co
EquipNet
GEA Process
Engineering, GEA
Pharma Systems
Getinge USA,
Life Science
groninger USA LLC,
Marketing
HealthStar
Integrated Containment
Systems
Kaps-All Packaging
Systems
Micro Measurement
Labs
MO Industries
New England Machinery
NexGen Enviro Systems
Nicholson Steam Trap,
Div Circor Intl
Nicos Group
Optima Machinery Corp
Sani-Matic
Seidenader Equipment
Servolift

CONTAINER DRYING EQUIPMENT

BETE Fog Nozzle
Custom Powder
Systems.
The Containment Co
EquipNet
EXAIR Corp
Getinge USA,
Life Science
MO Industries
Nicos Group
Optima Machinery Corp
Sani-Matic
Seidenader Equipment
Servolift

CONTAINER HANDLING SYSTEMS

ATS Automation Tooling
Systems
Auto-Mate
Technologies LLC
BellatRx
Central Research Labs
Custom Powder
Systems.
The Containment Co
EHS Solutions LLC
EquipNet
Excalibur Miretti
Group LLC
Garvey Corp
groninger USA LLC,
Marketing
HealthStar
Integrated Containment
Systems
Kaps-All Packaging
Systems
MagneMotion
Material Transfer &
Storage
MO Industries
Modular Packaging
Systems
New England Machinery
Nicos Group
Omega Design Corp
Optima Machinery Corp
Process Solutions
Remcon Plastics
Ruland Engineering &
Consulting GmbH
Servolift



MULTI-TIP TOOLING IS YOUR ANSWER

Need to increase your tablet production?

Natoli's multi-tip tooling dramatically increases production, without adding a new tablet press or extending press run time. With innovative tooling designs, superior customer service, and a consultative approach, **Natoli** is your number one choice.

Contact your Natoli representative **TODAY!**

**CONTAINER
PRINTING
EQUIPMENT**

Auto-Mate
Technologies LLC
Control Micro Systems
EquipNet
Label Mill
Matthews Intl Corp,
Matthews Marking
Systems

**CONTROL SYSTEMS,
DISTRIBUTED**

ABB, Process
Automation Div
ADVANCED Motion
Controls
**Charles Ross &
Son Co**
Emerson Process
Mgmt, Systems &
Solutions
EquipNet
ETC, Sterilization
Systems
Festo Corp
GEA Process

Engineering, GEA
Pharma Systems
ICONICS
Rockwell Automation
Siemens Process
Industries + Drives
Spiroflow Systems
Yokogawa Corp
of America

**CONTROL SYSTEMS,
MICROPROCESSOR-
BASED**

ABB, Process
Automation Div
Acricon
ADVANCED Motion
Controls
Automated Control
Concepts
AWS Bio-Pharma
Technologies
AZO
BinMaster, Div Garner
Industries

**Charles Ross &
Son Co**

Climet Instruments Co
Coperion K-Tron
Emerson Process
Mgmt, Systems &
Solutions
EquipNet
Festo Corp
Gas Turbine
Efficiency LLC
GEA Process
Engineering, GEA
Pharma Systems
LT Industries
Mokon
Neutronics
Parker Hannifin,
Electromechanical
Automation Div
Rockwell Automation
Sani-Matic
Siemens Process
Industries + Drives
Spiroflow Systems
Tri-Tronics Co
Vac-U-Max
Yokogawa Corp
of America

CONTROLLERS

ABB, Process
Automation Div
ADVANCED Motion
Controls
Anderson-Negele
Ashcroft
Coperion K-Tron
DJS Enterprises
Durex Industries

Emerson Process
Mgmt, Systems &
Solutions
EquipNet
Festo Corp
GEMU Valves
Goulds Pumps,
ITT Corp
IFM Efector
Krohne
Mettler Toledo PCE,
Product Inspection
Molins
Monitor
Technologies LLC
Prior Scientific
Rockwell Automation
Siemens Building
Technologies
Siemens Process
Industries + Drives
Sierra Instruments
Spiroflow Systems
Vac-U-Max
Walchem IWAKI
America
Yokogawa Corp
of America

CONVEYORS, BELT

APD Systems
ATS Automation Tooling
Systems
Auto-Mate
Technologies LLC
Bausch Advanced
Technologies
BellatRx
Capmatic Ltd
CapPlus Technologies
Champion Trading Corp
Chase-Logeman Corp
DJS Enterprises
EquipNet
ERIEZ
Fenner Drives
FP Developments
Garvey Corp
Global Equipment,
Magnetics Div
Gough Econ
groninger USA LLC,
Marketing
HealthStar
Integrated Packaging
Systems
Kaps-All Packaging
Systems
Keith Machinery Corp
Kraemer US LLC
Lantech
Lock Inspection
Systems
MagneMotion
Magnetics Div, Global
Equipment Mktg
Mettler Toledo PCE,
Product Inspection
Michael Benalt
Modular Packaging
Systems
Nedco Conveyor
Technologies
NJM Packaging,
Powered by Pro Mach
Optima Machinery Corp
Prodo-Pak Corp
Sandvik Process
Systems LLC
Symetix
Universal Industries
Zed Industries

**CONVEYORS, DRY
MATERIAL**

Acricon
APD Systems
AZO
Blower Engineering
Champion Trading Corp
DJS Enterprises
Dynamic Air
EquipNet
Fenner Drives
Garvey Corp
GEA Process
Engineering, GEA
Pharma Systems
Gough Econ
ILC Dover
Kaps-All Packaging
Systems
Keith Machinery Corp
MECO Seal
Michael Benalt
Modular Packaging
Systems
Nedco Conveyor
Technologies
Nilfisk, Industrial
Vacuum Div
Piab
Spiroflow Systems
Symetix
The Young Industries
Universal Industries
Vac-U-Max
Whirlwind Engineering

**CONVEYORS,
ELEVATING AND
DIVIDING**

Auto-Mate
Technologies LLC
DJS Enterprises
EquipNet
ERIEZ
Fenner Drives
FP Developments
Garvey Corp

**CONVEYORS,
CONVERGING AND
DIVIDING**

Auto-Mate
Technologies LLC
DJS Enterprises
EquipNet
ERIEZ
Fenner Drives
FP Developments
Garvey Corp

For vendor contact information, see Company Directory section.

groninger USA LLC,
Marketing
HealthStar
Kaps-All Packaging
Systems
Keith Machinery Corp
MagneMotion
Michael Benalt
Modular Packaging
Systems
Nedco Conveyor
Technologies
New England Machinery
NJM Packaging,
Powered by Pro Mach
Seal Master Corp
Seidenader Equipment
Spiroflow Systems
Symetix

**CONVEYORS, DEAD
PLATE TURNING**

Auto-Mate
Technologies LLC
DJS Enterprises
EquipNet
Fenner Drives
Garvey Corp
groninger USA LLC,
Marketing
Keith Machinery Corp
Michael Benalt
Nedco Conveyor
Technologies
New England Machinery
NJM Packaging,
Powered by Pro Mach

**CONVEYORS, DRY
MATERIAL**

Acricon
APD Systems
AZO
Blower Engineering
Champion Trading Corp
DJS Enterprises
Dynamic Air
EquipNet
Fenner Drives
Garvey Corp
GEA Process
Engineering, GEA
Pharma Systems
Gough Econ
ILC Dover
Kaps-All Packaging
Systems
Keith Machinery Corp
MECO Seal
Michael Benalt
Modular Packaging
Systems
Nedco Conveyor
Technologies
Nilfisk, Industrial
Vacuum Div
Piab
Spiroflow Systems
Symetix
The Young Industries
Universal Industries
Vac-U-Max
Whirlwind Engineering

**CONVEYORS,
ELEVATING**

APD Systems
DJS Enterprises
EquipNet
Fenner Drives
Garvey Corp
Gough Econ
groninger USA LLC,
Marketing
HealthStar
Kaps-All Packaging
Systems
Keith Machinery Corp
Kraemer US LLC
Lantech
MagneMotion
MECO Seal
Michael Benalt

Nedco Conveyor
Technologies
New England Machinery
NJM Packaging,
Powered by Pro Mach
Seidenader Equipment
Spiroflow Systems
Symetix
Universal Industries
Whirlwind Engineering

**CONVEYORS, LIVE
DISK TURNING**

EquipNet
ERIEZ
Fenner Drives
Garvey Corp
Kaps-All Packaging
Systems
Keith Machinery Corp
Nedco Conveyor
Technologies
Spiroflow Systems

**CONVEYORS,
PNEUMATIC**

APD Systems
AZO
Blower Engineering
Airtech, Basco,
Schmidt-Bretten Divs
Systems
DJS Enterprises
Dynamic Air
EquipNet
EXAIR Corp
Fenner Drives
GEA Process
Engineering, GEA
Pharma Systems
HealthStar
ILC Dover
Kaps-All Packaging
Systems
Keith Machinery Corp
Michael Benalt
Nilfisk, Industrial
Vacuum Div
Piab
Spiroflow Systems
Symetix
The Young Industries
Vac-U-Max
Zed Industries

**CONVEYORS,
SCREW**

Acricon
APD Systems
AZO
Bausch Advanced
Technologies
CapPlus Technologies
Chase-Logeman Corp
DJS Enterprises
Dynamic Air
EquipNet
Garvey Corp
groninger USA LLC,
Marketing
HealthStar
Keith Machinery Corp
MECO Seal
Michael Benalt
Spiroflow Systems
Vac-U-Max
Whirlwind Engineering

**CONVEYORS,
SPIRAL**

APD Systems
DJS Enterprises
EquipNet
Garvey Corp
Keith Machinery Corp
Kraemer US LLC
MECO Seal
Nedco Conveyor
Technologies
Spiroflow Systems
Whirlwind Engineering

**CONVEYORS,
VACUUM**

APD Systems
AZO
Bausch Advanced
Technologies
Blower Engineering
DJS Enterprises
Dynamic Air
EquipNet
EXAIR Corp
GEA Process
Engineering, GEA
Pharma Systems
groninger USA LLC,
Marketing
HealthStar
ILC Dover
Keith Machinery Corp
Nilfisk, Industrial
Vacuum Div
Piab
Schenck Process
Spiroflow Systems
The Young Industries
Zed Industries

COOLERS

API Heat Transfer,
Airtech, Basco,
Schmidt-Bretten Divs
Bahnsen Environmental
Specialties,
An EMCOR Co
Bel-Art Products
BOC, A member of
The Linde Group
Carltext
EquipNet
EXAIR Corp
Hutchins & Hutchins,
Cleanroom Equipment
/ Supply Distributor
Kason Corp
Mokon

COOLERS, WALK-IN

Bahnsen Environmental
Specialties,
An EMCOR Co
BOC, A member of
The Linde Group
DJS Enterprises
EquipNet
Harris Environmental
Systems
TRS Containers

COOLING TUNNELS

BOC, A member of
The Linde Group
DJS Enterprises
EquipNet

COUPLINGS, FLUID

CPC - Colder
Products Co
Powder-Solutions
Sierra Instruments
Viega LLC

CRUSHERS

Alexanderwerk
Arde Barinco, Aerojet
Rocketdyne
Bel-Art Products
EquipNet
Franklin Miller
Glen Mills
Keith Machinery Corp
NETZSCH Premier
Technologies LLC,
Grinding & Dispersing
Nicos Group
S&G Enterprises
Servolift
The Young Industries
Verder Scientific,
North America

**CUSTOM
CONTAINERS**

**Charles Ross &
Son Co**
CMW Stainless
Custom Powder
Systems.
The Containment Co
Paul Mueller Co
Pope Scientific
Sani-Matic
Snyder Industries, Dry
Handling & IBC Div
TRS Containers

**DATA-ACQUISITION
SYSTEMS**

ABEC
ACR Systems
Acricon
ASG, Jergens
ATS Automation Tooling
Systems
**Charles Ross &
Son Co**
Climet Instruments Co
Emerson Process

**Mgmt, Systems &
Solutions**

EquipNet
GE Sensing &
Inspection
Technologies
GEA Process
Engineering, GEA
Pharma Systems
Getinge USA,
Life Science
groninger USA LLC,
Marketing
Honeywell, Industrial
Measurement &
Controls Div
ICONICS
Kaps-All Packaging
Systems
Mettler Toledo PCE,
Product Inspection
Process Tek
Rockwell Automation
Sensitech
Siemens Process
Industries + Drives
SMI
Status Instruments
TAL Technologies
Testo
TMI USA
Vaisala
Walchem IWAKI
America
Waters Corp, Waters Div
Yokogawa Corp
of America

DEAERATORS

API Heat Transfer,
Airtech, Basco,
Schmidt-Bretten Divs
Arde Barinco, Aerojet
Rocketdyne
**Charles Ross &
Son Co**
Distek
EKATO Corp
EquipNet
GEA Process
Engineering, GEA
Pharma Systems
Jaygo
Membrana
NETZSCH Premier
Technologies LLC,
Grinding & Dispersing
Pope Scientific
Process Tek
Schutte & Koerting
Spiroflow Systems
Werner Mathis USA,
North America

GEMÜ Quality Products... GEMÜ Quality Service

4212 & 4242 Automation features:

- Class 1 DIV 2, UL & CSA
- Multiple control options: 24 VDC, AS-I, DeviceNet
- Super bright LEDs indicate valve position

Multiport Diaphragm Valve features:

- Thousands of block designs to solve process challenges
- Minimize dead leg and hold up volume for optimal process efficiency

Globe Valve features:

- High cycle life
- Variety of end connections, materials of construction and actuation



550 Globe valve
with 1434
positioner



Multiport

4212 Switch



650 Diaphragm valve
with 4242 switch



For vendor contact information, see Company Directory section.

DEBLISTERERS

DJS Enterprises
EquipNet

DEHUMIDIFIERS

Aggreko, North America
Bahnsen Environmental
Specialties,
An EMCOR Co
EquipNet
GMP Systems
Keith Machinery Corp
Lectrodryer, LLC
Membrana
Munters Corp
WA Hammond Drierite
Co Ltd

DENSITY INSTRUMENTATION, GASES, LIQUIDS, SOLIDS

Anton PAAR USA
Automation Products
EquipNet
GMP Systems
Krohne
Micromeritics
Instrument Corp
Quantachrome
Instruments
Uehling Instrument Co
Yokogawa Corp
of America

DEPYROGENATION SYSTEMS

AWS Bio-Pharma
Technologies
Bausch Advanced
Technologies
Bosch Packaging
Technology, Pharma
Despatch - ITW EAE
EquipNet
ESCO Technologies
groninger USA LLC,
Marketing
HealthStar
Nicos Group
Optima Machinery Corp
Pall Life Sciences,
Biopharmaceuticals
Plasma Etch
Process Tek
Romaco North
American
Telstar North America

DESICCANT FEEDERS

BellatRx
Capmatic Ltd
CapPlus Technologies
DJS Enterprises
EquipNet
HealthStar
Kaps-All Packaging
Systems
Key Intl
Modular Packaging
Systems
New England Machinery
NJM Packaging,
Powered by Pro Mach
Omega Design Corp

DESICCATOR CABINETS AND TOTE BOXES

Bel-Art Products
Blue Thunder
Technologies
EquipNet
General Lab &
Cleanroom Supply,
dba General Lab
Supply
Isolation Systems
Labconco Corp
WA Hammond Drierite
Co Ltd

DETECTORS, METAL

Capmatic Ltd
DJS Enterprises
EquipNet
ERIEZ
Fortress Technology
Global Equipment,
Magnetics Div
HealthStar
Keith Machinery Corp
Key Intl
Kraemer US LLC
Lock Inspection
Systems
Magnetics Div, Global
Equipment Mktg
Rockwell Automation
Rubber Fab

DETERGENTS

Alconox
Bel-Art Products
Decon Labs
Dycem
EquipNet
General Lab &
Cleanroom Supply,
dba General Lab
Supply
International
Products Corp
Labconco Corp
Sioux Corp
Veltek Assocs

DETERGENTS, GERMICIDAL

Decon Labs
EquipNet
Veltek Assocs

DEWAR FLASKS

Apache Stainless
Equipment Corp
EquipNet
General Lab &
Cleanroom Supply,
dba General Lab
Supply
Pope Scientific

DIAFILTRATION (DESALTING) EQUIPMENT

EMD Millipore, A Div
of Merck KGaA
Darmstadt Germany
EquipNet
GEA Process
Engineering, GEA
Pharma Systems
Novasep
Pall Corp,
Life Sciences Group
Pall Life Sciences,
Biopharmaceuticals
Parker domnick hunter

DIAMOND DUST POLISHING COMPOUND

EquipNet
I Holland Ltd

DIGITAL INDICATORS, ELECTRONIC

ACR Systems
Anderson-Negele
Ashcroft
ATAGO USA
Atlantic Scale Co
EquipNet
First Sensor
FSI Technologies
GE Sensing &
Inspection
Technologies
Krohne
Mettler Toledo PCE,
Product Inspection
Status Instruments

Two Dimensional
Instruments
Yokogawa Corp
of America

DIGITAL METERS

Anton PAAR USA
Ashcroft
ATAGO USA
Automation Products
Beamex
DJS Enterprises
EquipNet
GMP Systems
Kaps-All Packaging
Systems
Krohne
Status Instruments
Testo
Two Dimensional
Instruments
Yokogawa Corp
of America

DISINFECTANTS

Benchmark Products
Blue Thunder
Technologies
Clordisys Solutions
Contec
Decon Labs
DJS Enterprises
Dycem
Edgeco
EquipNet
General Lab &
Cleanroom Supply,
dba General Lab
Supply
Lancer USA
Veltek Assocs

DISINFECTANTS, AEROSOL

Benchmark Products
Blue Thunder
Technologies
Edgeco
EquipNet
Process Tek
Veltek Assocs

DISPENSERS, LIQUID AND POWDER

Apache Stainless
Equipment Corp
Bausch Advanced
Technologies
Blue Thunder
Technologies
Cozzoli Machine Co
Edgeco
EquipNet
Filamatic, National
Instrument LLC
Fluid Metering
HealthStar
ILC Dover
Indco
IVEK Corp
Kaps-All Packaging
Systems
Keith Machinery Corp
Oyster Bay Pump Works
Veltek Assocs
Westfield Sheet
Metal Works

DISSOLVERS, SUGAR

Arde Barinco, Aerojet
Rocketdyne
Draiswerke
EquipNet
GEA Process
Engineering, GEA
Pharma Systems
ILC Dover
Keith Machinery Corp

Ruland Engineering &
Consulting GmbH
Silverson Machines

DISTILLATION COLUMNS, STAINLESS AND ALLOY

3V TECH USA
Chem Flowtronics
Chemical Transfer
Partnership Corp,
(CTP Corp)
JLS Intl
Samuel Pressure Vessel
Group, Tomahawk
Wintek Corp

DISTILLATION EQUIPMENT, LABILE MATERIALS AND WIPE FILM

3V TECH USA
Advanced Synthesis,
Chemical Div
APV, An SPX Brand,
SPX Flow Technology
Chemical Transfer
Partnership Corp,
(CTP Corp)
De Dietrich Process
Systems
DJS Enterprises
EquipNet
GEA Process
Engineering, GEA
Pharma Systems
General Lab &
Cleanroom Supply,
dba General Lab
Supply
ILC Dover
JLS Intl
Milestone
Myers Vacuum Repair
Services
NexGen Enviro Systems
Perry Videx LLC
Pope Scientific
The ChemPro Group
Wintek Corp

DOLLIES

Akro-Mils
DJS Enterprises
EquipNet
Hurst Corp
Isolation Systems
Liftomatic Material
Handling
MO Industries
Morse Mfg Co
Servolift

DOOR SYSTEMS (DOORS, FRAMES, HARDWARE, SEALS)

Central Research Labs
EquipNet
Erich Industries
Isolation Systems
Nergco Entrematic,
Entrematic HPD
Nicos Group
Simplex Isolation
Systems, TMI
International LLC

DRUM LIFTING EQUIPMENT

APD Systems
CapPlus Technologies
Champion Trading Corp
Custom Powder
Systems.
The Containment Co
DJS Enterprises
Edgeco
EHS Solutions LLC
EquipNet
Excalibur Miretti
Group LLC

GEMCO
Integrated Containment
Systems
Interthor
Isolation Systems
Liftomatic Material
Handling
Material Transfer &
Storage
MO Industries
Morse Mfg Co
Nicos Group
Process Solutions
R on I
Servolift
Spiroflow Systems
UniTech Industries
Vac-U-Max

DRUM WASHING MACHINES

Custom Powder
Systems.
The Containment Co
DJS Enterprises
EquipNet
Gamajet Cleaning
Systems
Girton Mfg Co,
Pharmaceutical Div
Lancer USA
MO Industries
Nicos Group
Sani-Matic
Servolift
Werner Mathis USA,
North America

DRUMS (SEE ALSO PACKAGING EQUIPMENT AND MATERIALS SECTION)

Apache Stainless
Equipment Corp
DJS Enterprises
EquipNet
MO Industries
Nicos Group
Process Solutions
Remcon Plastics
Servolift

DRY ROOMS

Bahnsen Environmental
Specialties,
An EMCOR Co
EquipNet

DRYERS (SEE ALSO LABORATORY EQUIPMENT AND SUPPLIES SECTION)

3V TECH USA
BHS-Filtration
Champion Trading Corp
Charles Ross & Son Co
Crown Iron Works Co,
Specialty Extraction
EquipNet
Custom Heat LLC
De Dietrich Process
Systems
Despatch - ITW EAE
DJS Enterprises
Draiswerke
EquipNet
Evaporator Dryer
Technologies

Freund-Vector Corp

GEA Process
Engineering, GEA
Pharma Systems
GEMCO
Girton Mfg Co,
Pharmaceutical Div
Globe Scientific
Hosokawa Micron
Powder Systems
Isolation Systems
Jaygo
JLS Intl
Komline-Sanderson

Lancer USA
Liberty Industries
Marion Process
Solutions
McGill AirPressure LLC
ProCept
Steri Technologies
Telstar North America
TPS
WA Hammond Drierite
Co Ltd
Werner Mathis USA,
North America

DRYERS, AIR

BETE Fog Nozzle
Coperion K-Tron
Custom Heat LLC
Despatch - ITW EAE
DJS Enterprises
Dynamic Air
EquipNet
Evaporator Dryer
Technologies
EXAIR Corp
Hosokawa Micron
Powder Systems
Ingersoll-Rand,
Compressed Air
Solutions
Isolation Systems
JLS Intl
Keith Machinery Corp
Lectrodryer, LLC
Liberty Industries
Optima Machinery Corp
Parker Hannifin
Pink GmbH
Thermosysteme
RJM Sales
WA Hammond Drierite
Co Ltd
Werner Mathis USA,
North America
Wyssmont Co

DRYERS, CENTRIFUGAL

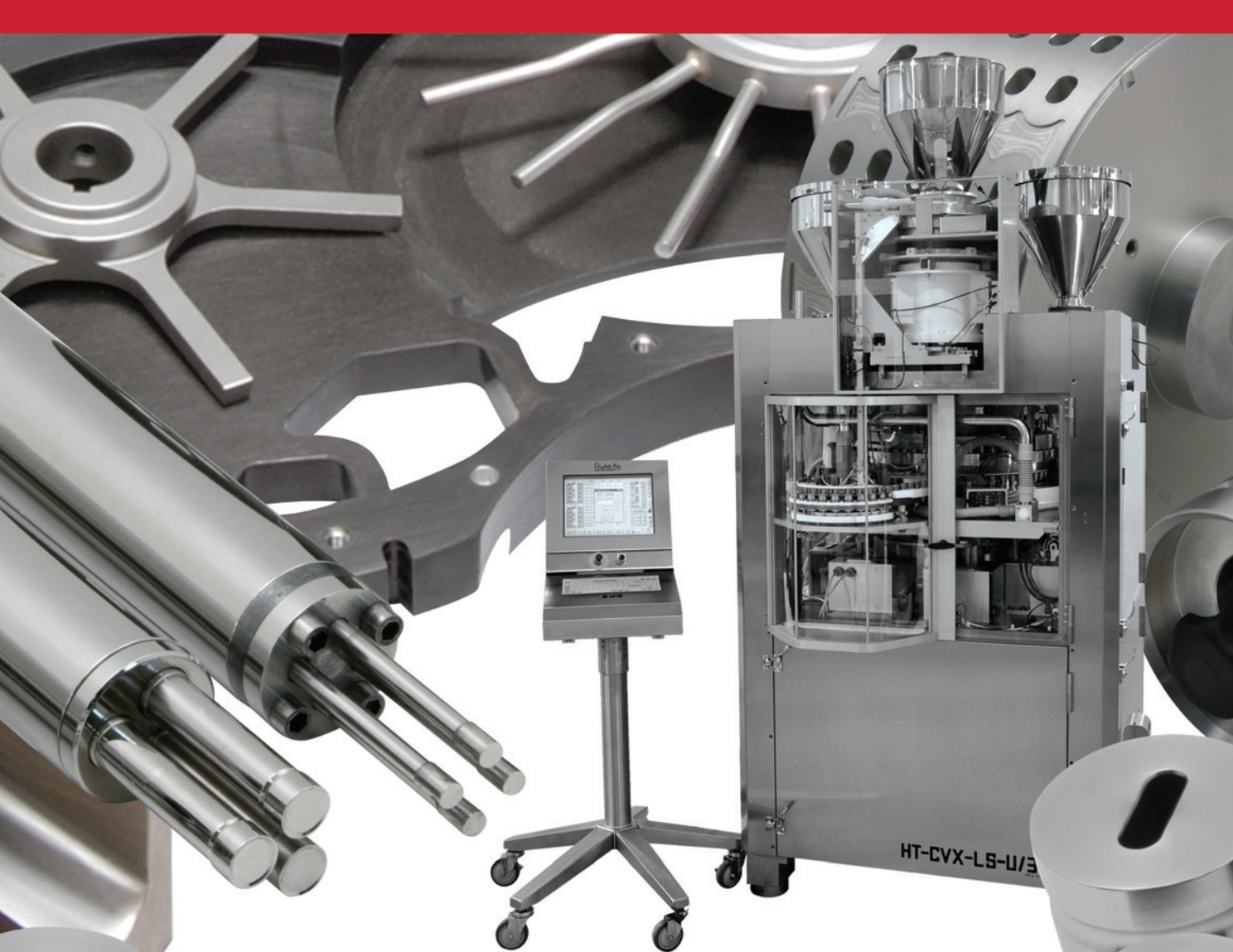
3V TECH USA
DJS Enterprises
EquipNet
GEA Process
Engineering, GEA
Pharma Systems
HealthStar
Hosokawa Micron
Powder Systems
Robatel

DRYERS, CONTINUOUS

BHS-Filtration
Crown Iron Works Co,
Specialty Extraction
De Dietrich Process
Systems
Despatch - ITW EAE
DJS Enterprises
Draiswerke
Dynamic Air
EquipNet
GEA Process
Engineering, GEA
Pharma Systems
Hosokawa Micron
Powder Systems
JLS Intl
Komline-Sanderson
Lectrodryer, LLC
Perry Videx LLC
Steri Technologies
Werner Mathis USA,
North America
Wyssmont Co

DRYERS, DRUM

Champion Trading Corp
Custom Heat LLC
Draiswerke
EquipNet
GEA Process
Engineering, GEA
Pharma Systems



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GEMCO
Girton Mfg Co,
Pharmaceutical Div
Hosokawa Micron
Powder Systems
JLS Intl
Keith Machinery Corp
McGill AirPressure LLC
MECO Seal
WA Hammond Drierite
Co Ltd
Werner Mathis USA,
North America

DRYERS, FLASH

Crown Iron Works Co,
Specialty Extraction
EquipNet
Evaporator Dryer
Technologies
GEA Process
Engineering, GEA
Pharma Systems
Hosokawa Micron
Powder Systems
Jaygo
SPX Flow
The ChemPro Group

DRYERS, FLUID-BED

AC Compacting LLC
CapPlus Technologies
Champion Trading Corp
Charles Ross & Son Co
Crown Iron Works Co,
Specialty Extraction
Daichi Jitsugyo
(America),
Pharmaceutical Div
DJS Enterprises
Draiswerke
Dynamic Air
EquipNet
Evaporator Dryer
Technologies
Fluid Air,
Spraying Systems Co
Freund-Vector Corp
GEA Process
Engineering, GEA
Pharma Systems
Glen Mills
HealthStar
IMA North America
Kason Corp
Kavon Filter
Products Co
Keith Machinery Corp
Key Intl
MECO Seal
Mendel Co
Nicos Group
ProCepT
Romaco North
American
Servolift
SP Scientific - HULL/
VIRTIS/FTS
SPX Flow
Verder Scientific,
North America

DRYERS, PADDLE

3V TECH USA
Charles Ross & Son Co
Chem Flowtronics
Crown Iron Works Co,
Specialty Extraction
DJS Enterprises
Draiswerke
Dynamic Air
EquipNet
GEA Process
Engineering, GEA
Pharma Systems
GEMCO
Heinkel
Hosokawa Micron
Powder Systems
Jaygo
Jongia USA

Keith Machinery Corp
Komline-Sanderson
Perry Videx LLC

DRYERS, ROTATING TRAY

3V TECH USA
Advanced Synthesis,
Chemical Div
Chem Flowtronics
EquipNet
GEA Process
Engineering, GEA
Pharma Systems
GEMCO
HealthStar
Heinkel
Keith Machinery Corp
MECO Seal
Perry Videx LLC
Pink GmbH
Thermosysteme
Wyssmont Co

DRYERS, SELF-CLEANING

Chem Flowtronics
Crown Iron Works Co,
Specialty Extraction
DJS Enterprises
EquipNet
Hosokawa Micron
Powder Systems
Jaygo
Nicos Group
Sani-Matic

DRYERS, SPRAY

AC Compacting LLC
BETE Fog Nozzle
DJS Enterprises
EquipNet
Evaporator Dryer
Technologies
GEA Process
Engineering, GEA
Pharma Systems
HealthStar
Keith Machinery Corp
Mendel Co
Perry Videx LLC
ProCepT
SPX Flow

DRYERS, TRAYS FOR SOFT GELATIN CAPSULES

CapPlus Technologies
Daichi Jitsugyo
(America),
Pharmaceutical Div
DJS Enterprises
EquipNet
JLS Intl
Molded Fiber Glass
Tray Co
Pink GmbH
Thermosysteme
Wyssmont Co

DRYERS, TRUCK, SHELF AND VACUUM

EquipNet
F.P.S. Food and Pharma
Systems srl
GEMCO
Jaygo
JLS Intl
Jongia USA
McGill AirPressure LLC
Pink GmbH
Thermosysteme
Steri Technologies
Telstar North America
WA Hammond Drierite
Co Ltd

DRYERS, VACUUM AGITATION

Charles Ross & Son Co
Chem Flowtronics

For vendor contact information, see Company Directory section.

De Dietrich Process
Systems
Draiswerke
EKATO Corp
EquipNet
GEA Process
Engineering, GEA
Pharma Systems
GEMCO
HealthStar
Heinkel
Hosokawa Micron
Powder Systems
Jaygo
JLS Intl
Jongia USA
Komline-Sanderson
McGill AirPressure LLC
Pink GmbH
Thermosysteme
ProCepT
Servolift

DRYERS, VACUUM TUMBLE

3V TECH USA
Advanced Synthesis,
Chemical Div
Charles Ross & Son Co
Chem Flowtronics
De Dietrich Process
Systems
DJS Enterprises
EquipNet
GEA Process
Engineering, GEA
Pharma Systems
GEMCO
Jaygo
McGill AirPressure LLC
Patterson Kelley
Perry Videx LLC

DRYERS, VACUUM VIBRATION

Chem Flowtronics
DJS Enterprises
EquipNet
GEA Process
Engineering, GEA
Pharma Systems
GEMCO
Hosokawa Micron
Powder Systems
Komline-Sanderson
McGill AirPressure LLC

DUCTING

A&B Process Systems
Corp, JBT Corporation
Nordfab Ducting

DUST COLLECTION DUCTING

Nordfab Ducting
Schenck Process

ELECTRICAL EQUIPMENT, GENERATORS

Aggreko, North America
Control Instruments
Corp
EquipNet
GMP Systems

ELECTRICAL EQUIPMENT, MOTORS AND CONTROLS

ADVANCED Motion
Controls
Custom Heat LLC
EquipNet
Festo Corp
FSI Technologies
GMP Systems
IFM Efector
Parker Hannifin Corp
Rockwell Automation

Siemens Process
Industries + Drives
Stainless Motors

ELECTRONIC TEST EQUIPMENT

ACR Systems
ASG, Jergens
Automation Products
Beamex
Bruker AXS
EquipNet
GMP Systems
Kaps-All Packaging
Systems
LT Industries
moisttech
Seidenader Equipment
Yokogawa Corp
of America

EMISSIONS CONTROL

ABB Measurement &
Analytics
Anquil Environmental
Systems
BinMaster, Div Garner
Industries
CECO Environmental
E Instruments Intl
Goyen Valve LLC,
Pentair Environmental
Systems
Isolation Systems
Neutronics
Praxair

ENERGY RECOVERY SYSTEMS

ADI Systems
Anquil Environmental
Systems
GEA Process
Engineering, GEA
Pharma Systems
Munters Corp
The ChemPro Group

EQUIPMENT COVERS

Bel-Art Products
Benchmark Products
DJS Enterprises
Fibergrate Composite
Structures
GMP Systems
TRAX Industrial
Curtains

EQUIPMENT INSTALLATION

A&B Process Systems
Corp, JBT Corporation
APD Systems
ASG, Jergens
AWS Bio-Pharma
Technologies
BellatRx
BIOQUELL,
Life Sciences
Bosch Packaging
Technology, Pharma
DJS Enterprises
Evaporator Dryer
Technologies
Fluid Air,
Spraying Systems Co
FP Developments
Isolation Systems
Magnatech LLC
Paul Mueller Co
Qualicaps
Ruland Engineering &
Consulting GmbH
Sani-Matic

EQUIPMENT LEASING & FINANCING

DJS Enterprises

ESD MONITORING AND DETECTION SYSTEMS

ABB, Process
Automation Div
Amstat Industries
Blue Thunder
Technologies
EXAIR Corp
General Lab &
Cleanroom Supply,
dba General Lab
Supply
Isolation Systems
Mettler Toledo PCE,
Product Inspection

EVAPORATORS, TUBULAR

3V TECH USA
API Heat Transfer,
Airtech, Basco,
Schmidt-Bretten Divs
APV, An SPX Brand,
SPX Flow Technology
EquipNet
Evaporator Dryer
Technologies
Feldmeier Equipment
GEA Process
Engineering, GEA
Pharma Systems
Novasep
Perry Videx LLC
Pope Scientific
Samuel Pressure Vessel
Group, Tomahawk

EVAPORATORS, WIPED-FILM

3V TECH USA
Advanced Synthesis,
Chemical Div
Alfa Laval
APV, An SPX Brand,
SPX Flow Technology
Chemical Transfer
Partnership Corp,
(CTP Corp)
De Dietrich Process
Systems
EquipNet
Evaporator Dryer
Technologies
GEA Process
Engineering, GEA
Pharma Systems
JLS Intl
Keith Machinery Corp
Myers Vacuum Repair
Services
Novasep
Perry Videx LLC
Pope Scientific
Samuel Pressure Vessel
Group, Tomahawk

EXPLOSION PROTECTION EQUIPMENT

BellatRx
Clean Air Technologies
O/A Eurovac
Continental Disc Corp
EHS Solutions LLC
Evaporator Dryer
Technologies
GEA Process
Engineering, GEA
Pharma Systems
ILC Dover
Isolation Systems
Neutronics
Newson Gale
Oseco
Stainless Motors

EXTRACTION, SUPER-CRITICAL FLUID

Crown Iron Works Co,
Specialty Extraction
Robatel

EXTRACTORS

Crown Iron Works Co,
Specialty Extraction
GEA Process
Engineering, GEA
Pharma Systems
Isolation Systems
Kyte Centrifuge Sales &
Consulting
Milestone
Robatel
Steri Technologies
The ChemPro Group
Western States
Machine Co

EXTRUDERS

AC Compacting LLC
Charles Ross & Son Co
Contract
Pharmaceutical Corp
CW Brabender
Instruments
Jaygo
Kason Corp
KNF Corp
Leistriz, Extrusion
MECO Seal
Mendel Co
Oseco
Perry Videx LLC
ProCepT
Readco Kurimoto LLC
Sigma Equipment Corp
Thermo Fisher Scientific,
Materials and
Structural Analysis

EXTRUDERS, HOT MELT

AC Compacting LLC
Charles Ross & Son Co
CW Brabender
Instruments
Jaygo
Leistriz, Extrusion
MECO Seal
ProCepT
Thermo Fisher Scientific,
Materials and
Structural Analysis

FABRICATIONS, SPECIAL

A&B Process Systems
Corp, JBT Corporation
Allegheny Bradford
Corp, Corporate
Apache Stainless
Equipment Corp
Bel-Art Products
Bustin Industrial
Products
Charles Ross & Son Co
Contract
Pharmaceutical Corp
Custom Powder
Systems.
The Containment Co
Feldmeier Equipment
Garvey Corp
GMP Systems
Integrated Containment
Systems
Isolation Systems
JLS Intl
Mendel Co
Process Solutions
Safety Equipment Corp
Samuel Pressure Vessel
Group, Tomahawk
Sani-Matic
Seal Master Corp
Top Line Process
Equipment Co
Zed Industries



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biotech

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+ BIOSTAT STR® 2000

+ Flexsafe® Bags

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Increased Titers

Quality by Design

Robust Production

For vendor contact information, see Company Directory section.

FACILITY MONITORING SYSTEMS

Climet Instruments Co
Festo Corp
GE Sensing & Technologies
Goyen Valve LLC,
Pentair Environmental Systems
Mesa Labs, Cold Chain
Mil-Ram Technology
Vaisala
Veltek Assocs

FEEDERS, GRAVIMETRIC

Dynamic Air
Schenck Process
Thermo Fisher Scientific,
Materials and Structural Analysis

FEEDERS, VIBRATORY

ASG, Jergens
Batching Systems
Capmatic Ltd
Dynamic Air
ERIEZ
Gough Econ
Schenck Process
Symetix
Verder Scientific,
North America

FEEDERS, VOLUMETRIC

Batching Systems
Dynamic Air
Schenck Process
Wyssmont Co

FEEDERS, WEIGH

Batching Systems
Dynamic Air
Schenck Process

FERMENTATION EQUIPMENT

Bioengineering
Bioengineering AG
Chem Flowtronics
DCI-Biolafitte
Eppendorf
Pope Scientific
Praxair
Samuel Pressure Vessel
Group, Tomahawk
**Sartorius Stedim
North America**

FERMENTATION SEPARATION/PURIFICATION SYSTEMS

Bioengineering

FILLING MACHINE FILTERS

DJS Enterprises
Domnick microBAN
GMP Systems
Keith Machinery Corp
Pall Life Sciences,
Biopharmaceuticals
Rubber Fab

FILTER CARTRIDGES

3M Purification
AAF Flanders
Bergen Industrial
Supply Co
Buffalo Filter
Clean Air Technologies
O/A Eurovac
Domnick microBAN
EquipNet
ERE
ErtelAlsop

Flanders Corp,
Containment Products
GMP Systems
Isolation Systems
JLS Intl
Medro Systems
Menardi
Pall Corp,
Life Sciences Group
Pall Life Sciences,
Biopharmaceuticals
Parker domnick hunter
Parker Hannifin
Parker Hannifin Corp
Plymovent NA
Powder-Solutions
RJM Sales
**Sartorius Stedim
North America**
Schenck Process
Sefar

FILTER HOUSING AND HARDWARE

3M Purification
AAF Flanders
Allegheny Bradford
Corp, Corporate
Apache Stainless
Equipment Corp
BHS-Filtration
BioDesign of New York
Buffalo Filter
Clean Air Technologies
O/A Eurovac
Domnick microBAN
EquipNet
ERE
ErtelAlsop
Flanders Corp,
Containment Products
GMP Systems
JLS Intl
MultiTherm LLC
Pall Corp,
Life Sciences Group
Pall Life Sciences,
Biopharmaceuticals
Parker domnick hunter
Parker Hannifin
Parker Hannifin Corp
Plymovent NA
RJM Sales
Samuel Pressure Vessel
Group, Tomahawk
Sani-Matic
**Sartorius Stedim
North America**

FILTER MEDIA

3V TECH USA
Avery Filter Co
ERE
GMP Systems
Jaygo
Kavon Filter
Products Co
Komline-Sanderson
Powder-Solutions
**Sartorius Stedim
North America**
Schenck Process
Sefar

FILTER PLATES

3V TECH USA
Avery Filter Co
GMP Systems
Jaygo
Phenomenex

FILTER PRECOATS

GMP Systems
Komline-Sanderson

FILTER PRESSES

Avery Filter Co
GMP Systems

FILTER TESTING

3V TECH USA
GMP Systems

Parker domnick hunter
**Sartorius Stedim
North America**

FILTER UNITS, FABRICATED

Chem Flowtronics
CleanZones LLC
GMP Systems
Kavon Filter
Products Co
Komline-Sanderson
Pope Scientific
Sefar
Vac-U-Max

FILTERS, AGITATED

3V TECH USA
Chem Flowtronics
GMP Systems
Heinkel
Jaygo
Jongia USA
Pope Scientific
ProCepT
Steri Technologies

FILTERS, CAKE WASHING

3V TECH USA
Avery Filter Co
GMP Systems
Jaygo
Jongia USA
Kavon Filter
Products Co
Komline-Sanderson
Pope Scientific
Sefar
Steri Technologies

FILTERS, COMPRESSED-AIR

GMP Systems
Samuel Pressure Vessel
Group, Tomahawk
Vac-U-Max

FILTERS, CONTINUOUS

GMP Systems
Komline-Sanderson
Vac-U-Max

FILTERS, DISPOSABLE

Cole-Parmer
GMP Systems
Kavon Filter
Products Co
Parker domnick hunter
**Sartorius Stedim
North America**

FILTERS, GLASS

3V TECH USA
Chem Flowtronics
GMP Systems
Parker domnick hunter
Phenomenex

FILTERS, HOLLOW-FIBER

GMP Systems
Parker domnick hunter

FILTERS, MAGNETIC

Global Equipment,
Magnetics Div
GMP Systems
Magnetics Div, Global
Equipment Mktg
Powder-Solutions

FILTERS, MEMBRANE

ABEC Filtration Systems
Asahi Kasei Chemical
Corp/Asahi Kasei
America, Functional
Additives Div

Avestin
Cole-Parmer
GMP Systems
Medro Systems
Parker domnick hunter
**Sartorius Stedim
North America**

FILTERS, MICROFILTRATION

Avestin
GMP Systems
Parker domnick hunter

FILTERS, NUTSCHE

3V TECH USA
Chem Flowtronics
Chemical Transfer
Partnership Corp,
(CTP Corp)
Heinkel
Jaygo
Jongia USA
Kavon Filter
Products Co
Pope Scientific
ProCepT
Samuel Pressure Vessel
Group, Tomahawk
Sefar
Steri Technologies

FILTERS, NYLON 66

Kavon Filter
Products Co
Parker domnick hunter
Phenomenex
Sefar

FILTERS, PAPER

Avery Filter Co
**Sartorius Stedim
North America**

FILTERS, POLYPROPYLENE (GAS AND LIQUID)

GMP Systems
Kavon Filter
Products Co
Parker domnick hunter
Phenomenex
**Sartorius Stedim
North America**
Sefar

FILTERS, PRESSURE

3V TECH USA
Avery Filter Co
GMP Systems
Heinkel
Jaygo
Kavon Filter
Products Co
Pope Scientific
Samuel Pressure Vessel
Group, Tomahawk
Steri Technologies

FILTERS, PTFE (AIR AND LIQUID)

Chem Flowtronics
Cole-Parmer
GMP Systems
Kavon Filter
Products Co
Parker domnick hunter
Phenomenex
**Sartorius Stedim
North America**
Sefar
Vac-U-Max

FILTERS, REVERSE-OSMOSIS

GMP Systems
Kavon Filter
Products Co
Medro Systems

Samuel Pressure Vessel
Group, Tomahawk
Vac-U-Max

FILTERS, ROTARY DRUM

3V TECH USA
Avery Filter Co
GMP Systems
Kavon Filter
Products Co
Komline-Sanderson
Nash, by Gardner
Denver
Sefar

FILTERS, SELF-CLEANING

3M Purification
Anguil Environmental
Systems
GMP Systems
JLS Intl
Kyte Centrifuge Sales &
Consulting
Menardi
Plymovent NA
Russell Finex
Steri Technologies
Vac-U-Max

FILTERS, STEAM

3M Purification
Domnick microBAN
EquipNet
G-M-I
GMP Systems
Kavon Filter
Products Co
Nicholson Steam Trap,
Div Circor Intl
Pall Corp,
Life Sciences Group
Pall Life Sciences,
Biopharmaceuticals
Process Tek
Spirax Sarco

FILTERS, TANGENTIAL-FLOW

EquipNet
GEA Process
Engineering, GEA
Pharma Systems
General Lab &
Cleanroom Supply,
dba General Lab
Supply
GMP Systems
Microdyn Technologies
Novasep
Pall Corp,
Life Sciences Group
Pall Life Sciences,
Biopharmaceuticals
Parker domnick hunter
Process Tek

FILTERS, ULTRAFILTRATION

AAF Flanders
BioDesign of New York
Buffalo Filter
EquipNet
ERE
Flanders Corp,
Containment Products
G-M-I
GEA Process
Engineering, GEA
Pharma Systems
General Lab &
Cleanroom Supply,
dba General Lab
Supply
GMP Systems
Isolation Systems
JLS Intl
Kavon Filter
Products Co
Labconco Corp

LM Air Technology,
Cleanroom & Lab
Equipment
Microdyn Technologies
Novasep
Pall Corp,
Life Sciences Group
Pall Life Sciences,
Biopharmaceuticals
Parker domnick hunter
Parker Hannifin Corp
Rees Scientific
Samuel Pressure Vessel
Group, Tomahawk
**Sartorius Stedim
North America**

FILTERS, VACUUM

3V TECH USA
BHS-Filtration
Blower Engineering
Buffalo Filter
Clean Air Technologies
O/A Eurovac
Cole-Parmer
Coperion K-Tron
De Dietrich Process
Systems
EquipNet
G-M-I
GMP Systems
JLS Intl
Jongia USA
Kavon Filter
Products Co
Keith Machinery Corp
Komline-Sanderson
Menardi
Nilfisk, Industrial
Vacuum Div
Pall Corp,
Life Sciences Group
Pall Life Sciences,
Biopharmaceuticals
Piab
Pope Scientific
Sefar
The Young Industries
Vac-U-Max

FILTERS, VIRUS REMOVAL

3M Purification
AAF Flanders
Buffalo Filter
Domnick microBAN
EquipNet
ErtelAlsop
Flanders Corp,
Containment Products
GEA Process
Engineering, GEA
Pharma Systems
GMP Systems
Pall Corp,
Life Sciences Group
Pall Life Sciences,
Biopharmaceuticals
**Sartorius Stedim
North America**

FITTINGS, CLAMP

AdvantaPure
Alfa Laval
Bel-Art Products
Bergen Industrial
Supply Co
De Dietrich Process
Systems
EquipNet
GMP Systems
Jaygo
LJ Star
Oetiker
Parker Hannifin Corp
Powder-Solutions
QualiTru Sampling
Systems
Rubber Fab
Seal Master Corp
Top Line Process
Equipment Co
VNE Corp



sartorius stedim
biotech

Connect Upstream

=

Sartorius Stedim Biotech

Integrated Upstream Platform – From Cell Line to Manufacturing

Sartorius Stedim Biotech has come up with the first fully integrated upstream platform: It connects a top-performing expression system with outstanding equipment and process control for the rapid development and scale-up of robust, high-titer commercial manufacturing processes. www.connect-upstream.com



Speed to Clinic

Increased Titers

Quality by Design

Robust Production

For vendor contact information, see Company Directory section.

FITTINGS, PTFE

(TUBE-TYPE)

AdvantaPure
Bel-Art Products
Bergen Industrial Supply Co
Chem Flowtronics
Clean Air Technologies
O/A Eurovac
Cole-Parmer
CPC - Colder Products Co
CPV Mfg
EquipNet
GMP Systems
Parker domnick hunter
Parker Hannifin Corp
Rubber Fab
Ryan Herco Flow Solutions
Top Line Process Equipment Co
VNE Corp

FITTINGS, QUICK

DISCONNECT

Chem Flowtronics
CPC - Colder Products Co
Powder-Solutions
Top Line Process Equipment Co

FITTINGS, QUICK-CONNECT

AdvantaPure
Asahi/America
Bel-Art Products
Bergen Industrial Supply Co
Beswick Engineering Co
Chem Flowtronics
Cole-Parmer
CPC - Colder Products Co
EquipNet
Festo Corp
GMP Systems
Justrite Mfg Co
Oetiker
Parker domnick hunter
Parker Hannifin Corp
Powder-Solutions
Rubber Fab
Seal Master Corp
The Young Industries
Top Line Process Equipment Co
Viega LLC

FITTINGS, SANITARY

BEVEL-SEAT

AdvantaPure
Bergen Industrial Supply Co
Chem Flowtronics
EquipNet
GMP Systems
Process Tek
QualiTru Sampling Systems
Rubber Fab
Top Line Process Equipment Co
TW Metals
VNE Corp

FITTINGS, SANITARY

BUTT-WELD

AdvantaPure
Alfa Laval
Asahi/America
Bergen Industrial Supply Co
Chem Flowtronics
CPC - Colder Products Co
EquipNet
GMP Systems
Process Tek
QualiTru Sampling Systems

Rubber Fab
The Young Industries
Top Line Process Equipment Co
TW Metals
VNE Corp

FITTINGS, SANITARY

BUTT-WELD, AUTOMATIC

Bergen Industrial Supply Co
Chem Flowtronics
EquipNet
GMP Systems
Process Tek
Rubber Fab
Top Line Process Equipment Co
TW Metals
VNE Corp

FITTINGS, TANKER

(AND ACCESSORIES)

GMP Systems

FITTINGS, TUBE OD

BUTT-WELD

CPC - Colder Products Co
GMP Systems
QualiTru Sampling Systems
Top Line Process Equipment Co

FLEXIBLE CONTAINMENT SYSTEMS

ESCO Technologies
ILC Dover
Key Intl
Powder-Solutions

FLOOR DRAINS

Fibergate Composite Structures

FLOW MEASUREMENT

INSTRUMENTATION

Ametek Brookfield, Instrumentation & Specialty Controls
Division Street
ATS RheoSystems,
Cannon Instrument Co
BinMaster, Div Garner Industries

Charles River, Microbial Solutions

Chemical Transfer Partnership Corp, (CTP Corp)
First Sensor
GEMU Valves
GMP Systems
Hoffer Flow Controls
InterTech Development Co
Monitor Technologies LLC
Parker domnick hunter
Sierra Instruments

FLOW TRANSMITTERS

GMP Systems
Hoffer Flow Controls
Parker domnick hunter
Sierra Instruments

FLUID-BED EQUIPMENT

AC Compacting LLC
Bosch Packaging Technology, Pharma
Coating Place Contract
Pharmaceutical Corp

Daiichi Jitsugyo (America), Pharmaceutical Div
DJS Enterprises
Draiswerke
Evaporator Dryer Technologies
Fluid Air, Spraying Systems Co

Freund-Vector Corp

319-377-8263
fax 319-377-5574
sales@freund-vector.com
www.f Freund-vector.com

See ad on page 47

GEA Process Engineering, GEA Pharma Systems

HealthStar
IMA North America
Kason Corp
Keith Machinery Corp
Mendel Co
Nicos Group
ProCePT
Process Solutions
Samuel Pressure Vessel Group, Tomahawk
Servolift

FLUORESCENT LAMPS, SHATTERPROOF

GMP Systems
Isolation Systems

FREEZERS

Bahnson Environmental Specialties, An EMCOR Co
BOC, A member of The Linde Group
Chem Flowtronics
DJS Enterprises
General Lab & Cleanroom Supply, dba General Lab Supply
Harris Environmental Systems
Powers Scientific
So-Low Environmental Equipment Co
Vindonwestech

GAS SEPARATION MEMBRANES

JLS Intl
Membrana
Parker Hannifin
Praxair
RJM Sales

GASKET MATERIAL

Bergen Industrial Supply Co
DJS Enterprises
EquipNet
G-M-I
GMP Systems
Parker Hannifin Corp
Pawling Engineered Products
Reiss Mfg, Ronsil
Rubber & Kentron
Plastics Divs
Rubber Fab
Seal Master Corp
WL Gore & Assocs, Gore PharmBIO Products
Zed Industries

GASKETS, OTHER

Bergen Industrial Supply Co
Chem Flowtronics
De Dietrich Process Systems

EquipNet
G-M-I
GMP Systems
Parker Hannifin Corp
Pawling Engineered Products
Qosina
Reiss Mfg, Ronsil
Rubber & Kentron
Plastics Divs
Row
Rubber Fab
Ryan Herco Flow Solutions
Seal Master Corp
Top Line Process Equipment Co
WL Gore & Assocs, Gore PharmBIO Products

GASKETS, SANITARY

Bergen Industrial Supply Co
Chem Flowtronics
De Dietrich Process Systems
EquipNet
Evaporator Dryer Technologies
G-M-I
GMP Systems
LJ Star
Parker Hannifin Corp
Pawling Engineered Products
Reiss Mfg, Ronsil
Rubber & Kentron
Plastics Divs
Row
Rubber Fab
Ryan Herco Flow Solutions
Seal Master Corp
Top Line Process Equipment Co
WL Gore & Assocs, Gore PharmBIO Products

GENERATORS, STAND-BY POWER

DJS Enterprises
GMP Systems

GLOVE BOXES

3V TECH USA
Bel-Art Products
Benchmark Products
Blue Thunder Technologies
Central Research Labs
Cole-Parmer
Custom Powder Systems.
The Containment Co
Edgeco
F.P.S. Food and Pharma Systems srl
FabOhio
Flanders Corp, Containment Products
General Lab & Cleanroom Supply, dba General Lab Supply
Integrated Containment Systems
Isolation Systems
Jenessco Industries
Key Intl
Labconco Corp
Nicos Group
Plastic Supply of PA
Renco Corp
SMI
Telstar North America
The Baker Co
Zed Industries

GLOVES

Ansell Protective Products, Occupational Healthcare Div
Bel-Art Products
Blue Thunder Technologies
Central Research Labs
Cole-Parmer
Custom Powder Systems.
The Containment Co
I Holland Ltd
Integrated Containment Systems
Jenessco Industries
Labconco Corp
QRP Gloves
Renco Corp
Shoe Inn
WL Gore & Assocs, Gore PharmBIO Products

GRANULATORS, ROTARY, FLUID-BED, CENTRIFUGAL

ACG North America LLC
DJS Enterprises
Draiswerke
EquipNet
Fluid Air, Spraying Systems Co
Franklin Miller
Freund-Vector Corp
319-377-8263
fax 319-377-5574
sales@freund-vector.com
www.f Freund-vector.com

See ad on page 47

GEA Process Engineering, GEA Pharma Systems
GEMCO
HealthStar
Hosokawa Micron Powder Systems
Jaygo
Kason Corp
Keith Machinery Corp
Kemutec
Mendel Co
ProCePT
Romaco North American
Servolift
SMI
Thermo Fisher Scientific, Materials and Structural Analysis
Urschel

GRANULATORS, VACUUM DRYERS

AC Compacting LLC
AZO
Charles Ross & Son Co
Daiichi Jitsugyo (America), Pharmaceutical Div
DJS Enterprises
EquipNet
GEA Process Engineering, GEA Pharma Systems
GEMCO
HealthStar
Jaygo
Key Intl
Mendel Co
Patterson Kelley
ProCePT
Servolift
SMI

GRINDERS

Alexanderwerk
Arde Barinco, Aerojet
Rocketdyne

BEE Intl
Bel-Art Products
BioSpec Products
Charles Ross & Son Co
DJS Enterprises
Draiswerke
F.P.S. Food and Pharma Systems srl
Franklin Miller
Glen Mills
HealthStar
Hosokawa Micron Powder Systems
IKA Works
Ingersoll-Rand, Compressed Air Solutions
Jaygo
Jet Pulverizer Co
Kimble Chase, Life Sciences & Research
NETZSCH Premier Technologies LLC, Grinding & Dispersing
Perry Videx LLC
PRO Scientific
Servolift
Silverson Machines
SWECO
Urschel
Verder Scientific, North America

HAMMERMILLS

Alexanderwerk
DJS Enterprises
Franklin Miller
Glen Mills
HealthStar
Hosokawa Micron Powder Systems
Keith Machinery Corp
Mendel Co
NETZSCH Premier Technologies LLC, Grinding & Dispersing
Servolift
Urschel
Verder Scientific, North America

HAND TOOLS, AUTOCLAVABLE

ASG, Jergens
Benchmark Products
Champion Trading Corp

HANGERS, PIPELINE

Bergen Industrial Supply Co
GMP Systems
Top Line Process Equipment Co

HEARING PROTECTORS

General Lab & Cleanroom Supply, dba General Lab Supply

HEAT EXCHANGERS

A&B Process Systems Corp, JBT Corporation
Aggreko, North America
Alfa Laval
Allegheny Bradford Corp, Corporate
Anguil Environmental Systems
Apache Stainless Equipment Corp
API Heat Transfer, Airtech, Basco, Schmidt-Bretten Divs
APV, An SPX Brand, SPX Flow Technology
Asahi/America
Atlas Industrial Mfg Co
Avestin

Bergen Industrial Supply Co
 Bionomic Industries
 BOC, A member of The Linde Group
 Chem Flowtronics Chromalox
 De Dietrich Process Systems
 Durex Industries
 Evaporator Dryer Technologies
 Feldmeier Equipment
 GEA Process Engineering, GEA Pharma Systems
 GMP Systems
 JLS Intl
 Jongia USA
 Keith Machinery Corp
 Lee Industries, Process Systems & Equipment/ Fluid Transfer Divs
 MECO
 Mokon
 MultiTherm LLC
 Munters Corp
 Paul Mueller Co
 Perry Videx LLC
 Pick Heaters
 Praxair
 Ruland Engineering & Consulting GmbH
 Samuel Pressure Vessel Group, Tomahawk
 Schutte & Koerting
 Spirax Sarco
 SPX Flow
 The ChemPro Group
 Waukesha Cherry-Burrell, An SPX Flow Brand, SPX Flow

HEAT RECOVERY SYSTEMS

A&B Process Systems Corp, JBT Corporation
 Allegheny Bradford Corp, Corporate
 Anguil Environmental Systems
 Bionomic Industries
 Buffalo Air Handling
 Evaporator Dryer Technologies
 GEA Process Engineering, GEA Pharma Systems
 Girtor Mfg Co, Pharmaceutical Div
 GMP Systems
 MECO
 Mokon
 MultiTherm LLC
 Munters Corp
 Ruland Engineering & Consulting GmbH
 Spirax Sarco
 SPX Flow
 The ChemPro Group

HEAT TRANSFER FLUID

DJS Enterprises
 GMP Systems
 Julabo USA
 Mokon
 MultiTherm LLC
 Paratherm

HEATING EQUIPMENT (OTHER THAN OVENS)

A&B Process Systems Corp, JBT Corporation
 Buffalo Air Handling
 Chemical Transfer Partnership Corp, (CTP Corp)
 Custom Heat LLC
 IKA Works
 JLS Intl
 Julabo USA

Mokon
 MultiTherm LLC
 Spirax Sarco
 Torrey Pines Scientific
 Zed Industries

HEPA FILTER TEST EQUIPMENT

Climet Instruments Co
 Flow Sciences
 Isolation Systems
 Labconco Corp

HOISTS

Bergen Industrial Supply Co
 Custom Powder Systems
 The Containment Co
 Ingersoll-Rand, Compressed Air Solutions
 MO Industries
 Process Solutions
 Servolift
 UniTech Industries

HOMOGENIZERS

AC Compacting LLC
 APV, An SPX Brand, SPX Flow Technology
 Arde Barinco, Aerojet Rocketdyne
 Avestin
 BEE Intl
 BioSpec Products
 Branson
 Ultrasonics Corp
 CapPlus Technologies
 Champion Trading Corp
Charles Ross & Son Co
 Cole-Parmer
 DJS Enterprises
 Draiswerke
 GEA Process Engineering, GEA Pharma Systems
 GEMCO
 General Lab & Cleanroom Supply, dba General Lab Supply
 Glen Mills
 GMP Systems
 HealthStar
 IKA Works
 Jaygo
 Keith Machinery Corp
 Key Intl
 Kimble Chase, Life Sciences & Research
 Kinematica
 Krieger
 Lee Industries, Process Systems & Equipment/ Fluid Transfer Divs
 Marion Process Solutions
 Microfluidics
 NETZSCH Premier Technologies LLC, Grinding & Dispersing
 PRO Scientific
 ProCept
 Process Tek
 Readco Kurimoto LLC
 Ruland Engineering & Consulting GmbH
 Scientific Industries
 Silverson Machines
 SPX Flow
 Urschel

HUMIDITY CHAMBERS

Bahnsen Environmental Specialties, An EMCOR Co
 CARON Products Services
 E Instruments Intl
 Isolation Systems

Keith Machinery Corp
 Labconco Corp
 Powers Scientific
 Rotronic
 Thunder Scientific Corp
 Vindonwestech

HVAC EQUIPMENT

Aggreko, North America
 Buffalo Air Handling
 Condair plc
 Dristeem
 E Instruments Intl
 Flanders Corp, Containment Products
 Isolation Systems
 MultiTherm LLC
 Munters Corp
 Telstar North America
 Westfield Sheet Metal Works

ICE PACKS

General Lab & Cleanroom Supply, dba General Lab Supply
 Mesa Labs, Cold Chain

IN-PROCESS MICROBIOLOGICAL CONTROL DEVICES

EMD Millipore, A Div of Merck KGaA
 Darmstadt Germany
 Pall Life Sciences, Biopharmaceuticals
 Q-Lab Corp

INCUBATORS

Bahnsen Environmental Specialties, An EMCOR Co

CARON Products Services
 E Instruments Intl
 ESCO Technologies
 General Lab & Cleanroom Supply, dba General Lab Supply
 Globe Scientific
 Harris Environmental Systems
 IKA Works
 Powers Scientific
 Torrey Pines Scientific
 Vindonwestech
 Wheaton Industries, Wheaton Science Packaging

INDUSTRIAL COATINGS AND PAINTS

Fibergrate Composite Structures
 Newson Gale

INSPECTION DEVICES

AC Compacting LLC
 Ackley Machine Corp
 AGR Intl
 Analytical Spectral Devices
 AWS Bio-Pharma Technologies
 BellatRx
 Capmatic Ltd
 Champion Trading Corp
 Climet Instruments Co
 Cognex Corp

Rock Solid Custom Engineering—and a Guarantee to Match.

VAC-U-MAX Gel Cap, Capsule, and Coated Tablet Conveyor for Gentle Delivery of Product to Capsule Filling or Packaging Machines

From sanitary components to fully automated batch or continuous systems, we create pharmaceutical processing solutions entirely around your needs and goals.

More than 60 years of custom application experience in the pharmaceutical industry. Over 10,000 different powder and bulk materials handled—including Free-Flowing and Non-Free Flowing Powders. Technical expertise including FAT and SAT validation. And an airtight performance guarantee. It's what makes VAC-U-MAX as unique and trusted as the pharmaceutical process automation solutions we design.

Let us solve your pneumatic conveying challenges. Visit vac-u-max.com/pneumatic or call 800-VAC-U-MAX.



SANITARY/USDA-ACCEPTED • PNEUMATIC CONVEYING COMPONENTS & SYSTEMS • BATCH & CONTINUOUS OPERATION
 MULTI-INGREDIENT HANDLING SYSTEMS • BATCH WEIGHING & SCALING SYSTEMS • UL-CONTROLS & CONTROL PACKAGES
 FDA-APPROVED/CERTIFIED MATERIALS OF CONSTRUCTION • 21 CFR PART 11 COMPLIANCE
 MOBILE VACUUM CONVEYING SYSTEMS • CIP DESIGNS

Cozzoli Machine Co
 Daiichi Jitsugyo
 (America),
 Pharmaceutical Div
 E Instruments Intl
 Efficient Automated
 Machine Corp
 ERIEZ
 Fortress Technology
 FSI Technologies
 HealthStar
 Integrated Packaging
 Systems
 Kaps-All Packaging
 Systems
 Lenox Instrument Co
 LJ Star
 Lock Inspection
 Systems
 LT Industries
 Mendel Co
 Mettler Toledo PCE,
 Product Inspection
 New England Machinery
 Pharmatron
 Prodtic
 PTI Packaging
 Technologies &
 Inspection LLC
 Qualicaps
 Robert Bosch
 Packaging
 Technology,
 Inspection Technology
 Pharma
 Seidenader Equipment
SSE Technologies
 Symetix
 Teledyne DALSA
 Victor Intl Mktg

**INSULATED
 CONTAINERS**
 Bel-Art Products
 Edgeco
 Remcon Plastics
 TRS Containers

INSULATION
 Ryan Herco Flow
 Solutions

**INTEGRITY TEST
 INSTRUMENTS**
Charles River,
Microbial Solutions
 Kaps-All Packaging
 Systems
 Lenox Instrument Co
 LT Industries
 Pall Corp,
 Life Sciences Group
 Pall Life Sciences,
 Biopharmaceuticals
 Parker domnick hunter
 Process Tek
 PTI Packaging
 Technologies &
 Inspection LLC

**IONIZATION
 EQUIPMENT**
 Amstat Industries
 General Lab &
 Cleanroom Supply,
 dba General Lab
 Supply
 Isolation Systems
 McBrady Engineering
 New England Machinery

**IONTOPHORESIS
 EQUIPMENT**
 DJS Enterprises

**KNEADERS, HIGH
 VISCOSITY**
 IKA Works
 Jaygo

**LAMINAR-FLOW
 TEST EQUIPMENT**
 DJS Enterprises
 F.P.S. Food and Pharma
 Systems srl
 General Lab &
 Cleanroom Supply,
 dba General Lab
 Supply
 Gerbig Engineering
 Isolation Systems
 Kewaunee
 Scientific Corp
 Labconco Corp
 LM Air Technology,
 Cleanroom & Lab
 Equipment

**LEAFLET-FOLDING
 EQUIPMENT**
 DJS Enterprises
 G&K-Vijuk Intl
 Sancilio & Co

LIFTERS, MOVABLE
EQUIPMENT
 Benchmark Products
 DJS Enterprises
 EHS Solutions LLC
 EquipNet
 Interthor
 Isolation Systems
 Liftomatic Material
 Handling
 MO Industries
 Process Solutions
 R on I
 Sancilio & Co
 Servolift
 UniTech Industries

**LIFTERS,
 STATIONARY**
 DJS Enterprises
 Driam USA
 EHS Solutions LLC
 EquipNet
 Isolation Systems
 Liftomatic Material
 Handling
 MO Industries
 Process Solutions
 R on I
 Sancilio & Co
 Servolift
 UniTech Industries

**LIGHTING,
 PLASTIC-COATED**
 BOC, A member of
 The Linde Group
 Isolation Systems

**LUBRICANTS FOR
 TABLET PRESSES**
Elizabeth Carbiide
Die Co
 General Lab &
 Cleanroom Supply,
 dba General Lab
 Supply
 General
 Magnaplate Corp
 International
 Products Corp

**LYOPHILIZERS
 (FREEZE DRYERS)**
 Chem Flowtronics
 Clordisys Solutions
 Daiichi Jitsugyo
 (America),
 Pharmaceutical Div
 DJS Enterprises
 ESCO Technologies
 HealthStar
 IMA North America
 Keith Machinery Corp
 Labconco Corp
 Millrock Technology
 Molded Fiber Glass
 Tray Co
 Optima Machinery Corp

For vendor contact information, see Company Directory section.

Praxair
 SP Scientific - HULL/
 VIRTIS/FTS
 Teistar North America

MANIFOLDS
 AdvantaPure
 Alfa Laval
 Allegheny Bradford
 Corp, Corporate
 Apache Stainless
 Equipment Corp
 Aquasyn LLC
 Benchmark Products
 Bergen Industrial
 Supply Co
 Chem Flowtronics
 Festo Corp
 Fluid Air,
 Spraying Systems Co
 GEA Tuchenhagen
 North America
 GMP Systems
 Kimble Chase, Life
 Sciences & Research
 Oyster Bay Pump Works
 Parker domnick hunter
 Phenomenex
 Rubber Fab
 SP Scientific - HULL/
 VIRTIS/FTS
 SPX Flow
 Viega LLC
 Waukesha Cherry-
 Burrell, An SPX Flow
 Brand, SPX Flow
 WL Gore & Assocs,
 Gore PharmBIO
 Products

**MANUFACTURING
 EXECUTION
 SYSTEMS (MES)**
**(SEE ALSO
 INFORMATION
 TECHNOLOGIES
 SECTION)**
 GEA Process
 Engineering, GEA
 Pharma Systems
 PharmaDirections
 Rockwell Automation

**MANUFACTURING
 RESOURCE/
 MATERIAL
 REQUIREMENTS
 PLANNING (MRP)**
**(SEE ALSO
 INFORMATION
 TECHNOLOGIES
 SECTION)**
 Rockwell Automation

MECHANICAL SEALS
 3V TECH USA
 Ashcroft
 Bergen Industrial
 Supply Co
 Chem Flowtronics
 GMP Systems
 Waukesha Cherry-
 Burrell, An SPX Flow
 Brand, SPX Flow

MEDICAL TAPES
 Adhesives Research

**MEDICAL WASTE
 DISPOSAL SUPPLIES**
 General Lab &
 Cleanroom Supply,
 dba General Lab
 Supply

**METERING, PUMPS
 AND PUMP SYSTEMS**
 Airgas
 Bergen Industrial
 Supply Co
 Cole-Parmer

Cozzoli Machine Co
 DJS Enterprises
 Fibergrate Composite
 Structures
 Filamatic, National
 Instrument LLC
 First Sensor
Fluid Metering
 GMP Systems
 IVEK Corp
 JLS Intl
 Kaps-All Packaging
 Systems
 Nash, by Gardner
 Denver
 Neptune Chemical
 Pump Co
 Oyster Bay Pump Works
 Parker domnick hunter
 Parker Hannifin Corp
 Plast-O-Matic Valves
 Spirax Sarco
 SPX Flow
 SSI/LabAlliance
 Thar Process
 Vanton Pump &
 Equipment Corp
 Waukesha Cherry-
 Burrell, An SPX Flow
 Brand, SPX Flow

**MICROBIOLOGICAL
 MANUFACTURING**
 BD Diagnostics
 Bioscience
 ProteinLabs

**MICRO
 EMULSIFYING
 EQUIPMENT**
 BEE Intl
 Branson
 Ultrasonics Corp
**Charles Ross &
 Son Co**
 GEA Process
 Engineering, GEA
 Pharma Systems
 Glen Mills
 Microfluidics
 Process Tek

MICROSPHERES
 AC Compacting LLC
 Bangs Labs
 EMD Millipore, A Div
 of Merck KGaA
 Darmstadt Germany

**MICROSPHERES,
 COATED**
 AC Compacting LLC
 Bangs Labs
 EMD Millipore, A Div
 of Merck KGaA
 Darmstadt Germany

**MICROWAVE
 OVEN, CHEMICAL
 SYNTHESIS**
 CEM Corp
 Marion Process
 Solutions

**MILLING AND
 GRINDING,
 ATTRITION MILLS**
 AC Compacting LLC
 Champion Trading Corp
 DJS Enterprises
 Draiswerke
 EquipNet
 F.P.S. Food and Pharma
 Systems srl
 Franklin Miller
 Glen Mills
 HealthStar
 Hosokawa Micron
 Powder Systems
 Jaygo
 Jet Pulverizer Co
 Keith Machinery Corp

Kemutec
 Mendel Co
 NETZSCH Premier
 Technologies LLC,
 Grinding & Dispersing
 Nicos Group
 Servolift
 The Young Industries
 Urschel

**MILLING AND
 GRINDING, COARSE
 CRUSHERS**
 Alexanderwerk
 Arde Barinco, Aerojet
 Rocketdyne
 Bel-Art Products
 CapPlus Technologies
 Champion Trading Corp
 Daiichi Jitsugyo
 (America),
 Pharmaceutical Div
 DJS Enterprises
 Draiswerke
 EquipNet
 Franklin Miller
 Glen Mills
 HealthStar
 Hosokawa Micron
 Powder Systems
 IKA Works
 Keith Machinery Corp
 Kemutec
 Mendel Co
 NETZSCH Premier
 Technologies LLC,
 Grinding & Dispersing
 Nicos Group
 Servolift
 Torpac
 Urschel
 Verder Scientific,
 North America
 Whirlwind Engineering

**MILLING AND
 GRINDING, COLLOID
 MILLS**
 Arde Barinco, Aerojet
 Rocketdyne
 BEE Intl
 CapPlus Technologies
 Champion Trading Corp
**Charles Ross &
 Son Co**
 DJS Enterprises
 Draiswerke
 EKATO Corp
 EquipNet
 Franklin Miller
 Glen Mills
 HealthStar
 Hosokawa Micron
 Powder Systems
 IKA Works
 Keith Machinery Corp
 Kemutec
 NETZSCH Premier
 Technologies LLC,
 Grinding & Dispersing
 Nicos Group
 Silverson Machines
 Urschel
 Verder Scientific,
 North America
 Waukesha Cherry-
 Burrell, An SPX Flow
 Brand, SPX Flow

**MILLING AND
 GRINDING,
 INTERMEDIATE
 PULVERIZERS**
 AC Compacting LLC
 Alexanderwerk
 Daiichi Jitsugyo
 (America),
 Pharmaceutical Div
 DJS Enterprises
 EquipNet
 F.P.S. Food and Pharma
 Systems srl
 Franklin Miller
 Glen Mills
 HealthStar
 Hosokawa Micron
 Powder Systems
 ILC Dover
 Jet Pulverizer Co
 Keith Machinery Corp
 Kemutec
 Mendel Co
 NETZSCH Premier
 Technologies LLC,
 Grinding & Dispersing
 Nicos Group
 Servolift
 Urschel

**MILLING AND
 GRINDING, FINE
 GRINDING**
 AC Compacting LLC
 Alexanderwerk
 Arde Barinco, Aerojet
 Rocketdyne
 BEE Intl
 Bel-Art Products
 CapPlus Technologies
 Daiichi Jitsugyo
 (America),
 Pharmaceutical Div

DJS Enterprises
 Draiswerke
 EquipNet
 ESCO Technologies
 F.P.S. Food and Pharma
 Systems srl
 Fluid Air,
 Spraying Systems Co
 Franklin Miller
 Glen Mills
 HealthStar
 Hosokawa Micron
 Powder Systems
 IKA Works
 Jaygo
 Jet Pulverizer Co
 Keith Machinery Corp
 Kemutec
 Kinematica
 Mendel Co
 NETZSCH Premier
 Technologies LLC,
 Grinding & Dispersing
 Nicos Group
 Servolift
 SMI
 Torpac
 Urschel
 Verder Scientific,
 North America
 Waukesha Cherry-
 Burrell, An SPX Flow
 Brand, SPX Flow
 Whirlwind Engineering

**MILLING AND
 GRINDING,
 GRANULATORS**
 AC Compacting LLC
 Alexanderwerk
 AZO
 CapPlus Technologies
 Champion Trading Corp
 CMS Technologies
 DJS Enterprises
 EquipNet
 Franklin Miller
Freund-Vactor Corp
 GCA Products
 Glen Mills
 HealthStar
 Hosokawa Micron
 Powder Systems
 Keith Machinery Corp
 Kemutec
 Mendel Co
 NETZSCH Premier
 Technologies LLC,
 Grinding & Dispersing
 Nicos Group
 Sancilio & Co
 Servolift
 Urschel
 Whirlwind Engineering

**MILLING AND
 GRINDING,
 INTERMEDIATE
 PULVERIZERS**
 AC Compacting LLC
 Alexanderwerk
 Daiichi Jitsugyo
 (America),
 Pharmaceutical Div
 DJS Enterprises
 EquipNet
 F.P.S. Food and Pharma
 Systems srl
 Franklin Miller
 Glen Mills
 HealthStar
 Hosokawa Micron
 Powder Systems
 ILC Dover
 Jet Pulverizer Co
 Keith Machinery Corp
 Kemutec
 Mendel Co
 NETZSCH Premier
 Technologies LLC,
 Grinding & Dispersing
 Nicos Group
 Servolift
 Urschel

Verder Scientific,
North America
Whirlwind Engineering

Urschel
Verder Scientific,
North America

IKA Works
Jaygo
JLS Intl
Keith Machinery Corp
Kemutec
Key Intl
Lee Industries, Process
Systems & Equipment/
Fluid Transfer Divs
Lightnin, An SPX Brand,
SPX Flow Technology
Marion Process
Solutions
MECO Seal
Mendel Co
Mixing Systems
MO Industries
Morse Mfg Co
NETZSCH Premier
Technologies LLC,
Grinding & Dispersing

EKATO Corp
EquipNet
Feldmeier Equipment
GEA Process
Engineering, GEA
Pharma Systems
GMP Systems
JLS Intl
Jongia USA
Keith Machinery Corp
Lee Industries, Process
Systems & Equipment/
Fluid Transfer Divs
MECO Seal
Pick Heaters
Pope Scientific
SPX Flow

JLS Intl
Kemutec

Key Intl
Lee Industries, Process
Systems & Equipment/
Fluid Transfer Divs
Lightnin, An SPX Brand,
SPX Flow Technology
Marion Process
Solutions
Mendel Co
NETZSCH Premier
Technologies LLC,
Grinding & Dispersing
Nicos Group
PRO Scientific
ProCePT
Servolift
Silverson Machines
SMI
SPX Flow

**MILLING AND
GRINDING,
OINTMENT MILLS**
Arde Barinco, Aerojet
Rocketdyne
Champion Trading Corp
**Charles Ross &
Son Co**
DJS Enterprises
EKATO Corp
EquipNet
Glen Mills
Hosokawa Micron
Powder Systems
Jaygo
Keith Machinery Corp
Kemutec
NETZSCH Premier
Technologies LLC,
Grinding & Dispersing
Nicos Group
Silverson Machines
Torpac
Urschel

**MIXERS, BLENDER/
HOMOGENIZER**
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Apache Stainless
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 Grinding & Dispersing
 Pall Corp,
 Life Sciences Group
 Pall Life Sciences,
 Biopharmaceuticals
 pixon engineering AG
 Siemens Process
 Industries + Drives
 Tunnell Consulting
Vac-U-Max

PRODUCT RECOVERY SYSTEMS, CAPSULE
 DJS Enterprises
 GEA Process
 Engineering, GE
 Pharma Systems

GEA Tuuchenhagen
North America
Nash, by Gardner
Denver

**PROGRAMMABLE
CONTROLLERS**

ABB, Process
Automation Div
Acromag
Anderson-Negele
AZO
BHS-Filtration
Chromalox
Coperion K-Tron
EquipNet
Festo Corp
GEA Process
Engineering, GEA
Pharma Systems
Honeywell, Industrial
Measurement &
Controls Div
Isolation Systems
Rockwell Automation
Siemens Process
Industries + Drives
SMI
Spiroflow Systems
Status Instruments
Vac-U-Max
Walchem IWAKI
America
Yokogawa Corp
of America

**PROJECT
MANAGEMENT (SEE
ALSO INFORMATION
TECHNOLOGIES
SECTION)**

AWS Bio-Pharma
Technologies
AZO
Daiichi Jitsugyo
(America),
Pharmaceutical Div
El Assocs, Designers &
Builders
Evaporator Dryer
Technologies
GEA Process
Engineering, GEA
Pharma Systems
GEMU Valves
GMP Systems
Siemens Process
Industries + Drives
Spiroflow Systems
SPX Flow

PULVERIZERS

AC Compacting LLC
Alexanderwerk
Arde Barinco, Aerojet
Rocketdyne
BioSpec Products
CapPlus Technologies
DJS Enterprises
F.P.S. Food and Pharma
Systems srl
Glen Mills
HealthStar
Hosokawa Micron
Powder Systems
Jet Pulverizer Co
Keith Machinery Corp
Kemutec
NETZSCH Premier
Technologies LLC,
Grinding & Dispersing
Perry Videx LLC

**PUMPS,
CENTRIFUGAL**

Advanced Synthesis,
Chemical Div
Alfa Laval
APV, An SPX Brand,
SPX Flow Technology
Bergen Industrial
Supply Co

Clean Air Technologies
O/A Eurovac
Cole-Parmer
DJS Enterprises
EquipNet
GMP Systems
Goulds Pumps,
ITT Corp
HealthStar
Keith Machinery Corp
Met - Pro Global Pump
Solutions - Fybroc
Met-Pro Global Pump
Solutions - Sethco
Richter Chemie-Technik
GmbH
Sigma Equipment Corp
SPX Flow
Top Line Process
Equipment Co
Vanton Pump &
Equipment Corp
Vertiflo Pump Co
Waukesha Cherry-
Burrell, An SPX Flow
Brand, SPX Flow

PUMPS, DIAPHRAGM

Bergen Industrial
Supply Co
Bioengineering
Blacoh Fluid Control
Champion Trading Corp
Cozzoli Machine Co
DJS Enterprises
EquipNet
Filamatic, National
Instrument LLC
First Sensor
Fluid Metering
General Lab &
Cleanroom Supply,
dba General Lab
Supply
GMP Systems
HealthStar
Ingersoll-Rand,
Compressed Air
Solutions
Intellitech
Keith Machinery Corp
Labconco Corp
LEYBOLD
Rockwell Automation
Rubber Fab
SPX Flow
SSI/LabAlliance

**PUMPS,
HIGH-PRESSURE**

Alfa Laval
Avestin
Beamex
Clean Air Technologies
O/A Eurovac
De Dietrich Process
Systems
DJS Enterprises
EquipNet
GEA Process
Engineering, GEA
Pharma Systems
GMP Systems
Goulds Pumps,
ITT Corp
Integrated Gas Services
JLS Intl
Keith Machinery Corp
Nash, by Gardner
Denver
Parker Hannifin Corp
Process Tek
Rees Scientific
Sci-Con
Spirax Sarco
SSI/LabAlliance
Thar Process
Top Line Process
Equipment Co
Vac-U-Max
Vanton Pump &
Equipment Corp

Waters Corp, Waters Div
Waukesha Cherry-
Burrell, An SPX Flow
Brand, SPX Flow

**PUMPS,
MAGNETICALLY
COUPLED**

Blacoh Fluid Control
DJS Enterprises
EquipNet
GMP Systems
Goulds Pumps,
ITT Corp
JLS Intl
Met - Pro Global Pump
Solutions - Fybroc
Met-Pro Global Pump
Solutions - Sethco
Nash, by Gardner
Denver
Richter Chemie-Technik
GmbH
Top Line Process
Equipment Co
Vanton Pump &
Equipment Corp

PUMPS, METERING

Blacoh Fluid Control
Champion Trading Corp
Cole-Parmer
Cozzoli Machine Co
DJS Enterprises
EquipNet
Filamatic, National
Instrument LLC
Fluid Metering
GMP Systems
GoatThroat Pumps,
Pumps & Systems
Intellitech
IVEK Corp
JLS Intl
Kaps-All Packaging
Systems
Keith Machinery Corp
Neptune Chemical
Pump Co
Oyster Bay Pump Works
Parker domnick hunter
Parker Hannifin Corp
Plast-O-Matic Valves
Process Tek
Rockwell Automation
SPX Flow
SSI/LabAlliance
Vanton Pump &
Equipment Corp
Walchem IWAKI
America
Waukesha Cherry-
Burrell, An SPX Flow
Brand, SPX Flow

**PUMPS, MOTOR
SPEED CONTROLS**

ADVANCED Motion
Controls
Alfa Laval
Bergen Industrial
Supply Co
DJS Enterprises
EquipNet
GMP Systems
Goulds Pumps,
ITT Corp
JLS Intl
Keith Machinery Corp
Oyster Bay Pump Works
SPX Flow
Top Line Process
Equipment Co
Vanton Pump &
Equipment Corp
Waukesha Cherry-
Burrell, An SPX Flow
Brand, SPX Flow

**PUMPS,
MULTISTAGE
CENTRIFUGAL**

Alfa Laval
Bergen Industrial
Supply Co
Clean Air Technologies
O/A Eurovac
EquipNet
GMP Systems
Goulds Pumps,
EquipNet
ITT Corp
SPX Flow
Top Line Process
Equipment Co
Vanton Pump &
Equipment Corp
Waukesha Cherry-
Burrell, An SPX Flow
Brand, SPX Flow

**PUMPS,
PERISTALTIC**

Bausch Advanced
Technologies
Blacoh Fluid Control
Capmatic Ltd
Champion Trading Corp
Cole-Parmer
DJS Enterprises
EquipNet
ERE
Filamatic, National
Instrument LLC
Fluid Metering
General Lab &
Cleanroom Supply,
dba General Lab
Supply
Glen Mills
GMP Systems
groninger USA LLC,
Marketing
Integrated Packaging
Systems

Keith Machinery Corp
Modular Packaging
Systems
Optima Machinery Corp
Oyster Bay Pump Works
Parker domnick hunter
QualiTru Sampling
Systems
Vanton Pump &
Equipment Corp
Victor Intl Mktg
Wheaton Industries,
Wheaton Science
Packaging

PUMPS, PORTABLE

Bausch Advanced
Technologies
Beamex
Bel-Art Products
Clean Air Technologies
O/A Eurovac
EMD Millipore, A Div
of Merck KGaA
Darmstadt Germany
EquipNet
ERE
Fluid Metering
General Lab &
Cleanroom Supply,
dba General Lab
Supply
GMP Systems
GoatThroat Pumps,
Pumps & Systems
Goulds Pumps,
ITT Corp
HealthStar
Intellitech
JLS Intl
Keith Machinery Corp
Met-Pro Global Pump
Solutions - Sethco
Oyster Bay Pump Works
Piab

QualiTru Sampling
Systems
Sani-Matic
SPX Flow
Top Line Process
Equipment Co
Vanton Pump &
Equipment Corp
Waukesha Cherry-
Burrell, An SPX Flow
Brand, SPX Flow

**PUMPS,
PROPORTIONING**

EquipNet
Filamatic, National
Instrument LLC
Fluid Metering
GMP Systems
IVEK Corp
Keith Machinery Corp
Neptune Chemical
Pump Co
Oyster Bay Pump Works
Rockwell Automation
SPX Flow

**PUMPS,
RECIPROCATING**

Blacoh Fluid Control
DJS Enterprises
EquipNet
Filamatic, National
Instrument LLC
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GMP Systems
IVEK Corp
Keith Machinery Corp
Oyster Bay Pump Works
SPX Flow
SSI/LabAlliance
Thar Process

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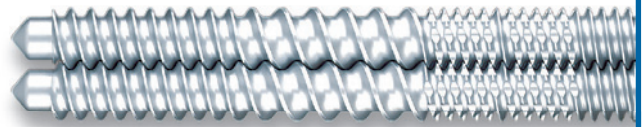
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Sigma Equipment Corp
Telstar North America
Waukesha Cherry-Burrell, An SPX Flow Brand, SPX Flow

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DJS Enterprises EquipNet
Fluid Metering
GEA Process Engineering, GEA Pharma Systems
GMP Systems
IVEK Corp
Oyster Bay Pump Works
Process Tek
SPX Flow
Top Line Process Equipment Co
Vac-U-Max
Vanton Pump & Equipment Corp
Waukesha Cherry-Burrell, An SPX Flow Brand, SPX Flow

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Clean Air Technologies O/A Eurovac
DJS Enterprises EquipNet
GMP Systems
GoatThroat Pumps, Pumps & Systems
Goulds Pumps, ITT Corp
Keith Machinery Corp
Met - Pro Global Pump Solutions - Fybroc
Met-Pro Global Pump Solutions - Sethco
Richter Chemie-Technik GmbH
SPX Flow
Top Line Process Equipment Co
Vanton Pump & Equipment Corp
Vertiflo Pump Co
Waukesha Cherry-Burrell, An SPX Flow Brand, SPX Flow

PUMPS, STEAM JET EJECTOR

Advanced Synthesis, Chemical Div
EquipNet
GMP Systems
JLS Intl
Nash, by Gardner Denver
Schutte & Koerting
Wintek Corp

PUMPS, VACUUM

Advanced Synthesis, Chemical Div
Alfa Laval

AZO
Beamex
Blower Engineering
Champion Trading Corp
Clean Air Technologies O/A Eurovac
Cole-Parmer
De Dietrich Process Systems
DJS Enterprises
Elmo Rietschle Products, Industrial Products Group
EMD Millipore, A Div of Merck KGaA Darmstadt Germany
EquipNet
EXAIR Corp
General Lab & Cleanroom Supply, dba General Lab Supply
GMP Systems
HealthStar
IKA Works
Ingersoll-Rand, Compressed Air Solutions
Integrated Gas Services
Intellitech
JLS Intl
Keith Machinery Corp
Kimble Chase, Life Sciences & Research
Labconco Corp
LEYBOLD
MEECO
Myers Vacuum Repair Services
Nash, by Gardner Denver
Parker Hannifin Corp
Pfeiffer Vacuum
Piab
Plasma Etch
Schutte & Koerting
Telstar North America
Tuthill Vacuum Blower Systems
Vac-U-Max
Wintek Corp

PUMPS, VERTICAL TURBINE

Clean Air Technologies O/A Eurovac
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GMP Systems
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I Holland Ltd
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Natoli Engineering Co

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DJS Enterprises
FSI Technologies
I Holland Ltd
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Elizabeth Carbide Die Co
Fette Compacting America
I Holland Ltd

For vendor contact information, see Company Directory section.

Natoli Engineering Co

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fax 636-926-8910
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www.natoli.com

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GCA Products
I Holland Ltd
Natoli Engineering Co

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Elizabeth Carbide Die Co
Fette Compacting America
I Holland Ltd
Natoli Engineering Co

PUNCH OR DIE TROUBLESHOOTING

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Beamalloy Technologies LLC
DJS Enterprises
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www.natoli.com

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ABB Measurement & Analytics
AC Compacting LLC
Analytical Spectral Devices
Anton PAAR USA
ASG, Jergens
ATAGO USA
ATS RheoSystems, Cannon Instrument Co
Beamex
Caliper Life Sciences
Celsis, Analytical Services Div
Charles River, Microbial Solutions
Cygnus Technologies
Daichi Jitsugyo (America), Pharmaceutical Div
E Instruments Intl
Fortress Technology
GE Sensing & Inspection Technologies
I Holland Ltd
Konica Minolta Sensing Americas
LT Industries
Mettler Toledo PCE, Product Inspection
Pharmatron
Process Tek
Proditec
Rapid Micro Biosystems
Rees Scientific

Rockwell Automation
Sensitech
Siemens Process Industries + Drives
SSE Technologies
Teledyne DALSA
Vaisala

REACTORS

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A&B Process Systems Corp, JBT Corporation
ABEC
ADI Systems
Advanced Synthesis, Chemical Div
Allegheny Bradford Corp, Corporate American Alloy Fabricators
Apache Stainless Equipment Corp
AWS Bio-Pharma Technologies
CapPlus Technologies
Charles Ross & Son Co
Chem Flowtronics
Chemical Transfer Partnership Corp, (CTP Corp)
De Dietrich Process Systems
Draiswerke
Feldmeier Equipment
GMP Systems
HealthStar

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fax 910-452-7693
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www.ika.com

JLS Intl

Jongia USA
Keith Machinery Corp
Lee Industries, Process Systems & Equipment/
Fluid Transfer Divs
Lightnin, An SPX Brand, SPX Flow Technology
Milestone
Perry Videx LLC
Pope Scientific
Samuel Pressure Vessel Group, Tomahawk
Thar Process

REALTORS, ALLOY

Samuel Pressure Vessel Group, Tomahawk

RECORDERS

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Carltext
Cole-Parmer
EquipNet
GE Sensing & Inspection Technologies
Honeywell, Industrial Measurement & Controls Div
Isolation Systems
Mesa Labs, Cold Chain
Pyrometer Instrument Co, PMA Process Control Div
Rockwell Automation
Sci-Con
Sensitech
Vaisala
Yokogawa Corp of America

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An EMCOR Co
CARON Products Services

Powers Scientific
Scientific Industries
So-Low Environmental Equipment Co
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Adhesives Research
Reiss Mfg, Ronsil Rubber & Kentron Plastics Divs

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Caliper Life Sciences
groninger USA LLC, Marketing
Hamilton Co, Process Analytics
Rockwell Automation
Spiroflow Systems

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Hosokawa Micron Powder Systems
Mendel Co
Nicos Group
SMI

RUBBER COMPONENTS AND PARTS

AdvantaPure
Consolidated Polymer Technologies
G-M-I
GMP Systems
Liftomatic Material Handling
Pawling Engineered Products
Praxair
Reiss Mfg, Ronsil Rubber & Kentron Plastics Divs
Rubber Fab
Seal Master Corp

RUPTURE DISK HOLDERS

Bergen Industrial Supply Co
Continental Disc Corp
GMP Systems
Oseco
Rubber Fab

RUPTURE DISKS (SEE ALSO EXPLOSION PROTECTION EQUIPMENT)

Clean Air Technologies O/A Eurovac
Continental Disc Corp
GMP Systems
Oseco
Rubber Fab

RUPTURE PANELS (SEE ALSO EXPLOSION PROTECTION EQUIPMENT)

Clean Air Technologies O/A Eurovac
Continental Disc Corp
Oseco

SAMPLING DEVICES, BULK POWDER

Bel-Art Products
De Dietrich Process Systems
F.P.S. Food and Pharma Systems srl
Glen Mills
GMP Systems
Isolation Systems
Jaygo
Piab
Process Tek
Quantachrome Instruments
Sentry Equipment Corp
Verder Scientific, North America
WL Gore & Assocs, Gore PharmBIO Products

SANITARY CONTAINERS, STAINLESS STEEL

Bergen Industrial Supply Co
Chem Flowtronics
CMW Stainless
Custom Powder Systems.
The Containment Co
GMP Systems
JLS Intl
Lee Industries, Process Systems & Equipment/
Fluid Transfer Divs
Paul Mueller Co
Pope Scientific
Process Solutions
Samuel Pressure Vessel Group, Tomahawk
Sani-Matic
Snyder Industries, Dry Handling & IBC Div
Vac-U-Max
Westfield Sheet Metal Works

SANITARY SAMPLING PARTS

3V TECH USA
Advanced Scientific
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GMP Systems
Isolation Systems
Jaygo
JLS Intl
Process Tek
QualiTru Sampling Systems
Rubber Fab
Sentry Equipment Corp
Top Line Process Equipment Co
WL Gore & Assocs, Gore PharmBIO Products

SCALES

APD Systems
Atlantic Scale Co
AZO
Batching Systems
Cole-Parmer
DJS Enterprises
Edgeco
Fairbanks Scales
GMP Systems
Kistler Morse

Liftomatic Material Handling
Rice Lake Weighing Systems
Rockwell Automation
Sartorius Stedim North America
Schenck Process
Scientech
Vishay BLH, Vishay Transducers
Wipotec North America

SCALES, CALIBRATION
Alfa Laval
Atlantic Scale Co
Cole-Parmer
Fairbanks Scales
GMP Systems
Rice Lake Weighing Systems
Sartorius Stedim North America
Scientech

SCREENING
Allgaier/McLanahan Corp
AZO
Celsis, Analytical Services Div
DJS Enterprises
ERIEZ
Fibergrate Composite Structures
Glen Mills
Great Western Mfg Co
JLS Intl
Kason Corp
Keith Machinery Corp
Kemutec
Minox/Elcán
Perry Videx LLC
Rubber Fab
Russell Finex
Servolift
SWECO
Telstar North America

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Bionomic Industries
BOC, A member of The Linde Group
Clean Air Technologies O/A Eurovac
Evaporator Dryer Technologies
Keith Machinery Corp
Plasma Etch
Schutte & Koerting

SEALS
Chem Flowtronics
MECO Seal

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CustomVault
DJS Enterprises
Omega Design Corp
SSE Technologies
TruTag Technologies

SEPARATIONS, CHIRAL, PRODUCTION/PREPARATIVE SCALE
Alfa Laval
DJS Enterprises
Waters Corp, Waters Div

SEPARATORS, LIQUID-LIQUID
Alfa Laval
Chem Flowtronics
Clean Air Technologies O/A Eurovac
De Dietrich Process Systems

DJS Enterprises
HealthStar
Keith Machinery Corp
Kyte Centrifuge Sales & Consulting
Membrana
Minox/Elcán
Pall Corp,
Life Sciences Group
Pall Life Sciences,
Biopharmaceuticals
Parker Hannifin Corp
Robatel
Samuel Pressure Vessel Group, Tomahawk
The ChemPro Group
Waters Corp, Waters Div
Western States
Machine Co
Wintek Corp

SEPARATORS, SOLIDS-LIQUID
Alfa Laval
BHS-Filtration
Chem Flowtronics
Clean Air Technologies O/A Eurovac
De Dietrich Process Systems
DJS Enterprises
HealthStar
Kason Corp
Keith Machinery Corp
Kyte Centrifuge Sales & Consulting
Minox/Elcán
Pall Corp,
Life Sciences Group
Pall Life Sciences,
Biopharmaceuticals
Robatel
Russell Finex
Samuel Pressure Vessel Group, Tomahawk
Sefar
SWECO
Thar Process
Western States
Machine Co

SFC SYSTEMS
Novasep
Thar Process
Waters Corp, Waters Div

SFE SYSTEMS
Thar Process
Waters Corp, Waters Div

SHAFT SEALS
Chem Flowtronics
GMP Systems
Parker Hannifin Corp
Seal Master Corp

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Glen Mills
Keith Machinery Corp
S&G Enterprises
Urschel

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Kemutec
SWECO
Verder Scientific,
North America

SIEVES
AZO
Bel-Art Products
Benchmark Products
Cole-Parmer
DJS Enterprises

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Glen Mills
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HealthStar
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Powder Systems
Kason Corp
Keith Machinery Corp
Kemutec
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Russell Finex
Sancilio & Co
Servolift
SWECO
Verder Scientific,
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Whirlwind Engineering

SIFTERS
Allgaier/McLanahan Corp
AZO
DJS Enterprises
Glen Mills
Great Western Mfg Co
HealthStar
Kason Corp
Keith Machinery Corp
Kemutec
Minox/Elcán
MO Industries
Rubber Fab
Russell Finex
Sancilio & Co
Servolift
SWECO
Whirlwind Engineering

SIGHT GAUGES
Bergen Industrial Supply Co
Chem Flowtronics
LJ Star
Plast-O-Matic Valves
RJM Sales
Rubber Fab
Top Line Process Equipment Co

SIGHT GLASSES
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Chem Flowtronics
Coperion K-Tron
De Dietrich Process Systems
Evaporator Dryer Technologies
GEA Tuuchenhagen
North America
LJ Star
Mendel Co
MO Industries
Plast-O-Matic Valves
Richter Chemie-Technik GmbH
RJM Sales
Rubber Fab
Ryan Herco Flow Solutions
Top Line Process Equipment Co

SILOS, BULK STORAGE
A&B Process Systems Corp, JBT Corporation
Apache Stainless Equipment Corp
AZO
Coperion K-Tron
DCI
DCI-Biolafitte
Diamondback Technology
EquipNet
Feldmeier Equipment

Kistler Morse
MO Industries
Snyder Industries, Dry Handling & IBC Div

SINKS, STAINLESS
Benchmark Products
Edgco
Getinge USA,
Life Science
Isolation Systems
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SIZE REDUCTION MACHINES
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AZO
BEE Intl
CapPlus Technologies
DJS Enterprises
Draiswerke
F.P.S. Food and Pharma Systems srl
Fluid Air,
Spraying Systems Co
Franklin Miller
Glen Mills
Hosokawa Micron
Powder Systems
Jaygo
Jet Pulverizer Co
Keith Machinery Corp
Kemutec
Lee Industries, Process Systems & Equipment/
Fluid Transfer Divs
Microfluidics
NETZSCH Premier Technologies LLC,
Grinding & Dispersing

Servolift
Urschel
Verder Scientific,
North America
Wyssmont Co

SOFT-GEL MANUFACTURING SUPPLIES
CapPlus Technologies
CMS Technologies
DJS Enterprises
Molded Fiber Glass
Tray Co

SOLVENT RECOVERY SYSTEMS, ACTIVATED-CARBON ADSORPTION
3V TECH USA
EquipNet
Anguil Environmental Systems
CECO Environmental
EquipNet
Novasep
Praxair
Samuel Pressure Vessel Group, Tomahawk
Wintek Corp

SOLVENT RECOVERY SYSTEMS, DISTILLATION
Advanced Synthesis,
Chemical Div
Chemical Transfer Partnership Corp, (CTP Corp)
De Dietrich Process Systems
EquipNet
GEMCO
JLS Intl

Kimble Chase, Life Sciences & Research
Labconco Corp
Nash, by Gardner Denver
NexGen Enviro Systems
Novasep
Perry Videx LLC
Pope Scientific
Praxair
Samuel Pressure Vessel Group, Tomahawk
The ChemPro Group
Wintek Corp

SOLVENT RECOVERY SYSTEMS, MEMBRANE
3V TECH USA
EquipNet
GEA Process Engineering, GEA
Pharma Systems
JLS Intl
Kimble Chase, Life Sciences & Research
Novasep
Samuel Pressure Vessel Group, Tomahawk
The ChemPro Group
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SOP DEVELOPMENT (SEE ALSO INFORMATION TECHNOLOGIES SECTION)
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Pharma Systems
Mendel Co

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DJS Enterprises

En'Urga

Evaporator Dryer

Technologies

Fluid Air,

Spraying Systems Co

GCA Products

ProCePT

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Bergen Industrial

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DJS Enterprises

En'Urga

EquipNet

ESC, Electrol

Specialties Co

Evaporator Dryer

Technologies

Fluid Air,

Spraying Systems Co

GCA Products

GEA Process

Engineering, GEA

Pharma Systems

GEA Tuchoenhagen

North America

HealthStar

Isolation Systems

IVEK Corp

Rubber Fab

Sani-Matic

Strahman Valves

STATISTICAL ANALYSIS (SEE ALSO INFORMATION TECHNOLOGIES SECTION)

Minitab

STERILANTS, LIQUID

Clordisys Solutions

Decon Labs

STERILE AIR FILTERS

Buffalo Filter

Domnick microBAN

Isolation Systems

Pall Corp,

Life Sciences Group

Pall Life Sciences,

Biopharmaceuticals

Praxair

STERILE STORAGE UNITS

Apache Stainless

Equipment Corp

Hurst Corp

Isolation Systems
Process Tek
Ruland Engineering &
Consulting GmbH

STERILITY ASSURANCE PACKAGING AND SUPPLIES

General Econopak

Process Tek

Rapid Micro Biosystems

Telstar North America

STERILITY INDICATORS

Benchmark Products

BIOQUELL,

Life Sciences

Getinge USA,

Life Science

Mesa Labs, Biological

Indicators

Process Tek

STERILIZATION INDICATOR LABELS

ITW Texwipe

Mesa Labs, Biological

Indicators

Process Tek

STERILIZER CONTROLS, AUTOCLAVE

Belimed, Scientific Div

DJS Enterprises

ETC, Sterilization

Systems

Getinge USA,

Life Science

HealthStar

JLS Intl

Nicos Group

Process Tek

SBM Schoeller-

Bleckmann

Medizintechnik,

A Bosch Packaging

Technology Company

TMI USA

STERILIZERS, AUTOCLAVE

AWS Bio-Pharma

Technologies

Belimed, Scientific Div

Bosch Packaging

Technology, Pharma

Caritex

Cole-Parmer

DJS Enterprises

EquipNet

ESCO Technologies

ETC, Sterilization

Systems

General Lab &

Cleanroom Supply,

dba General Lab

Supply

Getinge USA,

Life Science

HealthStar

Keith Machinery Corp

Kinematica

McGill AirPressure LLC

Molded Fiber Glass

Tray Co

Nicos Group

Process Tek

SBM Schoeller-

Bleckmann

Medizintechnik,

A Bosch Packaging

Technology Company

Telstar North America

Victor Intl Mktg

STERILIZERS, DRY HEAT, ELECTRIC

Bosch Packaging

Technology, Pharma

For vendor contact information, see Company Directory section.

Central Research Labs

Despatch - ITW EAE

EquipNet

Nicos Group

Optima Machinery Corp

Pink GmbH

Thermosysteme

Telstar North America

TPS

Victor Intl Mktg

STERILIZERS, DRY HEAT, GAS

Bosch Packaging

Technology, Pharma

Despatch - ITW EAE

EquipNet

ETC, Sterilization

Systems

Nicos Group

Telstar North America

STERILIZERS, GAS (CHLORINE OXIDE)

Clordisys Solutions

EquipNet

McBrady Engineering

STERILIZERS, GAS (ETO)

Clordisys Solutions

Despatch - ITW EAE

EquipNet

ETC, Sterilization

Systems

Getinge USA,

Life Science

McBrady Engineering

Molded Fiber Glass

Tray Co

Nicos Group

Process Tek

Sensor Electronics Corp

Telstar North America

STERILIZERS, IONIZING RADIATION

EquipNet

Molded Fiber Glass

Tray Co

Optima Machinery Corp

Plasma Etch

Process Tek

STERILIZERS, MEMBRANE FILTRATION

3M Purification

EquipNet

Pall Corp,

Life Sciences Group

Pall Life Sciences,

Biopharmaceuticals

Process Tek

STERILIZERS, OZONE GENERATION

EquipNet

Process Tek

Xylem Services GmbH

STERILIZERS, SUBMICRON

3M Purification

EquipNet

Pall Corp,

Life Sciences Group

Pall Life Sciences,

Biopharmaceuticals

Plasma Etch

Process Tek

STERILIZERS, TWO-STAGE FILTRATION

EquipNet

Pall Corp,

Life Sciences Group

Pall Life Sciences,

Biopharmaceuticals

Process Tek

STERILIZERS, UV RADIATION

Clordisys Solutions

EquipNet

Molded Fiber Glass

Tray Co

Plasma Etch

Process Tek

Xylem Services GmbH

STERILIZING TUNNELS

AWS Bio-Pharma

Technologies

Bosch Packaging

Technology, Pharma

Clordisys Solutions

Cozzoli Machine Co

ESCO Technologies

F.P.S. Food and Pharma

Systems srl

groninger USA LLC,

Marketing

HealthStar

Optima Machinery Corp

Process Tek

Romaco North

American

STILLS

3V TECH USA

AWS Bio-Pharma

Technologies

Bosch Packaging

Technology, Pharma

Chemical Transfer

Partnership Corp,

(CTP Corp)

General Lab &

Cleanroom Supply,

dba General Lab

Supply

Getinge USA,

Life Science

GMP Systems

Keith Machinery Corp

Kimble Chase, Life

Sciences & Research

NexGen Enviro Systems

Paul Mueller Co

Perry Videx LLC

Stilmas USA

STIRRERS (AGITATORS)

3V TECH USA

Apache Stainless

Equipment Corp

Arde Barinco, Aerojet

Rocketdyne

Bioengineering

BioSpec Products

Charles Ross &

Son Co

Chem Flowtronics

Cole-Parmer

DCI

De Dietrich Process

Systems

DJS Enterprises

General Lab &

Cleanroom Supply,

dba General Lab

Supply

Glen Mills

Globe Scientific

IKA Works

Jaygo

JLS Intl

Keith Machinery Corp

Lee Industries, Process

Systems & Equipment/

Fluid Transfer Divs

Magna-Safe Intl

Mixing Systems

PRO Scientific

Silverson Machines

STOPLOCKS

General Lab &

Cleanroom Supply,

dba General Lab

Supply

Kimble Chase, Life

Sciences & Research

STOPPER HANDLING EQUIPMENT

BellatRx

Capmatic Ltd

Fette Compacting

America
GEA Process
Engineering, GEA
Pharma Systems
HealthStar
Key Intl
Kraemer US LLC
MagneMotion
MCC-Measurement
Control Corp
Mendel Co
Michael Benalt
Molded Fiber Glass
Tray Co
NJM Packaging,
Powered by Pro Mach
Plab
Process Solutions
Remcon Plastics
Servolift
Symetix

TABLET HOPPERS

Champion Trading Corp
Custom Powder
Systems.
The Containment Co
Diamondback
Technology
DJS Enterprises
EquipNet
GCA Products
Integrated Containment
Systems
Integrated Packaging
Systems
Keith Machinery Corp
MCC-Measurement
Control Corp
Mendel Co
Nicos Group
NJM Packaging,
Powered by Pro Mach
Process Solutions
Remcon Plastics
Sancilio & Co
Snyder Industries, Dry
Handling & IBC Div
Vac-U-Max

TABLET PRINTING EQUIPMENT

AC Compacting LLC
Ackley Machine Corp
CapPlus Technologies
Control Micro Systems
Daiichi Jitsugyo
(America),
Pharmaceutical Div
DJS Enterprises
EquipNet

Freund-Vector Corp

319-377-8263
fax 319-377-5574
sales@freund-vector.com
www.freund-vector.com

See ad on page 47

HealthStar
Keith Machinery Corp
Key Intl
Matthews Intl Corp,
Matthews Marking
Systems
Michael Benalt
Qualicaps

TABLET SORTERS

AC Compacting LLC
ACG North America LLC
Ackley Machine Corp
Capmatic Ltd
CapPlus Technologies
Champion Trading Corp
Daiichi Jitsugyo
(America),
Pharmaceutical Div
DJS Enterprises
Driam USA
Efficient Automated
Machine Corp

EquipNet
ERIEZ
HealthStar
Keith Machinery Corp
Key Intl
Proditex
Qualicaps
Sancilio & Co
Seidenader Equipment
Symetix
Vac-U-Max

TABLET TESTERS

ABB Measurement &
Analytics
AC Compacting LLC
Ametek Brookfield,
Instrumentation &
Specialty Controls
Division Street
Atlantic Scale Co
Bosch Packaging
Technology, Pharma
Bruker AXS
CapPlus Technologies
Distek
DJS Enterprises
**Elizabeth Carbide
Die Co**
EquipNet
**Fette Compacting
America**
HealthStar
I Holland Ltd
Keith Machinery Corp
Key Intl
Natoli Engineering Co
Newage Testing
Instruments, A
Subsidiary of AMETEK
Pharmatron

TABLET TOOLING

ACG North America LLC
Beamalloy
Technologies LLC
Bosch Packaging
Technology, Pharma
DJS Enterprises
EquipNet
**Fette Compacting
America**
I Holland Ltd
.....
Natoli Engineering Co
636-926-8900
fax 636-926-8910
info@natoli.com
www.natoli.com
See ad on page 35
.....
Sancilio & Co

TANK COVERS

Alfa Laval
DJS Enterprises
FabOhio
GMP Systems
Keith Machinery Corp
Lee Industries, Process
Systems & Equipment/
Fluid Transfer Divs
Plastic Supply of PA
Remcon Plastics

TANK LINERS

DJS Enterprises
GMP Systems
ILC Dover
Seal Master Corp

TANK SEALS

Chem Flowtronics
GMP Systems
Row
Rubber Fab
Seal Master Corp

TANKS, COATED

3V TECH USA
Apache Stainless
Equipment Corp

AZO
Black Forest Container
Systems
**Charles Ross &
Son Co**
Coperion K-Tron
EquipNet
GMP Systems
HealthStar
Lee Industries, Process
Systems & Equipment/
Fluid Transfer Divs
Pope Scientific

**TANKS,
FLUOROPOLYMER-
LINED**

Apache Stainless
Equipment Corp
**Charles Ross &
Son Co**
EquipNet
GMP Systems
Lee Industries, Process
Systems & Equipment/
Fluid Transfer Divs
Ryan Herco Flow
Solutions

**TANKS,
GLASS-LINED**

3V TECH USA
Advanced Synthesis,
Chemical Div
Chem Flowtronics
De Dietrich Process
Systems
EquipNet
GMP Systems
HealthStar
Ryan Herco Flow
Solutions

TANKS, JACKETED

A&B Process Systems
Corp, JBT Corporation
ABEC
Allegheny Bradford
Corp, Corporate
American Alloy
Fabricators
Apache Stainless
Equipment Corp
BHS-Filtration
Black Forest Container
Systems
Champion Trading Corp
Chem Flowtronics
DCI
DCI-Biolafitte
De Dietrich Process
Systems
DJS Enterprises
EquipNet
Feldmeier Equipment
GMP Systems
HealthStar
Indco
Jaygo
JLS Intl
Keith Machinery Corp
Keystone Process
Equipment
Lee Industries, Process
Systems & Equipment/
Fluid Transfer Divs
Paul Mueller Co
Pope Scientific
Ryan Herco Flow
Solutions
Samuel Pressure Vessel
Group, Tomahawk
**Sartorius Stedim
North America**

TANKS, MIXING

3V TECH USA
A&B Process Systems
Corp, JBT Corporation
Alfa Laval
Allegheny Bradford
Corp, Corporate

American Alloy
Fabricators
Apache Stainless
Equipment Corp
Arde Barinco, Aerojet
Rocketdyne
Bel-Art Products
Black Forest Container
Systems
CapPlus Technologies
Champion Trading Corp
**Charles Ross &
Son Co**
Chem Flowtronics
DCI
DCI-Biolafitte
DJS Enterprises
EquipNet
Feldmeier Equipment
GEA Process
Engineering, GEA
Pharma Systems
GMP Systems
HealthStar
Indco
Jaygo
JLS Intl
Keith Machinery Corp
Keystone Process
Equipment
Lee Industries, Process
Systems & Equipment/
Fluid Transfer Divs
Magna-Safe Intl
MECO Seal
Paul Mueller Co
Perry Videx LLC
Pope Scientific
Process Solutions
Remcon Plastics
Samuel Pressure Vessel
Group, Tomahawk
**Sartorius Stedim
North America**
Snyder Industries, Dry
Handling & IBC Div

TANKS, PLAIN

A&B Process Systems
Corp, JBT Corporation
Allegheny Bradford
Corp, Corporate
Apache Stainless
Equipment Corp
Bel-Art Products
**Charles Ross &
Son Co**
Chem Flowtronics
DCI
DCI-Biolafitte
DJS Enterprises
EquipNet
Feldmeier Equipment
GEA Process
Engineering, GEA
Pharma Systems
GMP Systems
HealthStar
Indco
Jaygo
JLS Intl
Keith Machinery Corp
Keystone Process
Equipment
Lee Industries, Process
Systems & Equipment/
Fluid Transfer Divs
Paul Mueller Co
Perry Videx LLC
Process Solutions
Samuel Pressure Vessel
Group, Tomahawk

**TANKS, PRESSURE,
PORTABLE**

A&B Process Systems
Corp, JBT Corporation
Allegheny Bradford
Corp, Corporate
American Alloy
Fabricators
Apache Stainless
Equipment Corp

Bergen Industrial
Supply Co
BHS-Filtration
Black Forest Container
Systems
**Charles Ross &
Son Co**
Chem Flowtronics
DCI
DCI-Biolafitte
De Dietrich Process
Systems
DJS Enterprises
EquipNet
Feldmeier Equipment
GMP Systems
HealthStar
Indco
Isolation Systems
JLS Intl
Keith Machinery Corp
Keystone Process
Equipment
Lee Industries, Process
Systems & Equipment/
Fluid Transfer Divs
Paul Mueller Co
Perry Videx LLC
Pope Scientific
Samuel Pressure Vessel
Group, Tomahawk
Servolift
Snyder Industries, Dry
Handling & IBC Div
Westfield Sheet
Metal Works

**TANKS, STAINLESS
STEEL**

A&B Process Systems
Corp, JBT Corporation
ABEC
Advanced Synthesis,
Chemical Div
Allegheny Bradford
Corp, Corporate
American Alloy
Fabricators
Apache Stainless
Equipment Corp
Aqasyn LLC
AWS Bio-Pharma
Technologies
AZO
Bergen Industrial
Supply Co
BHS-Filtration
Black Forest Container
Systems
Champion Trading Corp
**Charles Ross &
Son Co**
Chem Flowtronics
Custom Powder
Systems.
The Containment Co
DCI
DCI-Biolafitte
De Dietrich Process
Systems
DJS Enterprises
Driam USA
EquipNet
Evaporator Dryer
Technologies
Feldmeier Equipment
GEA Process
Engineering, GEA
Pharma Systems
GMP Systems
HealthStar
IKA Works
Indco
Isolation Systems
Jaygo
JLS Intl
Keith Machinery Corp
Keystone Process
Equipment
Lee Industries, Process
Systems & Equipment/
Fluid Transfer Divs
Paul Mueller Co
Perry Videx LLC

Pink GmbH
Thermosysteme
Pope Scientific
Process Solutions
Samuel Pressure Vessel
Group, Tomahawk
Sani-Matic
Snyder Industries, Dry
Handling & IBC Div
Westfield Sheet
Metal Works

TANKS, TIN-COATED

Chem Flowtronics
EquipNet
GMP Systems
JLS Intl
Samuel Pressure Vessel
Group, Tomahawk

**TEMPERATURE
CALIBRATION
SYSTEMS**

AMETEK, Sensors,
Test & Calibration
Beamex
Custom Heat LLC
GE Sensing &
Inspection
Technologies
GMP Systems
Julabo USA
Process Tek
Siemens Building
Technologies
WIKA Instrument Corp

**TEMPERATURE
SENSOR FITTINGS**

Acromag
Bergen Industrial
Supply Co
Chromalox
Custom Heat LLC
Durex Industries
GE Sensing &
Inspection
Technologies
GEA Tuuchenhagen
North America
GMP Systems
IFM Efector
Isolation Systems
Parker domnick hunter
Process Tek
Pyromation
Siemens Building
Technologies

**TEMPERATURE
TRANSMITTERS**

ABB, Process
Automation Div
Acromag
Anderson-Negele
Aqasyn LLC
Ashcroft
Custom Heat LLC
Durex Industries
GMP Systems
Hampshire
Controls Corp
IFM Efector
Isolation Systems
Krohne
Parker domnick hunter
Pyromation
Pyrometer Instrument
Co, PMA Process
Control Div
RJM Sales
Siemens Building
Technologies
Spirax Sarco
Status Instruments
Testo
TMI USA
Vaisala
WIKA Instrument Corp
Yokogawa Corp
of America

For vendor contact information, see Company Directory section.

TESTING DEVICES, STATIC ELECTRICITY
Charles River, Microbial Solutions
Hirox - USA
Siemens Building Technologies

TIME-TEMPERATURE MONITORS
ACR Systems
Anderson-Negele
Carltext
GE Sensing & Inspection Technologies
GMP Systems
Process Tek
Sensitech
Siemens Building Technologies
Siemens Process Industries + Drives
Testo
TMI USA
Two Dimensional Instruments
Vaisala

TOC ANALYZERS
GMP Systems
Rockwell Automation
Sci-Con
Siemens Process Industries + Drives
TELEDYNE TEKMAR

TOOLS, STAINLESS STEEL, STERILE
GMP Systems

TRANSDERMAL ADHESIVES
Adhesives Research
Daiichi Jitsugyo (America), Pharmaceutical Div

TRANSDERMAL DRUG DELIVERY
Adhesives Research
Aveva Drug Delivery Systems
Daiichi Jitsugyo (America), Pharmaceutical Div
Tapemark

TRANSDERMAL FILMS AND LINERS
Adhesives Research
Daiichi Jitsugyo (America), Pharmaceutical Div

TRANSDERMAL MEMBRANES
Adhesives Research
WL Gore & Assocs, Gore PharmBIO Products

TRANSMUCOSAL DRUG DELIVERY SYSTEMS
Adhesives Research
Aveva Drug Delivery Systems
Tapemark
WL Gore & Assocs, Gore PharmBIO Products

TRAPS, AIR
EquipNet
Ingersoll-Rand, Compressed Air Solutions

Nicholson Steam Trap, Div Circor Intl

TRAPS, CLEAN STEAM
Bergen Industrial Supply Co
EquipNet
GMP Systems
Nicholson Steam Trap, Div Circor Intl
Richard's Industries
Spirax Sarco

TRAY LOADING EQUIPMENT
AWS Bio-Pharma Technologies
Bosch Packaging Technology, Pharma
Cozzoli Machine Co
DJS Enterprises
FP Developments
Garvey Corp
HealthStar
Hurst Corp
IMA North America
ISO Tech Design
MagneMotion
MG America
Molded Fiber Glass Tray Co
Optima Machinery Corp
Seidenader Equipment
Telstar North America
Victor Intl Mktg

TRAYS, VIAL AND AMPUL
Bel-Art Products
DJS Enterprises
FP Developments
Garvey Corp
GMP Systems
Hurst Corp
MO Industries
Molded Fiber Glass Tray Co
Wheaton Industries, Wheaton Science Packaging

TUBING ASSEMBLIES (SINGLE-USE)
AdvantaPure
Aquasyn LLC
Benchmark Products
Bosch Packaging Technology, Pharma
Dow Corning, Pharma Solutions - Healthcare
GMP Systems
Intellitech
Parker domnick hunter

TUBING CONNECTORS
Advanced Scientific
AdvantaPure
Asahi/America
Bel-Art Products
Bergen Industrial Supply Co
Beswick Engineering Co
Clean Air Technologies O/A Eurovac
Consolidated Polymer Technologies
CPC - Colder Products Co
EquipNet
G-M-I
General Lab & Cleanroom Supply, dba General Lab Supply
GMP Systems
Kimble Chase, Life Sciences & Research
Parker domnick hunter
Parker Hannifin, Parflex / Texloc
Parker Hannifin Corp
Reiss Mfg, Ronsil Rubber & Kentron Plastics Divs
Rubber Fab
Ryan Herco Flow Solutions
Sci-Con
WL Gore & Assocs, Gore PharmBIO Products

Molex, LLC - Polymicro Technologies™
Parker domnick hunter
Parker Hannifin Corp
Powder-Solutions
Rubber Fab
Sartorius Stedim North America
Seal Master Corp
TW Metals
WL Gore & Assocs, Gore PharmBIO Products

TUBING, EXTRUSION
AdvantaPure
Consolidated Polymer Technologies
CPC - Colder Products Co
Dow Corning, Pharma Solutions - Healthcare
EquipNet
Flex Products
G-M-I
Parker Hannifin, Parflex / Texloc
Parker Hannifin Corp
Pawling Engineered Products
Rubber Fab
Seal Master Corp
TW Metals
WL Gore & Assocs, Gore PharmBIO Products

TUBING, PP
AdvantaPure
Asahi/America
Benchmark Products
Bergen Industrial Supply Co
EquipNet
Flex Products
G-M-I
General Lab & Cleanroom Supply, dba General Lab Supply
GMP Systems
Plastic Supply of PA
Reiss Mfg, Ronsil Rubber & Kentron Plastics Divs
Rubber Fab
Ryan Herco Flow Solutions

TUBING, PTFE
AdvantaPure
Asahi/America
Bel-Art Products
Benchmark Products
Bergen Industrial Supply Co
Chem Flowtronics
Cole-Parmer
CPC - Colder Products Co
EquipNet
G-M-I
General Lab & Cleanroom Supply, dba General Lab Supply
GMP Systems
Kimble Chase, Life Sciences & Research
Parker domnick hunter
Parker Hannifin, Parflex / Texloc
Parker Hannifin Corp
Reiss Mfg, Ronsil Rubber & Kentron Plastics Divs
Rubber Fab
Ryan Herco Flow Solutions
Sci-Con
WL Gore & Assocs, Gore PharmBIO Products

TUBING, PTFE-LINED STAINLESS STEEL
AdvantaPure
Bergen Industrial Supply Co
Chem Flowtronics
EquipNet
GMP Systems
Parker domnick hunter
Parker Hannifin, Parflex / Texloc
Rubber Fab
Ryan Herco Flow Solutions
WL Gore & Assocs, Gore PharmBIO Products

TUBING, PVC
AdvantaPure
APD Systems
Benchmark Products
Clean Air Technologies O/A Eurovac
Cole-Parmer
EquipNet
Flex Products
G-M-I
GMP Systems
Plastic Supply of PA
Reiss Mfg, Ronsil Rubber & Kentron Plastics Divs
Rubber Fab
Ryan Herco Flow Solutions

TUBING, PVDF
Asahi/America
Benchmark Products
EquipNet
GMP Systems
Parker Hannifin, Parflex / Texloc
Rubber Fab
Ryan Herco Flow Solutions

TUBING, SANITARY STAINLESS STEEL
A&B Process Systems Corp, JBT Corporation
AdvantaPure
Alfa Laval
APD Systems
Bergen Industrial Supply Co
EquipNet
GMP Systems
Integrated Gas Services
Parker Hannifin, Parflex / Texloc
RathGibson
Top Line Process Equipment Co
TW Metals
United Industries
VNE Corp
Westfield Sheet Metal Works

TUBING, SILICONE
Advanced Scientific
AdvantaPure
Benchmark Products
Bergen Industrial Supply Co
Cole-Parmer
Consolidated Polymer Technologies
Dow Corning, Pharma Solutions - Healthcare
EquipNet
G-M-I
GMP Systems
Integrated Packaging Systems
Parker domnick hunter
Parker Hannifin Corp
Reiss Mfg, Ronsil Rubber & Kentron Plastics Divs
Rubber Fab

Seal Master Corp
Top Line Process Equipment Co
WL Gore & Assocs, Gore PharmBIO Products

TUBULAR DECONTAMINATION SYSTEMS
ABC Actini

ULTRAFILTRATION EQUIPMENT
GEA Process Engineering, GEA Pharma Systems
GMP Systems
LM Air Technology, Cleanroom & Lab Equipment
Novasep
Pall Corp, Life Sciences Group
Pall Life Sciences, Biopharmaceuticals
Parker domnick hunter
Parker Hannifin Corp
SPX Flow

ULTRASONIC CLEANING EQUIPMENT
Branson
Ultrasonics Corp
General Lab & Cleanroom Supply, dba General Lab Supply
Glen Mills
groninger USA LLC, Marketing
L&R Mfg
Sani-Matic

UNSCRAMBLERS, ROTARY
BellatRx
Capmatic Ltd
CapPlus Technologies
Champion Trading Corp
Cozzoli Machine Co
DJS Enterprises
EquipNet
FP Developments
Garvey Corp
groninger USA LLC, Marketing
HealthStar
Integrated Packaging Systems
Kaps-All Packaging Systems
Keith Machinery Corp
Key Intl
New England Machinery
NJM Packaging, Powered by Pro Mach
Omega Design Corp

UNSCRAMBLERS, STRAIGHT-LINE
Capmatic Ltd
CapPlus Technologies
Champion Trading Corp
DJS Enterprises
EquipNet
Garvey Corp
HealthStar
Kaps-All Packaging Systems
Keith Machinery Corp
McBrady Engineering
Modular Packaging Systems
New England Machinery
NJM Packaging, Powered by Pro Mach
Omega Design Corp

USED MACHINERY AND EQUIPMENT
Advanced Synthesis, Chemical Div
ASG, Jergens
Bausch Advanced Technologies
CapPlus Technologies
Champion Trading Corp
Cozzoli Machine Co
De Dietrich Process Systems
DJS Enterprises
GCA Products
groninger USA LLC, Marketing
HealthStar
Jaygo
Keith Machinery Corp
Keystone Process Equipment
Kyte Centrifuge Sales & Consulting
Novasep
Pall Corp, Life Sciences Group
Pall Life Sciences, Biopharmaceuticals
Parker domnick hunter
Parker Hannifin Corp
SPX Flow

VACUUM CLEANER BAGS
Clean Air Technologies
O/A Eurovac
MEECO
Nilfisk, Industrial Vacuum Div

VACUUM CLEANERS, INDUSTRIAL
Benchmark Products
Blue Thunder Technologies
Clean Air Technologies O/A Eurovac
Dycem
EXAIR Corp
MEECO
Natoli Engineering Co
Nilfisk, Industrial Vacuum Div
Vac-U-Max

VACUUM CONTAINERS
Advanced Synthesis, Chemical Div
Apache Stainless Equipment Corp
Clean Air Technologies O/A Eurovac
Isolation Systems
MEECO
Samuel Pressure Vessel Group, Tomahawk
Vac-U-Max

VACUUM FLUID-BED EQUIPMENT
Clean Air Technologies O/A Eurovac
DJS Enterprises
Draiswerke
GEA Process Engineering, GEA Pharma Systems
HealthStar
IMA North America
MEECO
Mendel Co
Samuel Pressure Vessel Group, Tomahawk
Servolift
Vac-U-Max

VALVE ACTUATORS

APV, An SPX Brand,
 SPX Flow Technology
 Aquasyn LLC
 Asahi/America
 Capmatic Ltd
 CPV Mfg
 Festo Corp
 GEA Tuchenhausen
 North America
GEMU Valves
 GMP Systems
 Goyen Valve LLC,
 Pentair Environmental
 Systems
 Honeywell, Industrial
 Measurement &
 Controls Div
 IFM Ector
 Kemutec
 Key Intl
 Lee Industries, Process
 Systems & Equipment/
 Fluid Transfer Divs
 Nicholson Steam Trap,
 Div Circor Intl
 Parker Hannifin Corp
 PBM
 Plast-O-Matic Valves
 POSI FLATE
 Process Solutions
 Richard's Industries
 Seal Master Corp
 Servolift
 Spirax Sarco
 SPX Flow
 Strahman Valves
 Thar Process
 Top Line Process
 Equipment Co
Vac-U-Max
 VNE Corp
 Waukesha Cherry-
 Burrell, An SPX Flow
 Brand, SPX Flow

VALVE POSITION TRANSMITTERS

Aquasyn LLC
 Bergen Industrial
 Supply Co
 Festo Corp
 GEA Tuchenhausen
 North America
 GMP Systems
 IFM Ector
 Lee Industries, Process
 Systems & Equipment/
 Fluid Transfer Divs
 Nicholson Steam Trap,
 Div Circor Intl
 Plast-O-Matic Valves
 Spirax Sarco
 SPX Flow
 Waukesha Cherry-
 Burrell, An SPX Flow
 Brand, SPX Flow

VALVES, AIR-ACTUATED

Aquasyn LLC
 Asahi/America
 Beswick Engineering Co
 EquipNet
 Festo Corp
 First Sensor
 GEA Tuchenhausen
 North America
 GEMCO
GEMU Valves
 GMP Systems
 Goyen Valve LLC,
 Pentair Environmental
 Systems
 JLS Intl
 Kemutec
 Key Intl
 Lee Industries, Process
 Systems & Equipment/
 Fluid Transfer Divs
 MO Industries
 Nicholson Steam Trap,
 Div Circor Intl
 Parker, Fluid Control Div

Parker Hannifin Corp
 Plast-O-Matic Valves
 Ryan Herco Flow
 Solutions
 Servolift
 SPX Flow
 Strahman Valves
 Top Line Process
 Equipment Co

Vac-U-Max

VNE Corp
 Waukesha Cherry-
 Burrell, An SPX Flow
 Brand, SPX Flow

VALVES, ASEPTIC PROCESSING

Alfa Laval
 APV, An SPX Brand,
 SPX Flow Technology
 Aquasyn LLC
 EquipNet
 Festo Corp
 GEA Tuchenhausen
 North America
GEMU Valves
 GMP Systems
 Key Intl
 Lee Industries, Process
 Systems & Equipment/
 Fluid Transfer Divs
 PBM
 Process Tek
 SPX Flow
 Top Line Process
 Equipment Co
 Waukesha Cherry-
 Burrell, An SPX Flow
 Brand, SPX Flow

VALVES, BALL

Alfa Laval
 Asahi/America
 Beswick Engineering Co
 Chem Flowtronics
 Clean Air Technologies
 O/A Eurovac
 EquipNet
 Festo Corp
GEMU Valves
 GMP Systems
 Integrated Gas Services
 JLS Intl
 Key Intl
 Lee Industries, Process
 Systems & Equipment/
 Fluid Transfer Divs
 Marwin Valve
 Nicholson Steam Trap,
 Div Circor Intl
 Parker, Fluid Control Div
 Parker Hannifin Corp
 PBM
 Plast-O-Matic Valves
 VNE Corp
 Restek Corp
 Richard's Industries
 Richter Chemie-Technik
 GmbH
 Rubber Fab
 Ryan Herco Flow
 Solutions
 Spirax Sarco
 SPX Flow
 Top Line Process
 Equipment Co
 VNE Corp
 Waukesha Cherry-
 Burrell, An SPX Flow
 Brand, SPX Flow

VALVES, BOTTOM OUTLET

Alfa Laval
 Aquasyn LLC
 Bioengineering
 De Dietrich Process
 Systems
 EquipNet
 Festo Corp
 GEA Tuchenhausen
 North America
GEMU Valves
 GMP Systems

Isolation Systems
 JLS Intl
 Lee Industries, Process
 Systems & Equipment/
 Fluid Transfer Divs
 Plast-O-Matic Valves
 Richter Chemie-Technik
 GmbH
 Ryan Herco Flow
 Solutions
 Servolift
 SPX Flow
 Strahman Valves
 Top Line Process
 Equipment Co
 Waukesha Cherry-
 Burrell, An SPX Flow
 Brand, SPX Flow

VALVES, BUTTERFLY

Alfa Laval
 APV, An SPX Brand,
 SPX Flow Technology
 Asahi/America
 AZO
 Bergen Industrial
 Supply Co
 Clean Air Technologies
 O/A Eurovac
 Coperion K-Tron
 Custom Powder
 Systems.
 The Containment Co
 De Dietrich Process
 Systems
 EquipNet
 Festo Corp
 GEA Tuchenhausen
 North America
GEMU Valves
 GMP Systems
 Isolation Systems
 Kemutec
 Key Intl
 Met - Pro Global Pump
 Solutions - Fybroc
 MO Industries
 Nicholson Steam Trap,
 Div Circor Intl
 Parker Hannifin Corp
 Plast-O-Matic Valves
 POSI FLATE
 Process Solutions
 Richard's Industries
 Richter Chemie-Technik
 GmbH
 Ryan Herco Flow
 Solutions
 Seal Master Corp
 Servolift
 SPX Flow
 Top Line Process
 Equipment Co
Vac-U-Max
 VNE Corp
 Waukesha Cherry-
 Burrell, An SPX Flow
 Brand, SPX Flow

VALVES, CHECK

Alfa Laval
 Asahi/America
 Bel-Art Products
 Bergen Industrial
 Supply Co
 Beswick Engineering Co
 Chem Flowtronics
 CPV Mfg
 EquipNet
 Festo Corp
GEMU Valves
 GMP Systems
 Integrated Gas Services
 Intellitech
 Kemutec
 Nicholson Steam Trap,
 Div Circor Intl
 Parker, Fluid Control Div
 Parker Hannifin Corp
 Plast-O-Matic Valves
 Powder-Solutions
 Richter Chemie-Technik
 GmbH

Ryan Herco Flow
 Solutions
 Spirax Sarco
 SPX Flow
 Top Line Process
 Equipment Co
 VNE Corp
 Waukesha Cherry-
 Burrell, An SPX Flow
 Brand, SPX Flow

VALVES, CLOSURE

Alfa Laval
 Bergen Industrial
 Supply Co
 EquipNet
 Festo Corp
 GMP Systems
 JLS Intl
 Kemutec
 Lee Industries, Process
 Systems & Equipment/
 Fluid Transfer Divs
 Plast-O-Matic Valves
 Ryan Herco Flow
 Solutions
 Seal Master Corp
 Servolift
 SPX Flow
 Top Line Process
 Equipment Co
 Waukesha Cherry-
 Burrell, An SPX Flow
 Brand, SPX Flow

VALVES, CONTROL

Airgas
 Alfa Laval
 APV, An SPX Brand,
 SPX Flow Technology
 Aquasyn LLC
 Asahi/America
 Bel-Art Products
 Bergen Industrial
 Supply Co
 EquipNet
 Festo Corp
 First Sensor
 GEA Tuchenhausen
 North America
GEMU Valves
 GMP Systems
 Goyen Valve LLC,
 Pentair Environmental
 Systems
 JLS Intl
 Kemutec
 Kimble Chase, Life
 Sciences & Research
 Lee Industries, Process
 Systems & Equipment/
 Fluid Transfer Divs
 Marwin Valve
 Parker, Fluid Control Div
 Parker Hannifin Corp
 Plast-O-Matic Valves
 POSI FLATE
 Richard's Industries
 Ryan Herco Flow
 Solutions
 Seal Master Corp
 Servolift
 Sierra Instruments
 SPX Flow
 Top Line Process
 Equipment Co
Vac-U-Max
 Waukesha Cherry-
 Burrell, An SPX Flow
 Brand, SPX Flow

VALVES, DIAPHRAGM

Alfa Laval
 Aquasyn LLC
 Asahi/America
 Bergen Industrial
 Supply Co
 Bioengineering
 Chem Flowtronics
 EquipNet
 Festo Corp
GEMU Valves
 GMP Systems

Goyen Valve LLC,
 Pentair Environmental
 Systems
 Integrated Gas Services
 Isolation Systems
 Kemutec
 Lee Industries, Process
 Systems & Equipment/
 Fluid Transfer Divs
 Parker, Fluid Control Div
 Parker Hannifin Corp
 Plast-O-Matic Valves
 Richard's Industries
 Richter Chemie-Technik
 GmbH
 Ryan Herco Flow
 Solutions
 Seal Master Corp
 SPX Flow
 Top Line Process
 Equipment Co
 Waukesha Cherry-
 Burrell, An SPX Flow
 Brand, SPX Flow

VALVES, DISPOSABLE

Bergen Industrial
 Supply Co
 EquipNet
 Festo Corp
GEMU Valves
 GMP Systems
 Parker dominick hunter

VALVES, FLOW

Alfa Laval
 APV, An SPX Brand,
 SPX Flow Technology
 Aquasyn LLC
 Asahi/America
 Bel-Art Products
 Bergen Industrial
 Supply Co
 Beswick Engineering Co
 Coperion K-Tron
 EquipNet
 Festo Corp
GEMU Valves
 GMP Systems
 Isolation Systems
 JLS Intl
 Kemutec
 Key Intl
 Lee Industries, Process
 Systems & Equipment/
 Fluid Transfer Divs
 Marwin Valve
 Parker, Fluid Control Div
 Parker dominick hunter
 Parker Hannifin Corp
 Plast-O-Matic Valves
 POSI FLATE
 Richard's Industries
 Ryan Herco Flow
 Solutions
 Seal Master Corp
 Servolift
 Sierra Instruments
 SPX Flow
 Top Line Process
 Equipment Co
 VNE Corp
 Waukesha Cherry-
 Burrell, An SPX Flow
 Brand, SPX Flow

VALVES, GLASS-LINED

3V TECH USA
 Chem Flowtronics
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 EquipNet
 GMP Systems
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VALVES, PLASTIC PLUG

Alfa Laval
 Asahi/America

Bergen Industrial
 Supply Co
 Chem Flowtronics
 EquipNet
 Festo Corp
 GMP Systems
 Kimble Chase, Life
 Sciences & Research
 Plast-O-Matic Valves
 Restek Corp
 Ryan Herco Flow
 Solutions
 Waukesha Cherry-
 Burrell, An SPX Flow
 Brand, SPX Flow

VALVES, PTFE (METERING)

Asahi/America
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 Chem Flowtronics
 Cole-Parmer
 EquipNet
 Festo Corp
GEMU Valves
 GMP Systems
 Kimble Chase, Life
 Sciences & Research
 Richter Chemie-Technik
 GmbH
 Ryan Herco Flow
 Solutions

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 Kemutec
 Parker, Fluid Control Div
 Parker Hannifin Corp
 Plast-O-Matic Valves
 Richter Chemie-Technik
 GmbH
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 Solutions
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 Equipment Co
 VNE Corp

VALVES, ROTARY

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 EquipNet
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Parker Hannifin Corp
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Richard's Industries
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Top Line Process Equipment Co
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VNE Corp
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Labconco Corp
Lancer USA
Nicos Group
Optima Machinery Corp
Sani-Matic
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WATER PURIFICATION, DEIONIZATION

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EquipNet
Getinge USA, Life Science
GMP Systems
Labconco Corp
Medro Systems
Membrana
OBK Technology Ltd
Rockwell Automation
Samuel Pressure Vessel Group, Tomahawk
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MECO
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BOC, A member of The Linde Group
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Labconco Corp
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OBK Technology Ltd
Pall Life Sciences, Biopharmaceuticals
Process Tek
Rockwell Automation

Samuel Pressure Vessel Group, Tomahawk
Siemens Process Industries + Drives
Stilmas USA
Xylem Services GmbH

WATER, FOR INJECTION

A&B Process Systems Corp, JBT Corporation
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AWS Bio-Pharma Technologies
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GMP Systems
McBrady Engineering
MECO
Microdyn Technologies
OBK Technology Ltd
Pall Corp, Life Sciences Group
Paul Mueller Co
Samuel Pressure Vessel Group, Tomahawk
Stilmas USA
Telstar North America

WATER, ULTRAPURE

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EMD Millipore, A Div of Merck KGaA
Darmstadt Germany
Getinge USA, Life Science
GMP Systems
MECO
Membrana
Microdyn Technologies
Pall Corp, Life Sciences Group
Samuel Pressure Vessel Group, Tomahawk
Stilmas USA
Telstar North America

WELDING

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Asahi/America
Control Micro Systems
EquipNet
GMP Systems
Magnatech LLC
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Milestone
VWR Intl LLC

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Room Corp
CS Assocs
EXAIR Corp
Isolation Systems
Liberty Industries
Ultrapure Technology
VWR Intl LLC

AIR CURTAINS

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Connecticut Clean
Room Corp
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Angstrom Technology,
Marketing
CleanZones LLC
EXAIR Corp
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Lab Supply
Isolation Systems
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Ultrapure Technology
VWR Intl LLC

AIR HANDLING SYSTEMS

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Technologies
Buffalo Air Handling
CS Assocs
Fab-Tech
Flanders Corp,
Containment Products
HEMCO Corp
Isolation Systems
Liberty Industries
Munters Corp
Rockwell Automation
Scientific Dust Collectors
Siemens Building
Technologies
Siemens Process
Industries + Drives
Technovation Systems

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Halco Products Co, Div
Hale Engineering Co
Isolation Systems
Parker Hannifin Corp
Rockwell Automation

Siemens Building
Technologies
Siemens Process
Industries + Drives

AIR PRESSURE MONITORS

ACR Systems
Ashcroft
Biological Controls
Flow Sciences
Halco Products Co, Div
Hale Engineering Co
Hutchins & Hutchins,
Cleanroom Equipment /
Supply Distributor
Isolation Systems
Siemens Building
Technologies
Siemens Process
Industries + Drives

AIR SHOWERS

AdvanceTEC
AES Clean Technology
Angstrom Technology,
Marketing
Clean Rooms Intl
CleanZones LLC
Connecticut Clean
Room Corp
CS Assocs
F.P.S. Food and Pharma
Systems srl
Halco Products Co, Div
Hale Engineering Co
Hutchins & Hutchins,
Cleanroom Equipment /
Supply Distributor
Isolation Systems
Liberty Industries
LM Air Technology,
Cleanroom & Lab
Equipment
Telstar North America
Ultrapure Technology

AIR VELOCITY METERS

Ashcroft
CS Assocs
HEMCO Corp
Isolation Systems
Kanomax USA
Liberty Industries
Sierra Instruments
Testo

AIR VELOCITY MONITORS

Ashcroft
CS Assocs
Flow Sciences
Hampshire Controls Corp
Isolation Systems
Kanomax USA
Labconco Corp
Testo

AIRLOCKS

AdvanceTEC
AES Clean Technology
Clean Air Products
CleanZones LLC
ESCO Technologies
GEA Process
Engineering, GEA
Pharma Systems
Isolation Systems
Liberty Industries
Schenck Process
Telstar North America
Ultrapure Technology

ALARMS

Bel-Art Products
Flow Sciences
Hampshire Controls Corp
HEMCO Corp
Isolation Systems
Mil-Ram Technology
Rockwell Automation
Siemens Building
Technologies
Siemens Process
Industries + Drives
Vaisala
VWR Intl LLC

ANEMOMETERS

Hutchins & Hutchins,
Cleanroom Equipment /
Supply Distributor
Isolation Systems
Kanomax USA
Testo
VWR Intl LLC

APPLICATORS, FIBER-TIPPED

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Blue Thunder
Technologies
Connecticut Clean
Room Corp
General Lab & Cleanroom
Supply, dba General
Lab Supply
Lymtech Scientific
Ultrapure Technology
VWR Intl LLC

APPLICATORS, FOAM-TIPPED

Angstrom Supply
Blue Thunder
Technologies
Connecticut Clean
Room Corp
General Lab & Cleanroom
Supply, dba General
Lab Supply
Hutchins & Hutchins,
Cleanroom Equipment /
Supply Distributor
Liberty Industries
Lymtech Scientific
Ultrapure Technology
VWR Intl LLC

APPLICATORS, PLAIN WOOD

Blue Thunder
Technologies
Connecticut Clean
Room Corp
General Lab & Cleanroom
Supply, dba General
Lab Supply
Lymtech Scientific
Ultrapure Technology
VWR Intl LLC

APRONS, DISPOSABLE

Angstrom Supply
Bel-Art Products
Blue Thunder
Technologies
Cintas, Cleanroom Div
Connecticut Clean
Room Corp
FabOhio
General Econopak
General Lab & Cleanroom
Supply, dba General
Lab Supply

Hutchins & Hutchins,
Cleanroom Equipment /
Supply Distributor
STAXS
Ultrapure Technology
VWR Intl LLC

APRONS, REUSABLE

Angstrom Supply
Bel-Art Products
Blue Thunder
Technologies
Connecticut Clean
Room Corp
Euclid Vidaro Mfg Co
FabOhio
General Lab & Cleanroom
Supply, dba General
Lab Supply
Jenesso Industries
STAXS
Ultrapure Technology
VWR Intl LLC
Worklon

APRONS, STERILE

Angstrom Supply
Blue Thunder
Technologies
Cintas, Cleanroom Div
Connecticut Clean
Room Corp
General Econopak
General Lab & Cleanroom
Supply, dba General
Lab Supply
Hutchins & Hutchins,
Cleanroom Equipment /
Supply Distributor
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ATMOSPHERIC CHAMBERS

Flanders Corp,
Containment Products
Isolation Systems
VWR Intl LLC

BARRIER ISOLATORS

3V TECH USA
AES Clean Technology
Angstrom Technology,
Marketing
AWS Bio-Pharma
Technologies
BIOQUELL, Life Sciences
ESCO Technologies
Extract Technology
F.P.S. Food and Pharma
Systems srl
FabOhio
Flanders Corp,
Containment Products
Getinge USA, Life
Science
groninger USA LLC,
Marketing
Hutchins & Hutchins,
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Supply Distributor
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Systems
ISO Tech Design
Isolation Systems
Jenesso Industries
Mendel Co
Optima Machinery Corp
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Connecticut Clean
Room Corp
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General Lab & Cleanroom
Supply, dba General
Lab Supply
Hutchins & Hutchins,
Cleanroom Equipment /
Supply Distributor
Isolation Systems
Liberty Industries
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BENCHES, LAMINAR-FLOW

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Angstrom Technology,
Marketing
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Clean Air Products
Clean Rooms Intl
CleanZones LLC
Connecticut Clean
Room Corp
Flanders Corp,
Containment Products
Flow Sciences
General Lab & Cleanroom
Supply, dba General
Lab Supply
Gerbig Engineering
HEMCO Corp
Hutchins & Hutchins,
Cleanroom Equipment /
Supply Distributor
ISO Tech Design
Isolation Systems
Labconco Corp
Laminar Flow
Liberty Industries
LM Air Technology,
Cleanroom & Lab
Equipment
Technovation Systems
Telstar North America
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Ultrapure Technology
VWR Intl LLC

BIOLOGICAL SAFETY CABINETS

Benchmark Products
CleanZones LLC
CS Assocs
Flanders Corp,
Containment Products
Flow Sciences
General Lab & Cleanroom
Supply, dba General
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General Lab &
Cleanroom Supply,
dba General Lab
Supply
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BREATHER BAGS

Benchmark Products
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Cleanroom Supply,
dba General Lab
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Lymtech Scientific
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CARON Products
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Connecticut Clean
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Cleanroom Supply,
dba General Lab
Supply
HEMCO Corp
Hurst Corp
Hutchins & Hutchins,
Cleanroom Equipment
/ Supply Distributor
Isolation Systems
Justrite Mfg Co
Kewaunee
Scientific Corp
Liberty Industries
Lista Intl Corp
LM Air Technology,
Cleanroom & Lab
Equipment
Safety Equipment Corp
STAXS
Telstar North America
VWR Intl LLC
Westfield Sheet
Metal Works

CAPS

Angstrom Supply
Blue Thunder
Technologies
Cintas, Cleanroom Div
Connecticut Clean
Room Corp
General Econopak
General Lab &
Cleanroom Supply,
dba General Lab
Supply
Liberty Industries
Qosina
Shoe Inn
STAXS
VWR Intl LLC
Wheaton Industries,
Wheaton Science
Packaging

CAPS, DISPOSABLE

Angstrom Supply
Benchmark Products
Blue Thunder
Technologies
Cintas, Cleanroom Div
Connecticut Clean
Room Corp
General Econopak
General Lab &
Cleanroom Supply,
dba General Lab
Supply
Liberty Industries
Shoe Inn
STAXS
Ultrapure Technology
VWR Intl LLC
Wheaton Industries,
dba Wheaton Science
Packaging

CAPS, REUSABLE

Angstrom Supply
Blue Thunder
Technologies
Connecticut Clean
Room Corp
Euclid Vidaro Mfg Co
General Econopak
General Lab &
Cleanroom Supply,
dba General Lab
Supply
Liberty Industries
STAXS
Ultrapure Technology
VWR Intl LLC
Wheaton Industries,
Wheaton Science
Packaging
Worklon

CARTS

Akro-Mils
Angstrom Supply
AWS Bio-Pharma
Technologies
Benchmark Products
Bergen Industrial
Supply Co
Blue Thunder
Technologies
Cole-Parmer
Connecticut Clean
Room Corp
Garvey Corp
General Lab &
Cleanroom Supply,
dba General Lab
Supply
HEMCO Corp
Hurst Corp
Hutchins & Hutchins,
Cleanroom Equipment
/ Supply Distributor
InterMetro
Industries Corp
Isolation Systems
Kewaunee
Scientific Corp
Liberty Industries
Nicos Group
STAXS
Ultrapure Technology
Veltek Assocs
VWR Intl LLC
Westfield Sheet
Metal Works

CEILING FILTER MODULES, DISPOSABLE

AAF Flanders
AES Clean Technology
Angstrom Technology,
Marketing
Clean Rooms Intl
CleanZones LLC
Connecticut Clean
Room Corp
CS Assocs
Flanders Corp,
Containment Products

Gerbig Engineering
Halco Products Co, Div
Hale Engineering Co
Isolation Systems
Laminar Flow
Liberty Industries
LM Air Technology,
Cleanroom & Lab
Equipment
Nicos Group
Telstar North America
Ultrapure Technology

CEILING FILTER MODULES, SELF-CONTAINED

AAF Flanders
AdvanceTEC
AES Clean Technology
Angstrom Technology,
Marketing
AWS Bio-Pharma
Technologies
Clean Rooms Intl
CleanZones LLC
Connecticut Clean
Room Corp
CS Assocs
ESCO Technologies
Flanders Corp,
Containment Products
General Lab &
Cleanroom Supply,
dba General Lab
Supply
Gerbig Engineering
Halco Products Co, Div
Hale Engineering Co
HEMCO Corp
Hutchins & Hutchins,
Cleanroom Equipment
/ Supply Distributor
Isolation Systems
Laminar Flow
Liberty Industries
LM Air Technology,
Cleanroom & Lab
Equipment
Nicos Group
Simplex Isolation
Systems, TMI
International LLC
Technovation Systems
Telstar North America
The Baker Co
Ultrapure Technology

CEILING GRID SYSTEMS

AAF Flanders
AdvanceTEC
AES Clean Technology
Angstrom Technology,
Marketing
Clean Rooms Intl
CleanZones LLC
CS Assocs
Flanders Corp,
Containment Products
Gerbig Engineering
Halco Products Co, Div
Hale Engineering Co
Isolation Systems
Liberty Industries
LM Air Technology,
Cleanroom & Lab
Equipment
Nicos Group
Simplex Isolation
Systems, TMI
International LLC
Ultrapure Technology

CEILING PANELS

AAF Flanders
AdvanceTEC
AES Clean Technology
Angstrom Technology,
Marketing
Clean Rooms Intl
CleanZones LLC
CS Assocs
Gerbig Engineering

Halco Products Co, Div
Hale Engineering Co
HEMCO Corp
Isolation Systems
Liberty Industries
LM Air Technology,
Cleanroom & Lab
Equipment
Nicos Group
Simplex Isolation
Systems, TMI
International LLC
Telstar North America
Ultrapure Technology

CEILING SYSTEMS

AAF Flanders
AdvanceTEC
AES Clean Technology
Angstrom Technology,
Marketing
Clean Rooms Intl
CleanZones LLC
CS Assocs
Flanders Corp,
Containment Products
Gerbig Engineering
Halco Products Co, Div
Hale Engineering Co
Isolation Systems
Laminar Flow
Liberty Industries
LM Air Technology,
Cleanroom & Lab
Equipment
Nicos Group
Simplex Isolation
Systems, TMI
International LLC
Telstar North America
Ultrapure Technology

CERTIFICATION SERVICES

ACM, Advanced
Cleanroom Microclean
Air Filtration Mgmt
ATAGO USA
Clean Rooms Intl
Connecticut Clean
Room Corp
CS Assocs
Gerbig Engineering
Halco Products Co, Div
Hale Engineering Co
Integrated Service
Solutions
Isolation Systems
Liberty Industries
LM Air Technology,
Cleanroom & Lab
Equipment
Technovation Systems

CHAIRS

Angstrom Technology,
Marketing
Benchmark Products
Blue Thunder
Technologies
Connecticut Clean
Room Corp
General Lab &
Cleanroom Supply, dba
General Lab Supply
Hutchins & Hutchins,
Cleanroom Equipment
/ Supply Distributor
Isolation Systems
Liberty Industries
LM Air Technology,
Cleanroom & Lab
Equipment
Nicos Group
STAXS
Ultrapure Technology
VWR Intl LLC

CHEMICAL ADSORBERS

Flanders Corp,
Containment Products
Flow Sciences

STAXS
VWR Intl LLC

CLEANING AND SANITIZING AGENTS

Accurate Chemical &
Scientific Corp
ACM, Advanced
Cleanroom Microclean
Alconox
Angstrom Supply
Benchmark Products
Bergen Industrial
Supply Co
Clordisys Solutions
Connecticut Clean
Room Corp
Decon Labs
Dycem
Edgeco
General Lab &
Cleanroom Supply,
dba General Lab
Supply
Hutchins & Hutchins,
Cleanroom Equipment
/ Supply Distributor
International
Products Corp
ITW Texwipe
Liberty Industries
Sioux Corp
STAXS
Ultrapure Technology
Veltek Assocs
VWR Intl LLC

CLEANING TOOLS

ACM, Advanced
Cleanroom Microclean
Angstrom Supply
Bel-Art Products
Benchmark Products
Blue Thunder
Technologies
Contec
Dycem
Gamajet Cleaning
Systems
General Lab &
Cleanroom Supply,
dba General Lab
Supply
Hutchins & Hutchins,
Cleanroom Equipment
/ Supply Distributor
ITW Texwipe
Liberty Industries
Milestone
Perfex Corp
Sioux Corp
STAXS
Ultrapure Technology
VWR Intl LLC

CLIPBOARDS

Benchmark Products
Blue Thunder
Technologies
Connecticut Clean
Room Corp
Edgeco
ITW Texwipe
Liberty Industries
Ultrapure Technology
VWR Intl LLC

COMPRESSORS

CS Assocs
Tuthill Vacuum Blower
Systems

CONSTRUCTION SERVICES

A&B Process Systems
Corp, JBT Corporation
ACM, Advanced
Cleanroom Microclean
AdvanceTEC
AES Clean Technology
Angstrom Technology,
Marketing
Clean Rooms Intl

CS Assocs
Gerbig Engineering
Liberty Industries
Nicos Group
Ultrapure Technology

CONTAINMENT ROOMS

AdvanceTEC
AES Clean Technology
Angstrom Technology,
Marketing
AWS Bio-Pharma
Technologies
Benchmark Products
Clean Rooms Intl
CleanZones LLC
CS Assocs
FabOhio
Flanders Corp,
Containment Products
HEMCO Corp
ILC Dover
Integrated Containment
Systems
International
Portland Corp
Isolation Systems
Laminar Flow
Liberty Industries
LM Air Technology,
Cleanroom & Lab
Equipment
Nicos Group
Seal Master Corp
Simplex Isolation
Systems, TMI
International LLC
Telstar North America
TRS Containers
Ultrapure Technology
VWR Intl LLC
Wirecrafters LLC

CONVEYOR SYSTEMS

ATS Automation
Tooling Systems
AWS Bio-Pharma
Technologies
AZO
Fenner Drives
FP Developments
Garvey Corp
ILC Dover
Nilfisk, Industrial
Vacuum Div
Oyster Bay Pump Works
Piab
Zed Industries

COVERALLS, DISPOSABLE

ACM, Advanced
Cleanroom Microclean
Angstrom Supply
Benchmark Products
Blue Thunder
Technologies
Cintas, Cleanroom Div
Connecticut Clean
Room Corp
Edgeco
General Econopak
General Lab &
Cleanroom Supply,
dba General Lab
Supply
Hutchins & Hutchins,
Cleanroom Equipment
/ Supply Distributor
Liberty Industries
STAXS
Ultrapure Technology
UniClean,
Div Unifirst Corp
Veltek Assocs
VWR Intl LLC

COVERALLS, REUSABLE

Angstrom Supply
Benchmark Products

Blue Thunder
Technologies
Connecticut Clean
Room Corp
Euclid Vidaro Mfg Co
General Lab &
Cleanroom Supply,
dba General Lab
Supply
Hutchins & Hutchins,
Cleanroom Equipment
/ Supply Distributor
Liberty Industries
STAXS
Ultrapure Technology
UniClean,
Div Unifirst Corp
VWR Intl LLC
Worklon

COVERALLS, STERILE

ACM, Advanced
Cleanroom Microclean
Angstrom Supply
Benchmark Products
Blue Thunder
Technologies
Cintas, Cleanroom Div
Connecticut Clean
Room Corp
General Econopak
General Lab &
Cleanroom Supply,
dba General Lab
Supply
Hutchins & Hutchins,
Cleanroom Equipment
/ Supply Distributor
Liberty Industries
STAXS
Ultrapure Technology
UniClean,
Div Unifirst Corp
Veltek Assocs
VWR Intl LLC

CURTAINS

AES Clean Technology
Angstrom Technology,
Marketing
Benchmark Products
Blue Thunder
Technologies
Clean Rooms Intl
Connecticut Clean
Room Corp
FabOhio
General Lab &
Cleanroom Supply,
dba General Lab
Supply
Hutchins & Hutchins,
Cleanroom Equipment
/ Supply Distributor
Isolation Systems
Liberty Industries
LM Air Technology,
Cleanroom & Lab
Equipment
Simplex Isolation
Systems, TMI
International LLC
TRAX Industrial
Curtains
Ultrapure Technology
VWR Intl LLC

CUSTOM-BUILT EQUIPMENT

3V TECH USA
A&B Process Systems
Corp, JBT Corporation
AES Clean Technology
Angstrom Technology,
Marketing
AWS Bio-Pharma
Technologies
Buffalo Air Handling
Clean Rooms Intl
CleanZones LLC
Cozzoli Machine Co
ESCO Technologies

Evaporator Dryer
Technologies
Flanders Corp,
Containment Products
Flow Sciences
Fortress Technology
Garvey Corp
GMP Systems
Halco Products Co, Div
Hale Engineering Co
Hutchins & Hutchins,
Cleanroom Equipment
/ Supply Distributor
ILC Dover
International
Portland Corp
Isolation Systems
Liberty Industries
Material Transfer &
Storage
Mendel Co
Oyster Bay Pump Works
Pink GmbH
Thermosysteme
Simplex Isolation
Systems, TMI
International LLC
Sioux Corp
Telstar North America
The Baker Co
Ultrapure Technology

DEHUMIDIFIERS

CS Assocs
Isolation Systems
Membrana
Munters Corp
WA Hammond Drierite
Co Ltd

DESICCATOR CABINETS

Bel-Art Products
Benchmark Products
Blue Thunder
Technologies
Clean Air Products
Connecticut Clean
Room Corp
General Lab &
Cleanroom Supply,
dba General Lab
Supply
Isolation Systems
Labconco Corp
Liberty Industries
VWR Intl LLC
WA Hammond Drierite
Co Ltd

DESIGN SERVICES

A&B Process Systems
Corp, JBT Corporation
AdvanceTEC
AES Clean Technology
Clean Rooms Intl
Cleanroom Mgmt
Assocs
CS Assocs
Dr Geoffrey P Jacobs
Assocs
Gerbig Engineering
Halco Products Co, Div
Hale Engineering Co
ILC Dover
Isolation Systems
Keller Packaging
Engineering Group
LLC
Nicos Group
Technovation Systems
URS Corp
Viega LLC
VWR Intl LLC
Xcellerex

DESIGN SOFTWARE

Siemens Process
Industries + Drives

DIFFUSERS

CS Assocs
Isolation Systems

Liberty Industries
Nicos Group
Westfield Sheet
Metal Works

DOORS, AUTOMATIC

AES Clean Technology
ASI Doors, Cleanseal
Door Systems
Clean Rooms Intl
Erich Industries
Isolation Systems
LM Air Technology,
Cleanroom & Lab
Equipment
Nergoco Entrematic,
Entrematic HPD
Nicos Group

DOORS, MANUAL

AES Clean Technology
ASI Doors, Cleanseal
Door Systems
Clean Rooms Intl
Erich Industries
Evaporator Dryer
Technologies
Isolation Systems
LM Air Technology,
Cleanroom & Lab
Equipment
Nicos Group
Simplex Isolation
Systems, TMI
International LLC
TRAX Industrial
Curtains

DUCTS

Clean Air Technologies
O/A Eurovac
CS Assocs
Fab-Tech
HEMCO Corp
Isolation Systems
Plastic Supply of PA
Plymovent NA
Ryan Herco Flow
Solutions

ELECTRICAL EQUIPMENT

ASG, Jergens
CS Assocs
Siemens Building
Technologies
Siemens Process
Industries + Drives

ENERGY MANAGEMENT SYSTEMS

ACR Systems
CS Assocs
E Instruments Intl
Flow Sciences
Rockwell Automation
Siemens Building
Technologies
Siemens Process
Industries + Drives
Sierra Instruments

ENGINEERING SERVICES

A&B Process Systems
Corp, JBT Corporation
AdvanceTEC
AES Clean Technology
Aggreko, North America
ASG, Jergens
ATS Automation
Tooling Systems
Clean Rooms Intl
CS Assocs
EHS Solutions LLC
El Assocs, Designers &
Builders
Evaporator Dryer
Technologies
Halco Products Co, Div
Hale Engineering Co

Isolation Systems
Keller Packaging
Engineering Group
LLC
pixon engineering AG
Siemens Process
Industries + Drives
Technovation Systems
Telstar North America
URS Corp

ENVIRONMENTAL CONTROL SYSTEMS

Anguil Environmental
Systems
CECO Environmental
CS Assocs
ENMET
ESCO Technologies
ETC, Sterilization
Systems
Halco Products Co, Div
Hale Engineering Co
Isolation Systems
Liberty Industries
Neutronics
Process Tek
Rockwell Automation
Scientific Dust
Collectors
Siemens Building
Technologies
Siemens Process
Industries + Drives

ENVIRONMENTAL SENSORS

Carltext
Clean Air Technologies
O/A Eurovac
Isolation Systems
Kanomax USA
MEECO
Mil-Ram Technology
Neutronics
Process Tek
Rapid Micro Biosystems
Rotronic
Sensitech
Siemens Building
Technologies
Siemens Process
Industries + Drives
Vaisala
VWR Intl LLC

ENVIRONMENTAL TEST CHAMBERS

Bahnson Environmental
Specialties, An
EMCOR Co
CARON Products
Services
General Lab &
Cleanroom Supply,
dba General Lab
Supply
HEMCO Corp
Isolation Systems
LM Air Technology,
Cleanroom & Lab
Equipment
Technovation Systems
Thunder Scientific Corp
VWR Intl LLC

EPOXY FINISHES

AdvanceTEC
Bel-Art Products
Isolation Systems
ITW Devcon
Liberty Industries

EXHAUST CONTROL VALVES

Isolation Systems

EXHAUST CONTROLLERS

Isolation Systems
Plymovent NA

EXHAUST SYSTEMS

Air Purifiers
Biological Controls
Clean Air Technologies
O/A Eurovac
Clean Rooms Intl
CS Assocs
Fab-Tech
Flanders Corp,
Containment Products
Flow Sciences
HEMCO Corp
International
Portland Corp
Isolation Systems
Plymovent NA
Westfield Sheet
Metal Works

FACE MASKS, DISPOSABLE

ACM, Advanced
Cleanroom Microclean
Angstrom Supply
Benchmark Products
Blue Thunder
Technologies
Buffalo Filter
Cintas, Cleanroom Div
Connecticut Clean
Room Corp
Edgeco
General Econopak
General Lab &
Cleanroom Supply,
dba General Lab
Supply
Hutchins & Hutchins,
Cleanroom Equipment
/ Supply Distributor
ILC Dover
Liberty Industries
Shoe Inn
STAXS
Ultrapure Technology
UniClean,
Div Unifirst Corp
Veltek Assocs
VWR Intl LLC

FACE MASKS, FOAM

ACM, Advanced
Cleanroom Microclean
Angstrom Supply
Blue Thunder
Technologies
Cintas, Cleanroom Div
Connecticut Clean
Room Corp
General Lab &
Cleanroom Supply,
dba General Lab
Supply
Liberty Industries
STAXS
Ultrapure Technology
VWR Intl LLC

FACE MASKS, MOLDED

Angstrom Supply
Benchmark Products
Blue Thunder
Technologies
Cintas, Cleanroom Div
Connecticut Clean
Room Corp
General Lab &
Cleanroom Supply,
dba General Lab
Supply
Liberty Industries
STAXS
Ultrapure Technology
VWR Intl LLC

FACE MASKS, REUSABLE

Angstrom Supply
Blue Thunder
Technologies
Cintas, Cleanroom Div
Connecticut Clean
Room Corp

For vendor contact information, see Company Directory section.

Euclid Vidaro Mfg Co
General Lab &
Cleanroom Supply,
dba General Lab
Supply
Hutchins & Hutchins,
Cleanroom Equipment
/ Supply Distributor
ILC Dover
Liberty Industries
STAXS
Ultrapure Technology
UniClean,
Div Unifirst Corp
VWR Intl LLC
Worklon

FACE MASKS, STERILE

ACM, Advanced
Cleanroom Microclean
Angstrom Supply
Benchmark Products
Blue Thunder
Technologies
Cintas, Cleanroom Div
Connecticut Clean
Room Corp
General Econopak
General Lab &
Cleanroom Supply,
dba General Lab
Supply
Hutchins & Hutchins,
Cleanroom Equipment
/ Supply Distributor
ILC Dover
STAXS
Ultrapure Technology
UniClean,
Div Unifirst Corp
Veltek Assocs
VWR Intl LLC

FACILITY MONITORING SYSTEMS

Climet Instruments Co
CS Assocs
GE Sensing &
Inspection
Technologies
Hampshire Controls
Corp
Hutchins & Hutchins,
Cleanroom Equipment
/ Supply Distributor
Kanomax USA
Microbiological
Environments
Mil-Ram Technology
Siemens Building
Technologies
Two Dimensional
Instruments
Vaisala
Veltek Assocs

FANS

Clean Rooms Intl
CleanZones LLC
CS Assocs
Elmo Rietschle
Products, Industrial
Products Group
Flow Sciences
Isolation Systems
Plymovent NA
Ultrapure Technology

FILTERS, HEPA ULPA

ACM, Advanced
Cleanroom Microclean
AES Clean Technology
Air Purifiers
AirClean Systems
Angstrom Supply
Angstrom Technology,
Marketing
Blue Thunder
Technologies
Buffalo Filter
Clean Air Technologies
O/A Eurovac

Clean Rooms Intl
CleanZones LLC
Connecticut Clean
Room Corp
CS Assocs
EquipNet
Flanders Corp,
Containment Products
General Lab &
Cleanroom Supply,
dba General Lab
Supply
Gerbig Engineering
Halco Products Co, Div
Hale Engineering Co
HEMCO Corp
Hutchins & Hutchins,
Cleanroom Equipment
/ Supply Distributor
Isolation Systems
Labconco Corp
Liberty Industries
Plymovent NA
Ultrapure Technology
VWR Intl LLC

FIRE SUPPRESSION SYSTEMS

Bel-Art Products
Evaporator Dryer
Technologies
HEMCO Corp
Isolation Systems
Viega LLC

FIRE/SMOKE DETECTION SYSTEMS

CS Assocs
Isolation Systems
Mil-Ram Technology

FLOOR FINISHES

ACM, Advanced
Cleanroom Microclean
Blue Thunder
Technologies
CS Assocs
General Lab &
Cleanroom Supply,
dba General Lab
Supply
ITW Devcon
Liberty Industries
Nicos Group
Stonhard

FLOOR STRIPPERS

ACM, Advanced
Cleanroom Microclean
Blue Thunder
Technologies
General Lab &
Cleanroom Supply,
dba General Lab
Supply
Liberty Industries

FLOOR SUPPORT SYSTEMS

ACM, Advanced
Cleanroom Microclean
Fibergrate Composite
Structures

FLOOR WAX

ACM, Advanced
Cleanroom Microclean
Blue Thunder
Technologies

General Lab &
Cleanroom Supply,
dba General Lab
Supply

FLOORING

Angstrom Technology,
Marketing
CS Assocs
Dycem
Fibergrate Composite
Structures
HEMCO Corp
Nicos Group
Stonhard

FOGGERS

Benchmark Products
Veltek Assocs

FRAMING SYSTEMS

CS Assocs
Isolation Systems
Nicos Group

FROCKS, DISPOSABLE

ACM, Advanced
Cleanroom Microclean
Angstrom Supply
Benchmark Products
Blue Thunder
Technologies
Cintas, Cleanroom Div
Connecticut Clean
Room Corp
General Econopak
General Lab &
Cleanroom Supply,
dba General Lab
Supply
Hutchins & Hutchins,
Cleanroom Equipment
/ Supply Distributor
Liberty Industries
Ultrapure Technology
UniClean,
Div Unifirst Corp
Veltek Assocs
VWR Intl LLC

FROCKS, REUSABLE

ACM, Advanced
Cleanroom Microclean
Angstrom Supply
Benchmark Products
Blue Thunder
Technologies
Connecticut Clean
Room Corp
Euclid Vidaro Mfg Co
General Lab &
Cleanroom Supply,
dba General Lab
Supply
Hutchins & Hutchins,
Cleanroom Equipment
/ Supply Distributor
Liberty Industries
UniClean,
Div Unifirst Corp
VWR Intl LLC
Worklon

FROCKS, STERILE

ACM, Advanced
Cleanroom Microclean
Angstrom Supply
Benchmark Products
Blue Thunder
Technologies
Cintas, Cleanroom Div
Connecticut Clean
Room Corp
General Econopak
General Lab &
Cleanroom Supply,
dba General Lab
Supply
Hutchins & Hutchins,
Cleanroom Equipment
/ Supply Distributor

Liberty Industries
Ultrapure Technology
UniClean,
Div Unifirst Corp
Veltek Assocs
VWR Intl LLC

FUME HOODS

AirClean Systems
Angstrom Technology,
Marketing
Bel-Art Products
Blue Thunder
Technologies
Clean Air Products
Clean Rooms Intl
CleanZones LLC
Cole-Parmer
CS Assocs
ERE
Fab-Tech
Flanders Corp,
Containment Products
Flow Sciences
General Lab &
Cleanroom Supply,
dba General Lab
Supply
HEMCO Corp
Hutchins & Hutchins,
Cleanroom Equipment
/ Supply Distributor
International
Portland Corp
Isolation Systems
Kewaunee
Scientific Corp
Labconco Corp
Laminar Flow
Liberty Industries
LM Air Technology,
Cleanroom & Lab
Equipment
Ryan Herco Flow
Solutions
The Baker Co
Ultrapure Technology
VWR Intl LLC

FURNITURE

Angstrom Technology,
Marketing
Benchmark Products
Blue Thunder
Technologies
Cole-Parmer
Connecticut Clean
Room Corp
Flanders Corp,
Containment Products
General Lab &
Cleanroom Supply,
dba General Lab
Supply
HEMCO Corp
Hutchins & Hutchins,
Cleanroom Equipment
/ Supply Distributor
Isolation Systems
Laminar Flow
Liberty Industries
LM Air Technology,
Cleanroom & Lab
Equipment
STAXS
Ultrapure Technology
UniClean,
Div Unifirst Corp
VWR Intl LLC

GARMENT CLEANING EQUIPMENT

Hutchins & Hutchins,
Cleanroom Equipment
/ Supply Distributor
Ultrapure Technology

GARMENT FABRIC

Angstrom Supply
Blue Thunder
Technologies

General Lab &
Cleanroom Supply,
dba General Lab
Supply
Precision Fabrics
Group, Performance
Fabrics Div

GARMENT RACKS

Angstrom Supply
Angstrom Technology,
Marketing
Benchmark Products
Blue Thunder
Technologies
Clean Air Products
CleanZones LLC
Connecticut Clean
Room Corp
General Lab &
Cleanroom Supply,
dba General Lab
Supply
Gerbig Engineering
Halco Products Co, Div
Hale Engineering Co
Hutchins & Hutchins,
Cleanroom Equipment
/ Supply Distributor
InterMetro
Industries Corp
Isolation Systems
Laminar Flow
Liberty Industries
LM Air Technology,
Cleanroom & Lab
Equipment
STAXS
Ultrapure Technology
VWR Intl LLC

GARMENT STORAGE BAGS

Benchmark Products
Euclid Vidaro Mfg Co
General Lab &
Cleanroom Supply,
dba General Lab
Supply
Ultrapure Technology
VWR Intl LLC

GARMENTS, DISPOSABLE

ACM, Advanced
Cleanroom Microclean
Angstrom Supply
Benchmark Products
Blue Thunder
Technologies
Cintas, Cleanroom Div
Connecticut Clean
Room Corp
General Econopak
General Lab &
Cleanroom Supply,
dba General Lab
Supply
Hutchins & Hutchins,
Cleanroom Equipment
/ Supply Distributor
Liberty Industries
STAXS
Ultrapure Technology
UniClean,
Div Unifirst Corp
Veltek Assocs
VWR Intl LLC

GARMENTS, RENTAL

Blue Thunder
Technologies
Cintas, Cleanroom Div
STAXS
UniClean,
Div Unifirst Corp
VWR Intl LLC

GARMENTS, REUSABLE

Angstrom Supply
Benchmark Products

Blue Thunder
Technologies
Cintas, Cleanroom Div
Connecticut Clean
Room Corp
Euclid Vidaro Mfg Co
General Lab &
Cleanroom Supply,
dba General Lab
Supply
Hutchins & Hutchins,
Cleanroom Equipment
/ Supply Distributor
Liberty Industries
STAXS
Ultrapure Technology
UniClean,
Div Unifirst Corp
VWR Intl LLC
Worklon

GARMENTS, STERILE

ACM, Advanced
Cleanroom Microclean
Angstrom Supply
Benchmark Products
Blue Thunder
Technologies
Cintas, Cleanroom Div
Connecticut Clean
Room Corp
General Econopak
General Lab &
Cleanroom Supply,
dba General Lab
Supply
Hutchins & Hutchins,
Cleanroom Equipment
/ Supply Distributor
Liberty Industries
STAXS
Ultrapure Technology
UniClean,
Div Unifirst Corp
Veltek Assocs
VWR Intl LLC

GARMENTS, TYVEK

ACM, Advanced
Cleanroom Microclean
Angstrom Supply
Benchmark Products
Blue Thunder
Technologies
Cintas, Cleanroom Div
Connecticut Clean
Room Corp
General Econopak
General Lab &
Cleanroom Supply,
dba General Lab
Supply
Hutchins & Hutchins,
Cleanroom Equipment
/ Supply Distributor
Liberty Industries
STAXS
Ultrapure Technology
VWR Intl LLC

GASES

Airgas

GASKETS

Bergen Industrial
Supply Co

GLOVE BOXES

3V TECH USA
Accurate Chemical &
Scientific Corp
Angstrom Supply
Bel-Art Products
Benchmark Products
Blue Thunder
Technologies
Cole-Parmer
Connecticut Clean
Room Corp
Custom Powder
Systems. The
Containment Co

Edgeco
 ESCO Technologies
 Extract Technology
 F.P.S. Food and Pharma
 Systems srl
 FabOhio
 Flanders Corp.,
 Containment Products
 Flow Sciences
 General Lab &
 Cleanroom Supply,
 dba General Lab
 Supply
 Halco Products Co, Div
 Hale Engineering Co
 Hosokawa Micron
 Powder Systems
 Hutchins & Hutchins,
 Cleanroom Equipment
 / Supply Distributor
 ILC Dover
 Integrated Containment
 Systems
 ISO Tech Design
 Isolation Systems
 Jenessco Industries
 Labconco Corp
 Laminar Flow
 Liberty Industries
 NexGen Enviro Systems
 Pink GmbH
 Thermosysteme
 Plastic Supply of PA
 Process Tek
 Renco Corp
 Ryan Herco Flow
 Solutions
 STAXS
 Telstar North America
 The Baker Co
 Ultrapure Technology
 VWR Intl LLC
 Westfield Sheet
 Metal Works

GLOVE LINERS

Angstrom Supply
 Benchmark Products
 Blue Thunder
 Technologies
 Connecticut Clean
 Room Corp
 General Lab &
 Cleanroom Supply,
 dba General Lab
 Supply
 Hutchins & Hutchins,
 Cleanroom Equipment
 / Supply Distributor
 Jenessco Industries
 Liberty Industries
 Renco Corp
 Shoe Inn
 STAXS
 Ultrapure Technology
 VWR Intl LLC

**GLOVES,
 AMBIDEXTROUS**

Angstrom Supply
 Benchmark Products
 Blue Thunder
 Technologies
 Cintas, Cleanroom Div
 Connecticut Clean
 Room Corp
 Custom Powder
 Systems. The
 Containment Co
 General Lab &
 Cleanroom Supply,
 dba General Lab
 Supply
 Hutchins & Hutchins,
 Cleanroom Equipment
 / Supply Distributor
 Jenessco Industries
 KNF Corp
 Liberty Industries
 QRP Gloves
 Renco Corp
 Shoe Inn
 STAXS
 VWR Intl LLC

**GLOVES,
 DISPOSABLE**

ACM, Advanced
 Cleanroom Microclean
 Angstrom Supply
 Ansell Protective
 Products,
 Occupational
 Healthcare Div
 Benchmark Products
 Blue Thunder
 Technologies
 Cintas, Cleanroom Div
 Cole-Parmer
 Connecticut Clean
 Room Corp
 Edgeco
 General Lab &
 Cleanroom Supply,
 dba General Lab
 Supply
 Hutchins & Hutchins,
 Cleanroom Equipment
 / Supply Distributor
 KNF Corp
 Liberty Industries
 QRP Gloves
 Renco Corp
 Shoe Inn
 STAXS
 Ultrapure Technology
 VWR Intl LLC

GLOVES, LATEX

ACM, Advanced
 Cleanroom Microclean
 Angstrom Supply
 Ansell Protective
 Products,
 Occupational
 Healthcare Div
 Benchmark Products
 Blue Thunder
 Technologies
 Cintas, Cleanroom Div
 Connecticut Clean
 Room Corp
 Edgeco
 General Lab &
 Cleanroom Supply,
 dba General Lab
 Supply
 Hutchins & Hutchins,
 Cleanroom Equipment
 / Supply Distributor
 Isolation Systems
 Labconco Corp
 Liberty Industries
 QRP Gloves
 Renco Corp
 Shoe Inn
 STAXS
 Ultrapure Technology
 VWR Intl LLC

GLOVES, NEOPRENE

ACM, Advanced
 Cleanroom Microclean
 Angstrom Supply
 Ansell Protective
 Products,
 Occupational
 Healthcare Div
 Bel-Art Products
 Benchmark Products
 Blue Thunder
 Technologies
 Cintas, Cleanroom Div
 Connecticut Clean
 Room Corp
 Edgeco
 Flanders Corp,
 Containment Products
 General Lab &
 Cleanroom Supply,
 dba General Lab
 Supply
 Hutchins & Hutchins,
 Cleanroom Equipment
 / Supply Distributor
 Isolation Systems
 Labconco Corp
 Liberty Industries
 QRP Gloves

Renco Corp
 Shoe Inn
 STAXS
 Ultrapure Technology
 VWR Intl LLC

GLOVES, NITRILE

ACM, Advanced
 Cleanroom Microclean
 Angstrom Supply
 Ansell Protective
 Products,
 Occupational
 Healthcare Div
 Benchmark Products
 Blue Thunder
 Technologies
 Cintas, Cleanroom Div
 Connecticut Clean
 Room Corp
 Edgeco
 FabOhio
 Flanders Corp,
 Containment Products
 General Lab &
 Cleanroom Supply,
 dba General Lab
 Supply
 Hutchins & Hutchins,
 Cleanroom Equipment
 / Supply Distributor
 Isolation Systems
 Jenessco Industries
 Labconco Corp
 Liberty Industries
 QRP Gloves
 Renco Corp
 Shoe Inn
 STAXS
 Ultrapure Technology
 VWR Intl LLC

GLOVES, NYLON

ACM, Advanced
 Cleanroom Microclean
 Angstrom Supply
 Ansell Protective
 Products,
 Occupational
 Healthcare Div
 Benchmark Products
 Blue Thunder
 Technologies
 Connecticut Clean
 Room Corp
 General Lab &
 Cleanroom Supply,
 dba General Lab
 Supply
 Hutchins & Hutchins,
 Cleanroom Equipment
 / Supply Distributor
 Isolation Systems
 Jenessco Industries
 Liberty Industries
 QRP Gloves
 Renco Corp
 STAXS
 Ultrapure Technology
 VWR Intl LLC

**GLOVES,
 POLYESTER**

ACM, Advanced
 Cleanroom Microclean
 Angstrom Supply
 Ansell Protective
 Products,
 Occupational
 Healthcare Div
 Benchmark Products
 Blue Thunder
 Technologies
 Connecticut Clean
 Room Corp
 General Lab &
 Cleanroom Supply,
 dba General Lab
 Supply
 Hutchins & Hutchins,
 Cleanroom Equipment
 / Supply Distributor
 Liberty Industries

QRP Gloves
 Renco Corp
 STAXS
 Ultrapure Technology
 VWR Intl LLC

**GLOVES,
 POLYURETHANE**

ACM, Advanced
 Cleanroom Microclean
 Angstrom Supply
 Ansell Protective
 Products,
 Occupational
 Healthcare Div
 Benchmark Products
 Blue Thunder
 Technologies
 Connecticut Clean
 Room Corp
 Flanders Corp,
 Containment Products
 General Lab &
 Cleanroom Supply,
 dba General Lab
 Supply
 Hutchins & Hutchins,
 Cleanroom Equipment
 / Supply Distributor
 Isolation Systems
 Liberty Industries
 QRP Gloves
 Renco Corp
 STAXS
 Ultrapure Technology
 VWR Intl LLC

**GLOVES, POWDER-
 FREE**

ACM, Advanced
 Cleanroom Microclean
 Ansell Protective
 Products,
 Occupational
 Healthcare Div
 Benchmark Products
 Blue Thunder
 Technologies
 Cintas, Cleanroom Div
 Connecticut Clean
 Room Corp
 Edgeco
 General Lab &
 Cleanroom Supply,
 dba General Lab
 Supply
 Hutchins & Hutchins,
 Cleanroom Equipment
 / Supply Distributor
 Liberty Industries
 QRP Gloves
 Renco Corp
 Shoe Inn
 STAXS
 Ultrapure Technology
 VWR Intl LLC

**GLOVES,
 POWDERED**

ACM, Advanced
 Cleanroom Microclean
 Angstrom Supply
 Ansell Protective
 Products,
 Occupational
 Healthcare Div
 Blue Thunder
 Technologies
 Cintas, Cleanroom Div
 Connecticut Clean
 Room Corp
 Edgeco
 General Lab &
 Cleanroom Supply,
 dba General Lab
 Supply
 Hutchins & Hutchins,
 Cleanroom Equipment
 / Supply Distributor
 QRP Gloves
 Renco Corp
 Shoe Inn
 STAXS

Ultrapure Technology
 VWR Intl LLC

GLOVES, PTFE

ACM, Advanced
 Cleanroom Microclean
 Benchmark Products
 Blue Thunder
 Technologies
 Connecticut Clean
 Room Corp
 Flanders Corp,
 Containment Products
 General Lab &
 Cleanroom Supply,
 dba General Lab
 Supply
 Hutchins & Hutchins,
 Cleanroom Equipment
 / Supply Distributor
 Isolation Systems
 KNF Corp
 QRP Gloves
 STAXS
 Ultrapure Technology
 VWR Intl LLC
 WL Gore & Assocs,
 Gore PharmBIO
 Products

GLOVES, REUSABLE

Ansell Protective
 Products,
 Occupational
 Healthcare Div
 Blue Thunder
 Technologies
 Connecticut Clean
 Room Corp
 General Lab &
 Cleanroom Supply,
 dba General Lab
 Supply
 Hutchins & Hutchins,
 Cleanroom Equipment
 / Supply Distributor
 Jenessco Industries
 Liberty Industries
 QRP Gloves
 Renco Corp
 STAXS
 Ultrapure Technology
 UniClean,
 Div Unifirst Corp
 VWR Intl LLC

GLOVES, STERILE

ACM, Advanced
 Cleanroom Microclean
 Ansell Protective
 Products,
 Occupational
 Healthcare Div
 Benchmark Products
 Blue Thunder
 Technologies
 Cintas, Cleanroom Div
 Connecticut Clean
 Room Corp
 General Lab &
 Cleanroom Supply,
 dba General Lab
 Supply
 Hutchins & Hutchins,
 Cleanroom Equipment
 / Supply Distributor
 QRP Gloves
 Renco Corp
 Shoe Inn
 STAXS
 Ultrapure Technology
 UniClean,
 Div Unifirst Corp
 VWR Intl LLC

GLOVES, VINYL

ACM, Advanced
 Cleanroom Microclean
 Ansell Protective
 Products,
 Occupational
 Healthcare Div
 Benchmark Products

Blue Thunder
 Technologies
 Connecticut Clean
 Room Corp
 Flanders Corp,
 Containment Products
 General Lab &
 Cleanroom Supply,
 dba General Lab
 Supply
 Hutchins & Hutchins,
 Cleanroom Equipment
 / Supply Distributor
 Liberty Industries
 QRP Gloves
 Renco Corp
 Shoe Inn
 STAXS
 Ultrapure Technology
 VWR Intl LLC

GOGGLES

Bel-Art Products
 Benchmark Products
 Blue Thunder
 Technologies
 Cintas, Cleanroom Div
 Cole-Parmer
 Connecticut Clean
 Room Corp
 Edgeco
 General Lab &
 Cleanroom Supply,
 dba General Lab
 Supply
 Hutchins & Hutchins,
 Cleanroom Equipment
 / Supply Distributor
 Liberty Industries
 STAXS
 Ultrapure Technology
 VWR Intl LLC

**HAND CLEANING
 SYSTEMS**

Blue Thunder
 Technologies
 Connecticut Clean
 Room Corp
 Decon Labs
 General Lab &
 Cleanroom Supply,
 dba General Lab
 Supply
 Liberty Industries
 Meritech
 Pall Life Sciences,
 Biopharmaceuticals
 Ultrapure Technology
 VWR Intl LLC

**HAND
 CONDITIONERS**

Benchmark Products
 Blue Thunder
 Technologies
 Connecticut Clean
 Room Corp
 Decon Labs
 General Lab &
 Cleanroom Supply,
 dba General Lab
 Supply
 Liberty Industries
 Ultrapure Technology
 VWR Intl LLC

HAND DRYERS

Benchmark Products
 Connecticut Clean
 Room Corp
 Edgeco
 Liberty Industries
 Meritech
 VWR Intl LLC

**HAND PROTECTION
 AGENTS**

Connecticut Clean
 Room Corp
 Decon Labs

For vendor contact information, see Company Directory section.

Liberty Industries
STAXS
VWR Intl LLC

HAND SOAP

ACM, Advanced
Cleanroom Microclean
Connecticut Clean
Room Corp
Contec
Decon Labs
General Lab &
Cleanroom Supply,
dba General Lab
Supply
Liberty Industries
Meritech
STAXS
VWR Intl LLC

HAND TOOLS, AUTOCLAVABLE

ASG, Jergens
Benchmark Products
General Lab &
Cleanroom Supply,
dba General Lab
Supply
Hutchins & Hutchins,
Cleanroom Equipment
/ Supply Distributor
Perflex Corp
STAXS
VWR Intl LLC

HIGH POTENCY MATERIAL HANDLING EQUIPMENT

3V TECH USA
Central Research Labs
Custom Powder
Systems. The
Containment Co
EHS Solutions LLC
F.P.S. Food and Pharma
Systems srl
Integrated Containment
Systems
Nicos Group
Optima Machinery Corp

HOODS, DISPOSABLE

ACM, Advanced
Cleanroom Microclean
Benchmark Products
Blue Thunder
Technologies
Cintas, Cleanroom Div
Connecticut Clean
Room Corp
General Econopak
General Lab &
Cleanroom Supply,
dba General Lab
Supply
Hutchins & Hutchins,
Cleanroom Equipment
/ Supply Distributor
Liberty Industries
STAXS
Ultrapure Technology
UniClean,
Div Unifirst Corp
Veltek Assocs
VWR Intl LLC

HOODS, EYES ONLY

ACM, Advanced
Cleanroom Microclean
Blue Thunder
Technologies
Cintas, Cleanroom Div
Connecticut Clean
Room Corp
Euclid Vidaro Mfg Co
General Econopak
General Lab &
Cleanroom Supply,
dba General Lab
Supply

Hutchins & Hutchins,
Cleanroom Equipment
/ Supply Distributor
Liberty Industries
STAXS
Ultrapure Technology
VWR Intl LLC
Worklon

HOODS, FILTERED-AIR

AES Clean Technology
Air Purifiers
AirClean Systems
Blue Thunder
Technologies
Clean Air Technologies
O/A Eurovac
CleanZones LLC
Connecticut Clean
Room Corp
Flanders Corp,
Containment Products
HEMCO Corp
International
Portland Corp
Isolation Systems
Kewaunee
Scientific Corp
Liberty Industries
LM Air Technology,
Cleanroom & Lab
Equipment
STAXS
The Baker Co
Ultrapure Technology
VWR Intl LLC

HOODS, OPEN-FACE

ACM, Advanced
Cleanroom Microclean
Benchmark Products
Blue Thunder
Technologies
Cintas, Cleanroom Div
Connecticut Clean
Room Corp
Euclid Vidaro Mfg Co
General Econopak
General Lab &
Cleanroom Supply,
dba General Lab
Supply
Hutchins & Hutchins,
Cleanroom Equipment
/ Supply Distributor
Isolation Systems
Liberty Industries
STAXS
Ultrapure Technology
Veltek Assocs
VWR Intl LLC
Worklon

HOODS, REUSABLE

Blue Thunder
Technologies
Cintas, Cleanroom Div
Connecticut Clean
Room Corp
Euclid Vidaro Mfg Co
General Lab &
Cleanroom Supply,
dba General Lab
Supply
HEMCO Corp
Hutchins & Hutchins,
Cleanroom Equipment
/ Supply Distributor
Liberty Industries
STAXS
Ultrapure Technology
UniClean,
Div Unifirst Corp
VWR Intl LLC
Worklon

HOODS, STERILE

ACM, Advanced
Cleanroom Microclean
AirClean Systems
AWS Bio-Pharma
Technologies

Benchmark Products
Blue Thunder
Technologies
Cintas, Cleanroom Div
Connecticut Clean
Room Corp
General Econopak
General Lab &
Cleanroom Supply,
dba General Lab
Supply
Hutchins & Hutchins,
Cleanroom Equipment
/ Supply Distributor
International
Portland Corp
Isolation Systems
Liberty Industries
Process Tek
STAXS
The Baker Co
Ultrapure Technology
UniClean,
Div Unifirst Corp
Veltek Assocs
VWR Intl LLC

HUMIDITY CONTROL SYSTEMS

AES Clean Technology
Carel USA LLC
Condair plc
CS Assocs
Dristeem
Halco Products Co, Div
Hale Engineering Co
Isolation Systems
Munters Corp
Rotronic
Siemens Building
Technologies
Thunder Scientific Corp
Vaisala

HVAC SYSTEM DESIGN SERVICES

AdvanceTEC
AES Clean Technology
Angstrom Technology,
Marketing
Carel USA LLC
Condair plc
CS Assocs
Fab-Tech
Flanders Corp,
Containment Products
Halco Products Co, Div
Hale Engineering Co
Isolation Systems
MultiTherm LLC
Siemens Building
Technologies
Technovation Systems
Telstar North America
Ultrapure Technology
Westfield Sheet
Metal Works

HVAC SYSTEMS

3V TECH USA
AdvanceTEC
AES Clean Technology
Angstrom Technology,
Marketing
AWS Bio-Pharma
Technologies
Buffalo Air Handling
Carel USA LLC
CleanZones LLC
Condair plc
CS Assocs
Dristeem
Fab-Tech
Flanders Corp,
Containment Products
Halco Products Co, Div
Hale Engineering Co
Hutchins & Hutchins,
Cleanroom Equipment
/ Supply Distributor
Isolation Systems
MultiTherm LLC
Munters Corp

Siemens Building
Technologies
Telstar North America
Ultrapure Technology
Westfield Sheet
Metal Works

INCUBATORS

Bahnson Environmental
Specialties, An
EMCOR Co
CARON Products
Services
Cole-Parmer
General Lab &
Cleanroom Supply,
dba General Lab
Supply
Harris Environmental
Systems
Powers Scientific
VWR Intl LLC

INSPECTION DEVICES

AC Compacting LLC
Driam USA
Fortress Technology
Kaps-All Packaging
Systems
Lenox Instrument Co
Micro Measurement
Labs
MNEMONICS
Siemens Building
Technologies
Siemens Process
Industries + Drives
Victor Intl Mktg
VWR Intl LLC

INTERCOMS

Halco Products Co, Div
Hale Engineering Co
Liberty Industries

ISO CLASS 1

ACM, Advanced
Cleanroom Microclean
AdvanceTEC
Angstrom Technology,
Marketing
Blue Thunder
Technologies
Clean Air Products
Gerbig Engineering
Halco Products Co, Div
Hale Engineering Co
Hutchins & Hutchins,
Cleanroom Equipment
/ Supply Distributor
Isolation Systems
ITW Texwipe
Labconco Corp
Liberty Industries

ISO CLASS 2

ACM, Advanced
Cleanroom Microclean
AdvanceTEC
Blue Thunder
Technologies
Clean Air Products
Halco Products Co, Div
Hale Engineering Co
Hutchins & Hutchins,
Cleanroom Equipment
/ Supply Distributor
Isolation Systems
ITW Texwipe
Liberty Industries

ISO CLASS 3 (FORMERLY M1.5 OR CLASS 1)

ACM, Advanced
Cleanroom Microclean
AdvanceTEC
Angstrom Technology,
Marketing
Blue Thunder
Technologies
Cintas, Cleanroom Div

Clean Air Products
Gerbig Engineering
Halco Products Co, Div
Hale Engineering Co
Hutchins & Hutchins,
Cleanroom Equipment
/ Supply Distributor
Isolation Systems
ITW Texwipe
Laminar Flow
Liberty Industries
STAXS
Technovation Systems
Telstar North America
UniClean,
Div Unifirst Corp

ISO CLASS 4 (FORMERLY M2.5 OR CLASS 10)

ACM, Advanced
Cleanroom Microclean
AdvanceTEC
AES Clean Technology
Angstrom Technology,
Marketing
Bahnson Environmental
Specialties, An
EMCOR Co
Blue Thunder
Technologies
Clean Air Products
Clean Rooms Intl
CleanZones LLC
CS Assocs
Gerbig Engineering
Halco Products Co, Div
Hale Engineering Co
Hutchins & Hutchins,
Cleanroom Equipment
/ Supply Distributor
ISO Tech Design
Isolation Systems
ITW Texwipe
Laminar Flow
Liberty Industries
LM Air Technology,
Cleanroom & Lab
Equipment
Nicos Group
Simplex Isolation
Systems, TMI
International LLC
STAXS
Technovation Systems
Telstar North America

ISO CLASS 5 (FORMERLY M3.5 OR CLASS 100)

ACM, Advanced
Cleanroom Microclean
AdvanceTEC
AES Clean Technology
AirClean Systems
Blue Thunder
Technologies
Clean Air Products
Clean Rooms Intl
CleanZones LLC
CS Assocs
ESCO Technologies
Gerbig Engineering
Halco Products Co, Div
Hale Engineering Co
HEMCO Corp
Hutchins & Hutchins,
Cleanroom Equipment
/ Supply Distributor
ISO Tech Design
Isolation Systems
ITW Texwipe
Laminar Flow
Liberty Industries
LM Air Technology,
Cleanroom & Lab
Equipment
Nicos Group
Simplex Isolation
Systems, TMI
International LLC
STAXS
Technovation Systems
Telstar North America

ISO CLASS 6 (FORMERLY M4.5 OR CLASS 1,000)

ACM, Advanced
Cleanroom Microclean
AdvanceTEC
AES Clean Technology
Angstrom Technology,
Marketing
Bahnson Environmental
Specialties, An
EMCOR Co
Blue Thunder
Technologies
Clean Air Products
Clean Rooms Intl
CleanZones LLC
CS Assocs
F.P.S. Food and Pharma
Systems srl
Gerbig Engineering
Halco Products Co, Div
Hale Engineering Co
HEMCO Corp
Hutchins & Hutchins,
Cleanroom Equipment
/ Supply Distributor
ISO Tech Design
Isolation Systems
ITW Texwipe
Laminar Flow
Liberty Industries
LM Air Technology,
Cleanroom & Lab
Equipment
Nicos Group
Simplex Isolation
Systems, TMI
International LLC
STAXS
Technovation Systems
Telstar North America

ISO CLASS 6 (FORMERLY M4.5 OR CLASS 1,000)

ACM, Advanced
Cleanroom Microclean
AdvanceTEC
AES Clean Technology
Angstrom Technology,
Marketing
Bahnson Environmental
Specialties, An
EMCOR Co
Blue Thunder
Technologies
Clean Air Products
Clean Rooms Intl
CleanZones LLC
CS Assocs
F.P.S. Food and Pharma
Systems srl
Gerbig Engineering
Halco Products Co, Div
Hale Engineering Co
HEMCO Corp
Hutchins & Hutchins,
Cleanroom Equipment
/ Supply Distributor
ISO Tech Design
Isolation Systems
ITW Texwipe
Laminar Flow
Liberty Industries
LM Air Technology,
Cleanroom & Lab
Equipment
Nicos Group
Simplex Isolation
Systems, TMI
International LLC
STAXS
Technovation Systems
Telstar North America

ISO CLASS 7 (FORMERLY M5.5 OR CLASS 10,000)

ACM, Advanced
Cleanroom Microclean
AdvanceTEC
AES Clean Technology
Angstrom Technology,
Marketing
Bahnson Environmental
Specialties, An
EMCOR Co
Blue Thunder
Technologies
Clean Air Products
Clean Rooms Intl
CleanZones LLC
CS Assocs
F.P.S. Food and Pharma
Systems srl
Gerbig Engineering
Halco Products Co, Div
Hale Engineering Co
HEMCO Corp
Hutchins & Hutchins,
Cleanroom Equipment
/ Supply Distributor
ISO Tech Design
Isolation Systems
ITW Texwipe
Laminar Flow
Liberty Industries
LM Air Technology,
Cleanroom & Lab
Equipment
Nicos Group
Simplex Isolation
Systems, TMI
International LLC
STAXS
Technovation Systems
Telstar North America

ISO CLASS 8 (FORMERLY M6.5 OR CLASS 100,000)

ACM, Advanced
Cleanroom Microclean
AdvanceTEC
AES Clean Technology

Angstrom Technology, Marketing
 Bahnsen Environmental Specialties, An EMCOR Co
 Blue Thunder Technologies
 Clean Air Products
 Clean Rooms Intl
 CleanZones LLC
 CS Assocs
 forteq Nidau AG
 Gerbig Engineering
 Halco Products Co, Div
 Hale Engineering Co
 Hutchins & Hutchins, Cleanroom Equipment / Supply Distributor
 ISO Tech Design
 Isolation Systems
 ITW Texwipe
 Laminar Flow
 Liberty Industries
 LM Air Technology, Cleanroom & Lab Equipment
 Nicos Group
 Simplex Isolation Systems, TMI International LLC
 STAXS
 Technovation Systems
 Telstar North America

ISOLATORS, AUTOMATED ASEPTIC VIAL FILLING

ESCO Technologies
 Extract Technology
 F.P.S. Food and Pharma Systems srl
 Flanders Corp, Containment Products
 Gething USA, Life Science
 ISO Tech Design
 Key Intl
 Liberty Industries
 MagneMotion
 Optima Machinery Corp
 Siemens Process Industries + Drives
 STAXS
 Telstar North America

JANITORIAL SERVICES

ACM, Advanced Cleanroom Microclean
 Ultrapure Technology
 UniClean, Div Unifirst Corp

LAB COATS, DISPOSABLE

ACM, Advanced Cleanroom Microclean
 Benchmark Products
 Blue Thunder Technologies
 Cintas, Cleanroom Div
 Connecticut Clean Room Corp
 Edgeco
 ERE
 General Econopak
 General Lab & Cleanroom Supply, dba General Lab Supply
 Hutchins & Hutchins, Cleanroom Equipment / Supply Distributor
 Liberty Industries
 Shoe Inn
 STAXS
 Ultrapure Technology
 UniClean, Div Unifirst Corp
Veltek Assocs
 VWR Intl LLC

LAB COATS, REUSABLE

ACM, Advanced Cleanroom Microclean
 Blue Thunder Technologies
 Cintas, Cleanroom Div
 Connecticut Clean Room Corp
 ERE
 Euclid Vidaro Mfg Co
 General Econopak
 General Lab & Cleanroom Supply, dba General Lab Supply
 Hutchins & Hutchins, Cleanroom Equipment / Supply Distributor
 Liberty Industries
 STAXS
 Ultrapure Technology
 UniClean, Div Unifirst Corp
 VWR Intl LLC
 Worklon

LAB COATS, STERILE

ACM, Advanced Cleanroom Microclean
 Benchmark Products
 Blue Thunder Technologies
 Cintas, Cleanroom Div
 Connecticut Clean Room Corp
 General Econopak
 General Lab & Cleanroom Supply, dba General Lab Supply
 Hutchins & Hutchins, Cleanroom Equipment / Supply Distributor
 Liberty Industries
 STAXS
 Ultrapure Technology
 UniClean, Div Unifirst Corp
Veltek Assocs
 VWR Intl LLC

LAMINAR-FLOW UNITS, HORIZONTAL

AdvanceTEC
 AES Clean Technology
 AirClean Systems
 Angstrom Technology, Marketing
 AWS Bio-Pharma Technologies
 Benchmark Products
 Clean Air Products
 Clean Rooms Intl
 CleanZones LLC
 Connecticut Clean Room Corp
 CS Assocs
 Custom Powder Systems, The Containment Co
 ESCO Technologies
 F.P.S. Food and Pharma Systems srl
 Flanders Corp, Containment Products
 Flow Sciences
 General Lab & Cleanroom Supply, dba General Lab Supply
 Gerbig Engineering
 groninger USA LLC, Marketing
 Halco Products Co, Div
 Hale Engineering Co
 Hosokawa Micron Powder Systems
 Hutchins & Hutchins, Cleanroom Equipment / Supply Distributor
 International
 Portland Corp
 ISO Tech Design
 Isolation Systems
 Kewaunee
 Scientific Corp
 Labconco Corp
 Laminar Flow
 Liberty Industries
 LM Air Technology, Cleanroom & Lab Equipment
 OPTIMA pharma GmbH
 Sierra Instruments
 Simplex Isolation Systems, TMI International LLC
 Technovation Systems
 Telstar North America
 The Baker Co
 Ultrapure Technology
 VWR Intl LLC

International
 Portland Corp
 Isolation Systems
 Labconco Corp
 Laminar Flow
 Liberty Industries
 LM Air Technology, Cleanroom & Lab Equipment
 OPTIMA pharma GmbH
 Simplex Isolation Systems, TMI International LLC
 Telstar North America
 The Baker Co
 Ultrapure Technology
 VWR Intl LLC

LAMINAR-FLOW UNITS, VERTICAL

AdvanceTEC
 AES Clean Technology
 AirClean Systems
 Angstrom Technology, Marketing
 AWS Bio-Pharma Technologies
 Clean Air Products
 Clean Rooms Intl
 CleanZones LLC
 Connecticut Clean Room Corp
 CS Assocs
 Custom Powder Systems, The Containment Co
 ESCO Technologies
 F.P.S. Food and Pharma Systems srl
 Flanders Corp, Containment Products
 Flow Sciences
 General Lab & Cleanroom Supply, dba General Lab Supply
 Gerbig Engineering
 groninger USA LLC, Marketing
 Halco Products Co, Div
 Hale Engineering Co
 Hosokawa Micron Powder Systems
 Hutchins & Hutchins, Cleanroom Equipment / Supply Distributor
 International
 Portland Corp
 ISO Tech Design
 Isolation Systems
 Kewaunee
 Scientific Corp
 Labconco Corp
 Laminar Flow
 Liberty Industries
 LM Air Technology, Cleanroom & Lab Equipment
 OPTIMA pharma GmbH
 Sierra Instruments
 Simplex Isolation Systems, TMI International LLC
 Technovation Systems
 Telstar North America
 The Baker Co
 Ultrapure Technology
 VWR Intl LLC

LAMINAR-FLOW WORKSTATIONS

AdvanceTEC
 AES Clean Technology
 AirClean Systems
 Angstrom Technology, Marketing
 Benchmark Products
 Clean Air Products
 Clean Rooms Intl
 CleanZones LLC
 Connecticut Clean Room Corp
 CS Assocs

Custom Powder Systems, The Containment Co
 ESCO Technologies
 F.P.S. Food and Pharma Systems srl
 Flanders Corp, Containment Products
 Flow Sciences
 General Lab & Cleanroom Supply, dba General Lab Supply
 Gerbig Engineering
 Halco Products Co, Div
 Hale Engineering Co
 HEMCO Corp
 International
 Portland Corp
 ISO Tech Design
 Isolation Systems
 Kewaunee
 Scientific Corp
 Labconco Corp
 Laminar Flow
 Liberty Industries
 LM Air Technology, Cleanroom & Lab Equipment
 Simplex Isolation Systems, TMI International LLC
 Technovation Systems
 Telstar North America
 The Baker Co
 Ultrapure Technology
 VWR Intl LLC

LAMINAR-FLOW WORKSTATIONS, PORTABLE

AES Clean Technology
 AirClean Systems
 Angstrom Technology, Marketing
 Benchmark Products
 Clean Air Products
 Clean Rooms Intl
 CleanZones LLC
 Connecticut Clean Room Corp
 CS Assocs
 ESCO Technologies
 Flanders Corp, Containment Products
 Flow Sciences
 General Lab & Cleanroom Supply, dba General Lab Supply
 Gerbig Engineering
 HEMCO Corp
 International
 Portland Corp
 ISO Tech Design
 Isolation Systems
 Labconco Corp
 Laminar Flow
 Liberty Industries
 LM Air Technology, Cleanroom & Lab Equipment
 Process Tek
 Simplex Isolation Systems, TMI International LLC
 Technovation Systems
 Telstar North America
 The Baker Co
 Ultrapure Technology
 VWR Intl LLC

LAMPS, UV

Blue Thunder Technologies
 Edgeco
 General Lab & Cleanroom Supply, dba General Lab Supply
 Isolation Systems
 Liberty Industries
 Q-Lab Corp
 VWR Intl LLC

LAUNDRY EQUIPMENT

Edgeco
 Nicholson Steam Trap, Div
 Circor Intl
 Technovation Systems

LAUNDRY SERVICES

STAXS
 UniClean, Div Unifirst Corp

LEAK DETECTORS

Airgas
 AWS Bio-Pharma Technologies
 E Instruments Intl
 ENMET
 Isolation Systems
 LEYBOLD
 Mil-Ram Technology
 Pfeiffer Vacuum
 Process Tek
 Restek Corp
 Rockwell Automation
 Rommelag USA
 Seidenader Equipment
 Siemens Process Industries + Drives
 Sierra Instruments
 Victor Intl Mktg

LIGHTING

AES Clean Technology
 Andax Industries LLC
 Angstrom Technology, Marketing
 Clean Rooms Intl
 CS Assocs
 Halco Products Co, Div
 Hale Engineering Co
 HEMCO Corp
 Hutchins & Hutchins, Cleanroom Equipment / Supply Distributor
 Isolation Systems
 Liberty Industries
 Los Angeles Lighting Mfg Co
 Paramount Industries
 Ultrapure Technology

LOCKERS

Edgeco
 General Lab & Cleanroom Supply, dba General Lab Supply
 Laminar Flow
 Liberty Industries
 Remcon Plastics
 Ultrapure Technology
 VWR Intl LLC
 Wirecrafters LLC

MAINTENANCE SERVICES

ACM, Advanced Cleanroom Microclean
 ATAGO USA
 AWS Bio-Pharma Technologies
 E Instruments Intl
 Siemens Process Industries + Drives
 Tri Tool

MARKERS

Liberty Industries
 STAXS
Veltek Assocs
 VWR Intl LLC

MATERIAL HANDLING EQUIPMENT

Blue Thunder Technologies
 Central Research Labs
 De Dietrich Process Systems
 Edgeco
 EHS Solutions LLC

Erich Industries
 Excalibur Miretti Group LLC
 Fab-Tech
 Fenner Drives
 Fibergrate Composite Structures
 Garvey Corp
 GE A Process Engineering, GE A Pharma Systems
 HEMCO Corp
 Hurst Corp
 Hutchins & Hutchins, Cleanroom Equipment / Supply Distributor
 Integrated Containment Systems
 InterMetro Industries Corp
 Interthor
 Isolation Systems
 Justrite Mfg Co
 Lista Intl Corp
 MagneMotion
 Material Transfer & Storage
 Molded Fiber Glass Tray Co
 Nergoco Entrematic, Entrematic HPD
 New England Machinery R on I
 Remcon Plastics
 Seal Master Corp
 Servolift
 Siemens Process Industries + Drives
 UniTech Industries
 VWR Intl LLC
 Wirecrafters LLC
 Zed Industries

MATS, ADHESIVE, DISPOSABLE

ACM, Advanced Cleanroom Microclean
 Benchmark Products
 Blue Thunder Technologies
 Cintas, Cleanroom Div
 Connecticut Clean Room Corp
 General Lab & Cleanroom Supply, dba General Lab Supply
 Hutchins & Hutchins, Cleanroom Equipment / Supply Distributor
 ITW ALMA
 ITW Texwipe
 Liberty Industries
 Renco Corp
 Shoe Inn
 STAXS
 Ultrapure Technology
 VWR Intl LLC

MATS, ADHESIVE, PERMANENT

Connecticut Clean Room Corp
 Dycem
 Liberty Industries
 Shoe Inn
 STAXS
 Ultrapure Technology
 VWR Intl LLC

MATS, FOAM

Benchmark Products
 Blue Thunder Technologies
 Connecticut Clean Room Corp
 Dycem
 General Lab & Cleanroom Supply, dba General Lab Supply
 Hutchins & Hutchins, Cleanroom Equipment / Supply Distributor

For vendor contact information, see Company Directory section.

Liberty Industries
Ultrapure Technology
VWR Intl LLC

MECHANICAL DESIGN SERVICES

A&B Process Systems Corp, JBT Corporation
AdvanceTEC
AES Clean Technology
Chemical Transfer Partnership Corp, (CTP Corp)
Fab-Tech
Mendel Co
MultiTherm LLC
Seal Master Corp
Technovation Systems
Viega LLC

METERS, AIRFLOW

Atlantic Scale Co
Hampshire Controls Corp
Hoffer Flow Controls
Hutchins & Hutchins, Cleanroom Equipment / Supply Distributor
Isolation Systems
Kanomax USA
Krohne
Liberty Industries
Sierra Instruments
Status Instruments
Testo
Ultrapure Technology
VWR Intl LLC

METERS, HUMIDITY

Atlantic Scale Co
E Instruments Intl
General Lab & Cleanroom Supply, dba General Lab Supply
Isolation Systems
Liberty Industries
Sensitech
Siemens Building Technologies
Status Instruments
Testo
Two Dimensional Instruments
Ultrapure Technology
Vaisala
VWR Intl LLC

METERS, TEMPERATURE

Atlantic Scale Co
General Lab & Cleanroom Supply, dba General Lab Supply
Hampshire Controls Corp
Isolation Systems
Liberty Industries
Pyromation
Sensitech
Siemens Building Technologies
Status Instruments
Testo
Two Dimensional Instruments
Ultrapure Technology
Vaisala
VWR Intl LLC
WIKA Instrument Corp

MICROBIAL SAMPLERS

ACM, Advanced Cleanroom Microclean
BD Diagnostics
Biotech Diagnostics Corp
Climet Instruments Co

General Lab & Cleanroom Supply, dba General Lab Supply
Hampshire Controls Corp
Ultrapure Technology
Veltek Assocs
VWR Intl LLC

MICROSCOPE EQUIPMENT

Bel-Art Products
Bioindustrial Products
Blue Thunder Technologies
General Lab & Cleanroom Supply, dba General Lab Supply
Hirox - USA
VWR Intl LLC

MICROSCOPES

Blue Thunder Technologies
Cole-Parmer
ERE
General Lab & Cleanroom Supply, dba General Lab Supply
Hirox - USA
VWR Intl LLC

MINI ENVIRONMENTS

AAF Flanders
AdvanceTEC
Clean Rooms Intl
CleanZones LLC
General Lab & Cleanroom Supply, dba General Lab Supply
Gerbig Engineering
Halco Products Co, Div Hale Engineering Co
International
Portland Corp
Isolation Systems
Liberty Industries
LM Air Technology, Cleanroom & Lab Equipment
Powers Scientific
Process Tek
Simplex Isolation Systems, TMI
International LLC
STAXS
The Baker Co
TRAX Industrial Curtains
Ultrapure Technology

MOBILE CLEAN ROOMS

AES Clean Technology
AWS Bio-Pharma Technologies
Benchmark Products
Extract Technology
HEMCO Corp
Laminar Flow

MOBILE ROOMS

Clean Rooms Intl
CS Assocs
General Lab & Cleanroom Supply, dba General Lab Supply
Gerbig Engineering
Halco Products Co, Div Hale Engineering Co
HEMCO Corp
Isolation Systems
Laminar Flow
Liberty Industries
LM Air Technology, Cleanroom & Lab Equipment

Nicos Group
Process Tek
Simplex Isolation Systems, TMI
International LLC
Telstar North America
TRS Containers
Ultrapure Technology
Xcellerex

MODULAR ROOMS

A&B Process Systems Corp, JBT Corporation
AdvanceTEC
AES Clean Technology
Angstrom Technology, Marketing
AWS Bio-Pharma Technologies
Benchmark Products
BIOQUELL, Life Sciences
Clean Rooms Intl
CleanZones LLC
CS Assocs
Florida Cleanroom Systems
General Lab & Cleanroom Supply, dba General Lab Supply
Gerbig Engineering
Halco Products Co, Div Hale Engineering Co
Harris Environmental Systems
HEMCO Corp
Isolation Systems
Laminar Flow
Liberty Industries
LM Air Technology, Cleanroom & Lab Equipment
Nicos Group
Simplex Isolation Systems, TMI
International LLC
Technovation Systems
Telstar North America
TRAX Industrial Curtains
TRS Containers
Ultrapure Technology
Xcellerex

MOPS

ACM, Advanced Cleanroom Microclean
Angstrom Supply
Blue Thunder Technologies
Connecticut Clean Room Corp
Contec
Dycem
General Lab & Cleanroom Supply, dba General Lab Supply
Hutchins & Hutchins, Cleanroom Equipment / Supply Distributor
ITW Texwipe
Liberty Industries
Perflex Corp
STAXS
Ultrapure Technology
Veltek Assocs
VWR Intl LLC

NOTEBOOKS

ACM, Advanced Cleanroom Microclean
Benchmark Products
Blue Thunder Technologies
Connecticut Clean Room Corp
Contec
General Lab & Cleanroom Supply, dba General Lab Supply
Georgia-Pacific Corp

ITW Texwipe
Liberty Industries
STAXS
Ultrapure Technology
Veltek Assocs
VWR Intl LLC

OVEN

Despatch - ITW EAE
General Lab & Cleanroom Supply, dba General Lab Supply
Milestone
Nicos Group
The Grieve Corp
VWR Intl LLC
Liberty Industries
Werner Mathis USA, North America

PADS, PRESATURATED

Blue Thunder Technologies
General Lab & Cleanroom Supply, dba General Lab Supply
Liberty Industries
Lymtech Scientific
STAXS
VWR Intl LLC

PADS, SPILL-CONTROL

ACM, Advanced Cleanroom Microclean
Blue Thunder Technologies
Contec
Edgeco
General Econopak
STAXS
VWR Intl LLC

PAPER, COMPUTER

Angstrom Supply
Blue Thunder Technologies
Connecticut Clean Room Corp
General Lab & Cleanroom Supply, dba General Lab Supply
Georgia-Pacific Corp
ITW Texwipe
Liberty Industries
STAXS
Ultrapure Technology
Veltek Assocs
VWR Intl LLC

PAPER, COPIER

Angstrom Supply
Blue Thunder Technologies
Connecticut Clean Room Corp
General Lab & Cleanroom Supply, dba General Lab Supply
Georgia-Pacific Corp
ITW Texwipe
Liberty Industries
Lymtech Scientific
STAXS
Ultrapure Technology
VWR Intl LLC

PAPER, GRAPH

Benchmark Products
Blue Thunder Technologies
Connecticut Clean Room Corp
General Lab & Cleanroom Supply, dba General Lab Supply
Georgia-Pacific Corp

Liberty Industries
STAXS
Ultrapure Technology
Veltek Assocs
VWR Intl LLC

PAPER, RECORDER

Blue Thunder Technologies
Carltext
Connecticut Clean Room Corp
General Lab & Cleanroom Supply, dba General Lab Supply
Georgia-Pacific Corp
Liberty Industries
STAXS
Ultrapure Technology
VWR Intl LLC

PAPER, WRITING

Benchmark Products
Blue Thunder Technologies
Connecticut Clean Room Corp
Contec
General Lab & Cleanroom Supply, dba General Lab Supply
Georgia-Pacific Corp
ITW Texwipe
Liberty Industries
STAXS
Ultrapure Technology
Veltek Assocs
VWR Intl LLC

PARTICLE COUNTERS, AIR AND GAS

Angstrom Technology, Marketing
Biotech Diagnostics Corp
Blue Thunder Technologies
Climet Instruments Co
EquipNet
Fluid Imaging Technologies
General Lab & Cleanroom Supply, dba General Lab Supply
Hutchins & Hutchins, Cleanroom Equipment / Supply Distributor
Kanomax USA
Liberty Industries
Ultrapure Technology
VWR Intl LLC

PARTICLE COUNTERS, LIQUID

Benchmark Products
Blue Thunder Technologies
Fluid Imaging Technologies
Micro Measurement Labs
Micromeritics Instrument Corp
Ultrapure Technology
VWR Intl LLC

PARTICLE SIZE CLASSIFIERS

Blue Thunder Technologies
Fluid Imaging Technologies
Glen Mills
Hosokawa Micron Powder Systems
Micromeritics Instrument Corp
Minox/Elean
VWR Intl LLC

PASS-THROUGHS

AES Clean Technology
Angstrom Technology, Marketing
Bahnsen Environmental Specialties, An EMCOR Co
Benchmark Products
BIOQUELL, Life Sciences
Central Research Labs
Clean Rooms Intl
CleanZones LLC
Connecticut Clean Room Corp
F.P.S. Food and Pharma Systems srl
Gerbig Engineering
Halco Products Co, Div Hale Engineering Co
Hutchins & Hutchins, Cleanroom Equipment / Supply Distributor
Isolation Systems
Kemutec
Liberty Industries
LM Air Technology, Cleanroom & Lab Equipment
Powers Scientific
Simplex Isolation Systems, TMI
International LLC
Telstar North America
The Baker Co
Ultrapure Technology
VWR Intl LLC

PENS

Angstrom Supply
Bel-Art Products
Benchmark Products
Blue Thunder Technologies
Connecticut Clean Room Corp
General Lab & Cleanroom Supply, dba General Lab Supply
Hutchins & Hutchins, Cleanroom Equipment / Supply Distributor
Liberty Industries
STAXS
Ultrapure Technology
Veltek Assocs
VWR Intl LLC

PIPING

A&B Process Systems Corp, JBT Corporation
Asahi/America
Bergen Industrial Supply Co
CS Assocs
GMP Systems
United Industries
Viega LLC

PIPING SUPPORTS

A&B Process Systems Corp, JBT Corporation
Bergen Industrial Supply Co
CS Assocs
GMP Systems
Ryan Herco Flow Solutions
Viega LLC

POWER SUPPLIES

VWR Intl LLC

PREFABRICATED ROOMS

AES Clean Technology
AWS Bio-Pharma Technologies
Clean Rooms Intl
CleanZones LLC
CS Assocs
FabOhio

Halco Products Co, Div
Hale Engineering Co
Harris Environmental
Systems
Hutchins & Hutchins,
Cleanroom Equipment
/ Supply Distributor
Isolation Systems
Liberty Industries
LM Air Technology,
Cleanroom & Lab
Equipment
Simplex Isolation
Systems, TMI
International LLC
Telstar North America
TRS Containers
VWR Intl LLC

PREFILTERS

AirClean Systems
Angstrom Supply
Clean Rooms Intl
CleanZones LLC
CS Assocs
Flanders Corp,
Containment Products
GMP Systems
Hutchins & Hutchins,
Cleanroom Equipment
/ Supply Distributor
Isolation Systems
Liberty Industries
LM Air Technology,
Cleanroom & Lab
Equipment
Pall Life Sciences,
Biopharmaceuticals
Plymovent NA
Status Instruments
Ultrapure Technology

PRESSURE GAUGES

Ashcroft
CleanZones LLC
Cole-Parmer
CS Assocs
First Sensor
GE Sensing &
Inspection
Technologies
GMP Systems
Integrated Gas Services
Isolation Systems
Siemens Building
Technologies
Siemens Process
Industries + Drives
Spirax Sarco
Top Line Process
Equipment Co
Two Dimensional
Instruments
WIKA Instrument Corp

PRINTED FORMS

Connecticut Clean
Room Corp
Georgia-Pacific Corp
Liberty Industries
VWR Intl LLC

PRINTING

Connecticut Clean
Room Corp
Greydon
Matthews Intl Corp,
Matthews Marking
Systems

Veltek Assocs

PUMPS

Bel-Art Products
Cole-Parmer
Fluid Metering
GMP Systems
GoatThroat Pumps,
Pumps & Systems
Goulds Pumps, ITT
Corp
Intellitech
IVEK Corp
LEYBOLD

Met - Pro Global Pump
Solutions - Fybroc
Met-Pro Global Pump
Solutions - Sethco
Tuthill Vacuum Blower
Systems
Vanton Pump &
Equipment Corp
VWR Intl LLC

**RECORDERS,
TEMPERATURE AND
HUMIDITY**

ACR Systems
Carel USA LLC
Carltext
Honeywell, Industrial
Measurement &
Controls Div
Isolation Systems
Liberty Industries
Mesa Labs, Cold Chain
Process Tek
Rotronic
Sensitech
Siemens Building
Technologies
Siemens Process
Industries + Drives
Testo
Thunder Scientific Corp
Two Dimensional
Instruments
Vaisala
VWR Intl LLC
Yokogawa Corp
of America

REFRIGERATORS

Bahnson Environmental
Specialties, An
EMCOR Co
CARON Products
Services
General Lab &
Cleanroom Supply,
dba General Lab
Supply
Powers Scientific
VWR Intl LLC

RETROFIT SERVICES

3V TECH USA
AdvanceTEC
AWS Bio-Pharma
Technologies
Clean Rooms Intl
CS Assocs

ROBOTS

Hamilton Co,
Process Analytics
Siemens Process
Industries + Drives

**ROOMS, PORTABLE/
SOFTWARE**

AdvanceTEC
AES Clean Technology
Angstrom Technology,
Marketing
AWS Bio-Pharma
Technologies
Clean Rooms Intl
CleanZones LLC
Connecticut Clean
Room Corp
CS Assocs
FabOhio
Gerbig Engineering
Halco Products Co, Div
Hale Engineering Co
Hutchins & Hutchins,
Cleanroom Equipment
/ Supply Distributor
ILC Dover
Isolation Systems
Laminar Flow
Liberty Industries
LM Air Technology,
Cleanroom & Lab
Equipment
Process Tek

Simplex Isolation
Systems, TMI
International LLC
Telstar North America
The Baker Co
TRAX Industrial
Curtains
Ultrapure Technology
VWR Intl LLC
Xcellerex

SAFETY CABINETS

Benchmark Products
Bergen Industrial
Supply Co
Edgeco
Flanders Corp,
Containment Products
Flow Sciences
General Lab &
Cleanroom Supply,
dba General Lab
Supply
HEMCO Corp
Hutchins & Hutchins,
Cleanroom Equipment
/ Supply Distributor
Isolation Systems
Justrite Mfg Co
Kewaunee
Scientific Corp
Labconco Corp
LM Air Technology,
Cleanroom & Lab
Equipment
Process Tek
Safety Equipment Corp
STAXS
Telstar North America
The Baker Co
Ultrapure Technology
VWR Intl LLC

**SAFETY
ENGINEERING
SERVICES**

pixon engineering AG
Siemens Building
Technologies
Siemens Process
Industries + Drives

SEALANTS

Isolation Systems
Seal Master Corp
VWR Intl LLC

SECURITY SYSTEMS

CustomVault
Siemens Building
Technologies
Siemens Process
Industries + Drives

SHELVES

Akro-Mils
Benchmark Products
Bergen Industrial
Supply Co
Connecticut Clean
Room Corp
General Lab &
Cleanroom Supply,
dba General Lab
Supply
Isolation Systems
Lista Intl Corp
STAXS
Ultrapure Technology
VWR Intl LLC

**SHOE CLEANERS,
MANUAL**

Angstrom Supply
Angstrom Technology,
Marketing
Blue Thunder
Technologies
Connecticut Clean
Room Corp

General Lab &
Cleanroom Supply,
dba General Lab
Supply
Liberty Industries
STAXS
Ultrapure Technology

**SHOE CLEANERS,
MOTORIZED**

ACM, Advanced
Cleanroom Microclean
Angstrom Supply
Angstrom Technology,
Marketing
Blue Thunder
Technologies
Connecticut Clean
Room Corp
General Lab &
Cleanroom Supply,
dba General Lab
Supply
Hutchins & Hutchins,
Cleanroom Equipment
/ Supply Distributor
Liberty Industries
STAXS
Ultrapure Technology

**SHOE CLEANERS,
WALK-THROUGH**

Hutchins & Hutchins,
Cleanroom Equipment
/ Supply Distributor
Liberty Industries
STAXS
Ultrapure Technology

**SHOE COVERS,
DISPOSABLE**

ACM, Advanced
Cleanroom Microclean
Angstrom Supply
Benchmark Products
Blue Thunder
Technologies
Cintas, Cleanroom Div
Connecticut Clean
Room Corp
FabOhio
General Econopak
General Lab &
Cleanroom Supply,
dba General Lab
Supply
Hutchins & Hutchins,
Cleanroom Equipment
/ Supply Distributor
Liberty Industries
Nicos Group
Shoe Inn
STAXS
Ultrapure Technology
Veltek Assocs
VWR Intl LLC

**SHOE COVERS,
POLYPROPYLENE**

ACM, Advanced
Cleanroom Microclean
Angstrom Supply
Benchmark Products
Blue Thunder
Technologies
Cintas, Cleanroom Div
Connecticut Clean
Room Corp
General Econopak
General Lab &
Cleanroom Supply,
dba General Lab
Supply
Hutchins & Hutchins,
Cleanroom Equipment
/ Supply Distributor
Liberty Industries
Nicos Group
Shoe Inn
STAXS
Ultrapure Technology
VWR Intl LLC

**SHOE COVERS,
REUSABLE**

Angstrom Supply
Blue Thunder
Technologies
Cintas, Cleanroom Div
Connecticut Clean
Room Corp
Euclid Vidaro Mfg Co
General Econopak
General Lab &
Cleanroom Supply,
dba General Lab
Supply
Hutchins & Hutchins,
Cleanroom Equipment
/ Supply Distributor
Jenessco Industries
Liberty Industries
Shoe Inn
STAXS
Ultrapure Technology
VWR Intl LLC
Worklon

**SHOE COVERS,
STERILE**

ACM, Advanced
Cleanroom Microclean
Angstrom Supply
Benchmark Products
Blue Thunder
Technologies
Cintas, Cleanroom Div
Connecticut Clean
Room Corp
General Econopak
General Lab &
Cleanroom Supply,
dba General Lab
Supply
Hutchins & Hutchins,
Cleanroom Equipment
/ Supply Distributor
Shoe Inn
STAXS
Ultrapure Technology
VWR Intl LLC

SHOES

Blue Thunder
Technologies
General Lab &
Cleanroom Supply,
dba General Lab
Supply
Liberty Industries
Nicos Group
STAXS
Ultrapure Technology
VWR Intl LLC

SIGNS

Bergen Industrial
Supply Co
Blue Thunder
Technologies
General Lab &
Cleanroom Supply,
dba General Lab
Supply
Liberty Industries
VWR Intl LLC

**SLEEVE
PROTECTORS,
DISPOSABLE**

ACM, Advanced
Cleanroom Microclean
Angstrom Supply
Benchmark Products
Blue Thunder
Technologies
Connecticut Clean
Room Corp
FabOhio
General Econopak
General Lab &
Cleanroom Supply,
dba General Lab
Supply
Hutchins & Hutchins,
Cleanroom Equipment
/ Supply Distributor

Liberty Industries
STAXS
Ultrapure Technology
Veltek Assocs
VWR Intl LLC

**SLEEVE
PROTECTORS,
REUSABLE**

Angstrom Supply
Blue Thunder
Technologies
Connecticut Clean
Room Corp
Euclid Vidaro Mfg Co
General Econopak
General Lab &
Cleanroom Supply,
dba General Lab
Supply
Hutchins & Hutchins,
Cleanroom Equipment
/ Supply Distributor
Jenessco Industries
STAXS
Ultrapure Technology
VWR Intl LLC

**SLEEVE
PROTECTORS,
STERILE**

ACM, Advanced
Cleanroom Microclean
Angstrom Supply
Benchmark Products
Blue Thunder
Technologies
Connecticut Clean
Room Corp
General Econopak
General Lab &
Cleanroom Supply,
dba General Lab
Supply
Hutchins & Hutchins,
Cleanroom Equipment
/ Supply Distributor
STAXS
Ultrapure Technology
Veltek Assocs
VWR Intl LLC

**SMOCKS,
DISPOSABLE**

ACM, Advanced
Cleanroom Microclean
Angstrom Supply
Blue Thunder
Technologies
Cintas, Cleanroom Div
Connecticut Clean
Room Corp
General Econopak
General Lab &
Cleanroom Supply,
dba General Lab
Supply
Hutchins & Hutchins,
Cleanroom Equipment
/ Supply Distributor
Liberty Industries
STAXS
Ultrapure Technology
UniClean,
Div Unifirst Corp
VWR Intl LLC

SMOCKS, REUSABLE

Angstrom Supply
Blue Thunder
Technologies
Cintas, Cleanroom Div
Connecticut Clean
Room Corp
Euclid Vidaro Mfg Co
General Econopak
General Lab &
Cleanroom Supply,
dba General Lab
Supply
Hutchins & Hutchins,
Cleanroom Equipment
/ Supply Distributor
Jenessco Industries

Liberty Industries
STAXS
Ultrapure Technology
UniClean,
Div Unifirst Corp
VWR Intl LLC
Worklon

SMOCKS, STERILE

ACM, Advanced
Cleanroom Microclean
Angstrom Supply
Blue Thunder
Technologies
Cintas, Cleanroom Div
Connecticut Clean
Room Corp
General Econopak
General Lab &
Cleanroom Supply,
dba General Lab
Supply
Hutchins & Hutchins,
Cleanroom Equipment
/ Supply Distributor
Liberty Industries
STAXS
Ultrapure Technology
UniClean,
Div Unifirst Corp
VWR Intl LLC

SMOKE DETECTORS

STAXS
Ultrapure Technology
VWR Intl LLC

SMOKE GUNS

Liberty Industries
STAXS
Ultrapure Technology

SMOKE STICKS

General Lab &
Cleanroom Supply,
dba General Lab
Supply
Liberty Industries
STAXS

SPILL-CONTROL AGENTS

Benchmark Products
Blue Thunder
Technologies
Hutchins & Hutchins,
Cleanroom Equipment
/ Supply Distributor
Justrite Mfg Co
VWR Intl LLC

SPONGES

ACM, Advanced
Cleanroom Microclean
Angstrom Supply
Bel-Art Products
Benchmark Products
Blue Thunder
Technologies
Contec
General Econopak
Liberty Industries
Perfex Corp
STAXS
Veltek Assocs
VWR Intl LLC

SQUEEGEES

Angstrom Supply
Benchmark Products
Blue Thunder
Technologies
General Lab &
Cleanroom Supply,
dba General Lab
Supply
Hutchins & Hutchins,
Cleanroom Equipment
/ Supply Distributor
Liberty Industries
Perfex Corp
STAXS
VWR Intl LLC

STATIONERY

Angstrom Supply
Benchmark Products
Blue Thunder
Technologies
Georgia-Pacific Corp
ITW Texwipe
Liberty Industries
Lymtech Scientific
STAXS
Ultrapure Technology
VWR Intl LLC

STEAM GENERATORS

AWS Bio-Pharma
Technologies
Getinge USA, Life
Science
Isolation Systems
Nicos Group
Spirax Sarco
Telstar North America

STERILANTS

Angstrom Supply
Decon Labs
Isolation Systems
Process Tek
Veltek Assocs

STERILIZERS, VHP

Angstrom Supply
BIOQUELL, Life
Sciences
Clordisys Solutions
ESCO Technologies
Hutchins & Hutchins,
Cleanroom Equipment
/ Supply Distributor
Isolation Systems
Optima Machinery Corp

STOOLS

Benchmark Products
Blue Thunder
Technologies
General Lab &
Cleanroom Supply,
dba General Lab
Supply
Hutchins & Hutchins,
Cleanroom Equipment
/ Supply Distributor
Isolation Systems
Liberty Industries
STAXS
Ultrapure Technology
VWR Intl LLC

STORAGE BINS

Accurate Chemical &
Scientific Corp
Akro-Mils
AZO
Bel-Art Products
Benchmark Products
Blue Thunder
Technologies
Edgeco
General Lab &
Cleanroom Supply,
dba General Lab
Supply
Hurst Corp
Hutchins & Hutchins,
Cleanroom Equipment
/ Supply Distributor
InterMetro
Industries Corp
Isolation Systems
Liberty Industries
Lista Intl Corp
Molded Fiber Glass
Tray Co
Remcon Plastics
Seal Master Corp
STAXS
Ultrapure Technology
VWR Intl LLC

For vendor contact information, see Company Directory section.

STORAGE TANKS

A&B Process Systems
Corp, JBT Corporation
Apache Stainless
Equipment Corp
AZO
Bel-Art Products
Isolation Systems
Remcon Plastics
Ryan Herco Flow
Solutions
Seal Master Corp
VWR Intl LLC

SWABS, COTTON

ACM, Advanced
Cleanroom Microclean
Angstrom Supply
Benchmark Products
Blue Thunder
Technologies
Connecticut Clean
Room Corp
Contec
General Lab &
Cleanroom Supply,
dba General Lab
Supply
Hutchins & Hutchins,
Cleanroom Equipment
/ Supply Distributor
ITW Texwipe
Liberty Industries
Lymtech Scientific
Sonic Packaging
Industries
STAXS
Ultrapure Technology
VWR Intl LLC

SWABS, FOAM

ACM, Advanced
Cleanroom Microclean
Angstrom Supply
Angstrom Technology,
Marketing
Benchmark Products
Blue Thunder
Technologies
Connecticut Clean
Room Corp
Contec
General Lab &
Cleanroom Supply,
dba General Lab
Supply
Hutchins & Hutchins,
Cleanroom Equipment
/ Supply Distributor
ITW Texwipe
Liberty Industries
Lymtech Scientific
Sonic Packaging
Industries
STAXS
Ultrapure Technology
VWR Intl LLC

SWABS, SYNTHETIC FIBER

Angstrom Supply
BD Diagnostics
Benchmark Products
Blue Thunder
Technologies
Connecticut Clean
Room Corp
Contec
General Lab &
Cleanroom Supply,
dba General Lab
Supply
Hutchins & Hutchins,
Cleanroom Equipment
/ Supply Distributor
ITW Texwipe
Liberty Industries
Lymtech Scientific
Sonic Packaging
Industries
STAXS
Ultrapure Technology
VWR Intl LLC

TABLES

Angstrom Supply
Benchmark Products
Blue Thunder
Technologies
Clean Air Products
Clean Rooms Intl
Connecticut Clean
Room Corp
General Lab &
Cleanroom Supply,
dba General Lab
Supply
Hutchins & Hutchins,
Cleanroom Equipment
/ Supply Distributor
InterMetro
Industries Corp
Isolation Systems
Laminar Flow
Liberty Industries
STAXS
Ultrapure Technology
VWR Intl LLC

TABLETOPS

Angstrom Supply
Benchmark Products
Blue Thunder
Technologies
Clean Rooms Intl
Isolation Systems
Liberty Industries
STAXS
VWR Intl LLC

TAGS

Veltek Assocs
VWR Intl LLC

TAPE

Bel-Art Products
Benchmark Products
Blue Thunder
Technologies
General Econopak
General Lab &
Cleanroom Supply,
dba General Lab
Supply
ITW ALMA
ITW Texwipe
Liberty Industries
STAXS
Ultrapure Technology
VWR Intl LLC

THERMOMETERS

Ashcroft
Bergen Industrial
Supply Co
Cole-Parmer
E Instruments Intl
General Lab &
Cleanroom Supply,
dba General Lab
Supply
IKA Works
Liberty Industries
Marathon Products
Pyrometer Instrument
Co, PMA Process
Control Div
Testo
Vaisala
VWR Intl LLC
WIKA Instrument Corp
Yokogawa Corp
of America

TIMERS

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VACUUM CLEANERS, WET

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Marketing
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DJS Enterprises
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HealthStar
IMA North America
Kaps-All Packaging Systems
Keith Machinery Corp
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Uhlmann Packaging Systems LP
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Cozzoli Machine Co
DJS Enterprises
Matthews Intl Corp,
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Bioscience
Bosch Packaging Technology, Pharma
Cozzoli Machine Co
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Pharmaceutical Div
DJS Enterprises
HealthStar
Kaps-All Packaging Systems
Process Tek

AMPULS
Bioscience
Daiichi Jitsugyo (America),
Pharmaceutical Div
EquipNet
Gerresheimer AG,
Communication
Gerresheimer Buende GmbH, Gerresheimer Medical Systems
James Alexander Corp
Kimble Chase, Life Sciences & Research

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TricorBraun
Weiler Engineering
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Bosch Packaging Technology, Pharma
Daiichi Jitsugyo (America),
Pharmaceutical Div
ESCO Technologies
FP Developments
groninger USA LLC,
Marketing
MagneMotion
Optima Machinery Corp
OPTIMA pharma GmbH
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Weiler Engineering

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Bosch Packaging Technology
DJS Enterprises
Hutchins & Hutchins,
Cleanroom Equipment / Supply Distributor
ILAPAK
KNF Corp
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Seal Master Corp

BAG CLOSURES
Bel-Art Products
ILC Dover
Seal Master Corp

BAG FILLING EQUIPMENT
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American-Newlong
Automation Products
AWS Bio-Pharma Technologies
AZO
Batching Systems
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Black Forest Container Systems
Bosch Packaging Technology
Bosch Packaging Technology, Pharma
Creative Automation
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Hosokawa Micron
Powder Systems
ILAPAK
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Material Transfer & Storage
Oystar USA

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Seal Master Corp
Spiroflow Systems

BAGS, BAG-IN-BOX
Black Forest Container Systems
Bosch Packaging Technology
F.P.S. Food and Pharma Systems srl
Filamatic, National
Instrument LLC
ILC Dover
Isolation Systems
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OK Sealer
Prodo-Pak Corp
Seal Master Corp
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BAGS, FILM-LINED
Advanced Scientific
Bausch Advanced Technologies
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KNF Corp
Lonza
Seal Master Corp

BAGS, POLYETHYLENE
Admiral Packaging
Advanced Scientific
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Packaging Div
Bausch Advanced Technologies
Bel-Art Products
Globe Scientific
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Technologies
Bausch+Stroebel
Machine Co
Capmatic Ltd
Daiichi Jitsugyo
(America),
Pharmaceutical Div
DJS Enterprises
groninger USA LLC,
Marketing
Kaps-All Packaging
Systems
Key Intl
McBrady Engineering
New England Machinery
Optima Machinery Corp
Sani-Matic

BOTTLES

Comar
ESS Technologies
Gerresheimer AG,
Communication

**BOTTLES
(SEE ALSO VIALS)**

Alpha Packaging
Bel-Art Products
Blue Thunder
Technologies
CMW Stainless
Globe Scientific
groninger USA LLC,
Marketing
J.G. Finneran Assocs
Kimble Chase, Life
Sciences & Research
O.Berk Co, Healthcare
Packaging Group
TOPAS Advanced
Polymers
TricorBraun
Weiler Engineering
Wheaton Industries,
Wheaton Science
Packaging

**BOTTLES, AMBER
GLASS**

Blue Thunder
Technologies
Gerresheimer AG,
Communication
J.G. Finneran Assocs
Kimble Chase, Life
Sciences & Research
O.Berk Co, Healthcare
Packaging Group

TricorBraun
Wheaton Industries,
Wheaton Science
Packaging

**BOTTLES, CLEAR
GLASS**

Blue Thunder
Technologies
General Lab &
Cleanroom Supply,
dba General Lab
Supply
Gerresheimer AG,
Communication
J.G. Finneran Assocs
Kimble Chase, Life
Sciences & Research
O.Berk Co, Healthcare
Packaging Group
TricorBraun
Wheaton Industries,
Wheaton Science
Packaging

BOTTLES, DROPPER

Bel-Art Products
Blue Thunder
Technologies
Comar
Gerresheimer AG,
Communication
Gerresheimer Buende
GmbH, Gerresheimer
Medical Systems
Kimble Chase, Life
Sciences & Research
O.Berk Co, Healthcare
Packaging Group
TricorBraun
Wheaton Industries,
Wheaton Science
Packaging

**BOTTLES, FLEXIBLE
POLYETHYLENE**

Alpha Packaging
Bel-Art Products
Blue Thunder
Technologies
Gerresheimer AG,
Communication
Globe Scientific
O.Berk Co, Healthcare
Packaging Group
Wheaton Industries,
Wheaton Science
Packaging

**BOTTLES, GLASS,
PLASTIC-COATED**

Blue Thunder
Technologies
General Lab &
Cleanroom Supply,
dba General Lab
Supply
O.Berk Co, Healthcare
Packaging Group
TricorBraun
Wheaton Industries,
Wheaton Science
Packaging

**BOTTLES,
POLYCARBONATE**

Blue Thunder
Technologies
Intellitech
O.Berk Co, Healthcare
Packaging Group

**BOTTLES,
POLYESTER**

Alpha Packaging
Blue Thunder
Technologies
O.Berk Co, Healthcare
Packaging Group

**BOTTLES,
POLYPROPYLENE**

Alpha Packaging
Bel-Art Products
Blue Thunder
Technologies
Comar
Gerresheimer AG,
Communication
Globe Scientific
Hutchins & Hutchins,
Cleanroom Equipment
/ Supply Distributor
J.G. Finneran Assocs
O.Berk Co, Healthcare
Packaging Group
TricorBraun
Wheaton Industries,
Wheaton Science
Packaging

**BOTTLES,
POLYVINYL
CHLORIDE**

Alpha Packaging
Bel-Art Products
Blue Thunder
Technologies
O.Berk Co, Healthcare
Packaging Group

**BOTTLES, SERUM
(VIALS)**

Blue Thunder
Technologies
General Lab &
Cleanroom Supply,
dba General Lab
Supply
Gerresheimer AG,
Communication
Globe Scientific
Kimble Chase, Life
Sciences & Research
O.Berk Co, Healthcare
Packaging Group
TricorBraun
Wheaton Industries,
Wheaton Science
Packaging

**BOXES, MOLDED
PLASTIC (STOCK)**

Alpha Packaging
Bel-Art Products
Lantech
Remcon Plastics

BOXES, SET-UP

Howell Packaging
Lantech

**BUNDLING
MACHINES**

Champion Trading Corp
DJS Enterprises
G&K-Vijuk Intl
HealthStar
IMA North America
MG America
Romaco North
American

**CAN CLOSING
EQUIPMENT**

Auto-Mate
Technologies LLC
Champion Trading Corp
DJS Enterprises
Kaps-All Packaging
Systems
Keith Machinery Corp
Process Tek

**CAN FEEDING
EQUIPMENT**

DJS Enterprises
Garvey Corp
Kaps-All Packaging
Systems

For vendor contact information, see Company Directory section.

Keith Machinery Corp
Process Tek

CAN FILLING EQUIPMENT

Cozzoli Machine Co
DJS Enterprises
IVEK Corp
Kaps-All Packaging Systems
Keith Machinery Corp
Krohne
Oden Machinery
Per-Fil Industries
Process Tek

CANS, STEEL

Justrite Mfg Co
TricorBraun

CAP SEALERS

Auto-Mate Technologies LLC
Blue Thunder Technologies
CapPlus Technologies
Daiichi Jitsugyo (America), Pharmaceutical Div
DJS Enterprises
Enercon Industries Corp
groninger USA LLC, Marketing
HealthStar
Kaps-All Packaging Systems
Keith Machinery Corp
Modular Packaging Systems
Optima Machinery Corp
Seal Master Corp
TricorBraun

CAP SEALERS, INNER SEAL

Auto-Mate Technologies LLC
Blue Thunder Technologies
CapPlus Technologies
Daiichi Jitsugyo (America), Pharmaceutical Div
Enercon Industries Corp
ESS Technologies
HealthStar
Kaps-All Packaging Systems
Keith Machinery Corp
Modular Packaging Systems
Optima Machinery Corp
Seal Master Corp
TricorBraun

CAP SEALERS, TAMPER-EVIDENT

Auto-Mate Technologies LLC
Blue Thunder Technologies
CapPlus Technologies
Constantia Flexibles
Daiichi Jitsugyo (America), Pharmaceutical Div
DJS Enterprises
Enercon Industries Corp
HealthStar
Kaps-All Packaging Systems
Modular Packaging Systems
Optima Machinery Corp
TricorBraun

CAP TORQUE ANALYZERS

Auto-Mate Technologies LLC
DJS Enterprises
Kaps-All Packaging Systems
Modular Packaging Systems
Optima Machinery Corp
Pharmatron
Process Tek

CAPPING MACHINERY

Auto-Mate Technologies LLC
AWS Bio-Pharma Technologies
Bausch Advanced Technologies
Capmatic Ltd
CapPlus Technologies
Champion Trading Corp
Chase-Logeman Corp
Cozzoli Machine Co
CroPharm
Daiichi Jitsugyo (America), Pharmaceutical Div
DJS Enterprises
groninger USA LLC, Marketing
HealthStar
IMA North America
Intellitech
Kaps-All Packaging Systems
Keith Machinery Corp
Key Intl
MagneMotion
Modular Packaging Systems
New England Machinery
Newman Labeling Systems

Optima Machinery Corp
Romaco North American
Zalkin, Zalkin Americas

CAPS, CHILD-RESISTANT

Comar
Gerresheimer AG, Communication
Gerresheimer Buende GmbH, Gerresheimer Medical Systems
Kaps-All Packaging Systems
O.Berk Co, Healthcare Packaging Group
TricorBraun

CAPS, LINERS

Comar
Constantia Flexibles
Gerresheimer AG, Communication
O.Berk Co, Healthcare Packaging Group
Pawling Engineered Products
Reiss Mfg, Ronsil Rubber & Kentron Plastics Divs
TricorBraun
WL Gore & Assocs, Gore PharmBIO Products

CAPS, METAL

Comar
Flex Products
O.Berk Co, Healthcare Packaging Group
TricorBraun

CAPS, MOLDED PLASTIC

Bel-Art Products
Comar
Flex Products
Gerresheimer AG, Communication
Globe Scientific
J.G. Finneran Assocs
O.Berk Co, Healthcare Packaging Group
TricorBraun
Wheaton Industries, Wheaton Science Packaging

CAPS, OVERCAPS

Flex Products
Helvoet Pharma
O.Berk Co, Healthcare Packaging Group
TricorBraun

CAPS, TAMPER-RESISTANT

Comar
Enercon Industries Corp
Gerresheimer AG, Communication
Gerresheimer Buende GmbH, Gerresheimer Medical Systems
Kaps-All Packaging Systems
O.Berk Co, Healthcare Packaging Group
TricorBraun
Wheaton Industries, Wheaton Science Packaging

CAPSULE FILLERS

ACG North America LLC
Bosch Packaging Technology, Pharma

CapPlus Technologies
Contract
Pharmaceutical Corp
CroPharm
DJS Enterprises
HealthStar
IMA North America
Keith Machinery Corp
Key Intl
Mendel Co
MG America
Molins
Qualicaps
Torpac

CAPSULE FILLING AND COUNTING MACHINES

ACG North America LLC
Batching Systems
Bosch Packaging Technology, Pharma
CapPlus Technologies
Contract
Pharmaceutical Corp
DJS Enterprises
HealthStar
IMA North America
Integrated Packaging Systems
Keith Machinery Corp
Key Intl
MagneMotion
Mendel Co
MG America
Modular Packaging Systems
Qualicaps
Torpac
Wipotec North America

CAPSULE MANUFACTURING EQUIPMENT

Automation Products
CapPlus Technologies

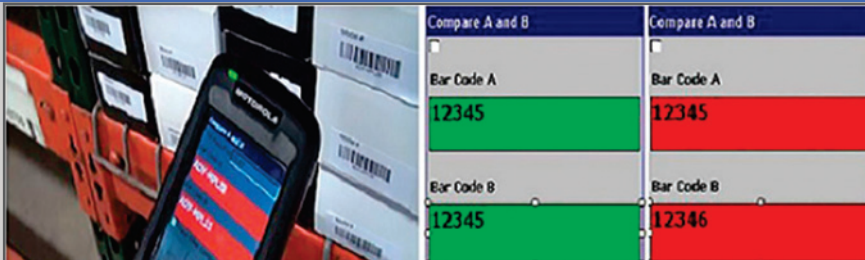
SSE Technologies



ELIMINATE BARCODE LABELING ERRORS



GOLDEN BARCODE COMPARATOR



Assure barcode content is correct by matching to good reference barcodes

- Accurate-Error Free
- Economical
- Simple operation
- 1 and 2D barcodes
- Portable
- Test result Reporting

APPLICATIONS INCLUDE:

- Pharmacy Meds Verification
- Relabeling
- QC barcode checks
- Pharmaceutical Product Security

SEE THE DETAILS AT

<http://www.ssetechnologies.com/comparison-checker-2/>

INQUIRIES TO

info@ssetechnologies.com

SSE Technologies

791 Meacham Ave, Elmont, NY 11003

516 872-7000 • 800 729-2444

www.ssetechnologies.com

For vendor contact information, see Company Directory section.

Contract
Pharmaceutical Corp
DJS Enterprises
Keith Machinery Corp
Mendel Co
MG America
Molded Fiber Glass
Tray Co
Molins
Qualicaps
Torpac
Zed Industries

CAPSULE PRINTING EQUIPMENT

AC Compacting LLC
Ackley Machine Corp
CapPlus Technologies
Control Micro Systems
DJS Enterprises
Efficient Automated
Machine Corp
HealthStar
Keith Machinery Corp
Matthews Intl Corp,
Matthews Marking
Systems
Qualicaps

CAPSULE SEALING EQUIPMENT

CapPlus Technologies
DJS Enterprises
ESS Technologies
Keith Machinery Corp
MG America
Qualicaps

CAPSULES, HARD SHELL

DJS Enterprises
EmboCaps by Suheung
IMA North America
Mendel Co
Michael Benalt
Qualicaps
Suheung
America Corp
Torpac

CARBOYS

Bel-Art Products
Justrite Mfg Co
Kimble Chase, Life
Sciences & Research
O.Berk Co, Healthcare
Packaging Group
TricorBraun

CARTON PRINTING/ CODING EQUIP

Griffin-Rutgers Co
Mettler Toledo PCE,
Product Inspection

CARTONING MACHINES

ACG North America LLC
AWS Bio-Pharma
Technologies
Bosch Packaging
Technology
CapPlus Technologies
Champion Trading Corp
Contract
Pharmaceutical Corp
Daichi Jitsugyo
(America),
Pharmaceutical Div
DJS Enterprises
Douglas Machine
ESS Technologies
HealthStar
IMA North America
Key Intl
Lantech
MG America
Modular Packaging
Systems
Molins
Oyster USA
Prodo-Pak Corp

Romaco North
American
Uhlmann Packaging
Systems LP

CARTONS, FOLDING FIBER

Bosch Packaging
Technology
Cortegra Group
Howell Packaging
Keystone Folding
Box Co

CARTONS, FOLDING PAPERBOARD

Howell Packaging
Lantech
RONGO-PAK

CASE PACKING EQUIPMENT

ACG North America LLC
AWS Bio-Pharma
Technologies
Bosch Packaging
Technology
DJS Enterprises
Douglas Machine
HealthStar
IMA North America
Keith Machinery Corp
Lantech
Mettler Toledo PCE,
Product Inspection
MG America
NJM Packaging,
Powered by Pro Mach
Oystar USA
Romaco North
American
Spiroflow Systems
Uhlmann Packaging
Systems LP

CLINICAL TRIALS PACKAGING

AC Compacting LLC
Biocair
groninger USA LLC,
Marketing
Helvoet Pharma
Hurst Corp
Siemens Process
Industries + Drives
TCP Reliable
Wheaton Industries,
Wheaton Science
Packaging
Zed Industries

CLOSURES, SECONDARY

Flex Products
Helvoet Pharma
O.Berk Co, Healthcare
Packaging Group
West Pharmaceutical
Services
Wheaton Industries,
Wheaton Science
Packaging

COIL, COTTON, RAYON, OR POLYESTER
O.Berk Co, Healthcare
Packaging Group

COLLATING SYSTEMS (FOR CARTONS, BOTTLES, ETC.)

DJS Enterprises
Garvey Corp
IMA North America
MG America
Uhlmann Packaging
Systems LP

CONTAINER CLEANING EQUIPMENT

Cozzoli Machine Co
HealthStar
Kaps-All Packaging
Systems
Micro Measurement
Labs
New England Machinery
Sani-Matic
Seidenader Equipment
Servolift

CONTROL SYSTEMS, PACKAGING

ATS Automation
Tooling Systems
Festo Corp
FSI Technologies
Garvey Corp
ICONICS
Mettler Toledo PCE,
Product Inspection
NJM Packaging,
Powered by Pro Mach
Parker Hannifin,
Electromechanical
Automation Div
Rockwell Automation
Siemens Process
Industries + Drives
Spiroflow Systems
SSE Technologies
Tri-Tronics Co
Uhlmann Packaging
Systems LP

COTTONING MACHINES

CapPlus Technologies
Daichi Jitsugyo
(America),
Pharmaceutical Div
DJS Enterprises
HealthStar
IMA North America
Integrated Packaging
Systems
Keith Machinery Corp
Key Intl
Modular Packaging
Systems
NJM Packaging,
Powered by Pro Mach

COUNTING DEVICES

BellatRx
CapPlus Technologies
DJS Enterprises
Festo Corp
FSI Technologies
HealthStar
IMA North America
Integrated Packaging
Systems
Modular Packaging
Systems
NJM Packaging,
Powered by Pro Mach
Tri-Tronics Co

CRIMPERS

Capmatic Ltd
Cozzoli Machine Co
CroPharm
DJS Enterprises
groninger USA LLC,
Marketing
HealthStar
ILC Dover
J.G. Finneran Assocs
Rockwell Automation
WHEATON
Wheaton Industries,
Wheaton Science
Packaging

DEBLISTERERS

AWS Bio-Pharma
Technologies
DJS Enterprises
EquipNet

IMA North America
Uhlmann Packaging
Systems LP
Zed Industries

DECRIMPERS

DJS Enterprises
J.G. Finneran Assocs
WHEATON
Wheaton Industries,
Wheaton Science
Packaging

DESICCANTS

ATMI LifeSciences,
Packaging Div
Capmatic Ltd
DJS Enterprises
Key Intl
Modular Packaging
Systems
Momentive
Performance Materials
O.Berk Co, Healthcare
Packaging Group
TricorBraun
WA Hammond Drierite
Co Ltd
WL Gore & Assocs,
Gore PharmBIO
Products

DIE-CUT LIDS

Cortegra Group
Reiss Mfg, Ronsil
Rubber & Kentron
Plastics Divs
Zed Industries

DROPPERS

American Stelmi Corp
Comar
Gerresheimer Buende
GmbH, Gerresheimer
Medical Systems
Globe Scientific
Kaps-All Packaging
Systems
O.Berk Co, Healthcare
Packaging Group
TricorBraun
Wheaton Industries,
Wheaton Science
Packaging

DRUMLINERS

Advanced Scientific
Andax Industries LLC
ATMI LifeSciences,
Packaging Div
General Econopak
ILC Dover
Ryan Herco Flow
Solutions

DRUMS, COATED

MO Industries
Ryan Herco Flow
Solutions

DRUMS, COMPOSITE

MO Industries

DRUMS, FLUOROPOLYMER-LINED

Ryan Herco Flow
Solutions

DRUMS, METAL

Apache Stainless
Equipment Corp
ESS Technologies
MO Industries
O.Berk Co, Healthcare
Packaging Group
Process Solutions
Servolift
TricorBraun

DRUMS, PLASTIC

Bel-Art Products
ESS Technologies
O.Berk Co, Healthcare
Packaging Group
Process Solutions
Remcon Plastics
Snyder Industries, Dry
Handling & IBC Div
TricorBraun

FEP BOTTLES

ESS Technologies
Savillex Corp

FILL-BY-WEIGHT SYSTEMS

AC Compacting LLC
APD Systems
Atlantic Scale Co
AZO
Batching Systems
Bosch Packaging
Technology, Pharma
DJS Enterprises
ESS Technologies
F.P.S. Food and Pharma
Systems srl
Hosokawa Micron
Powder Systems
Material Transfer &
Storage
Oden Machinery
Optima Machinery Corp
Per-Fil Industries
Prodo-Pak Corp
Spiroflow Systems

FILLING MACHINES, CREAMS AND PASTES

AWS Bio-Pharma
Technologies
Bosch Packaging
Technology, Pharma
Capmatic Ltd
CapPlus Technologies
Champion Trading Corp
Cozzoli Machine Co
Creative Automation
Daichi Jitsugyo
(America),
Pharmaceutical Div
DJS Enterprises
Filamatic, National
Instrument LLC
groninger USA LLC,
Marketing
HealthStar
IMA North America
IVEK Corp
Kaps-All Packaging
Systems
Keith Machinery Corp
Kemwall Dists Ltd
Key Intl
Modular Packaging
Systems
Oden Machinery
Oyster USA
Oyster Bay Pump Works
Per-Fil Industries
Prodo-Pak Corp
Qualicaps

FILLING MACHINES, DRY POWDER BY WEIGHT

American-Newlong
Atlantic Scale Co
AZO
Bosch Packaging
Technology
Capmatic Ltd
CapPlus Technologies
Champion Trading Corp
Contract
Pharmaceutical Corp
Cozzoli Machine Co
Creative Automation
Custom Powder
Systems. The
Containment Co

DJS Enterprises
F.P.S. Food and Pharma
Systems srl
HealthStar
Hosokawa Micron
Powder Systems
IMA North America
Keith Machinery Corp
Material Transfer &
Storage
Modular Packaging
Systems
Molins
NJM Packaging,
Powered by Pro Mach
Optima Machinery Corp
Per-Fil Industries
Prodo-Pak Corp
Qualicaps
Spee-Dee Packaging
Machinery
Spiroflow Systems
Vac-U-Max

FILLING MACHINES, DRY PRODUCTS

AZO
Batching Systems
BellatRx
Bosch Packaging
Technology
Bosch Packaging
Technology, Pharma
Champion Trading Corp
Contract
Pharmaceutical Corp
Cozzoli Machine Co
Creative Automation
Custom Powder
Systems. The
Containment Co
DJS Enterprises
HealthStar
Hosokawa Micron
Powder Systems
ILAPAK
IMA North America
Integrated Packaging
Systems
Keith Machinery Corp
Kemwall Dists Ltd
MagneMotion
Material Transfer &
Storage
MG America
Modular Packaging
Systems
Molins
NJM Packaging,
Powered by Pro Mach
OK Sealer
Optima Machinery Corp
Oystar USA
Per-Fil Industries
Prodo-Pak Corp
Qualicaps
Spee-Dee Packaging
Machinery
Spiroflow Systems
Vac-U-Max

FILLING MACHINES, LIQUIDS

Advanced Scientific
Auto-Mate
Technologies LLC
Bausch Advanced
Technologies
Bausch+Stroebel
Machine Co
BellatRx
Bioscience
Bosch Packaging
Technology, Pharma
Capmatic Ltd
CapPlus Technologies
Champion Trading Corp
Chase-Logeman Corp
Cozzoli Machine Co
Creative Automation
CroPharm
Daichi Jitsugyo
(America),
Pharmaceutical Div

DJS Enterprises
Efficient Automated
Machine Corp
ESCO Technologies
Filamatic, National
Instrument LLC
FP Developments
groninger USA LLC,
Marketing
HealthStar
IMA North America
Integrated Packaging
Systems
IntelliTech
IVEK Corp
Kaps-All Packaging
Systems
Keith Machinery Corp
Kemwall Distrs Ltd
MagneMotion
Modular Packaging
Systems
Molins
NJM Packaging,
Powered by Pro Mach
Oden Machinery
OK Sealer
Optima Machinery Corp
OPTIMA pharma GmbH
Oystar USA
Pall Life Sciences,
Biopharmaceuticals
Prodo-Pak Corp
Qualicaps
Romaco North
American
.....
Rommelag USA
303-674-8333
fax 303-670-2666
mail.romus@rommelag.com
www.rommelag.com
.....
Weiler Engineering

**FILLING MACHINES,
VACUUM**

AZO
Capmatic Ltd
Champion Trading Corp
Cozzoli Machine Co
DJS Enterprises
Efficient Automated
Machine Corp
groninger USA LLC,
Marketing
HealthStar
IMA North America
Keith Machinery Corp
NJM Packaging,
Powered by Pro Mach
Optima Machinery Corp
OPTIMA pharma GmbH
Vac-U-Max

**FILM, HEAT
SHRINKABLE**

ATMI LifeSciences,
Packaging Div
Bosch Packaging
Technology
DJS Enterprises
Klockner Pentaplast
KNF Corp

**FILM, HEAT
SHRINKABLE PVC**

Bosch Packaging
Technology
DJS Enterprises
Klockner Pentaplast
KNF Corp

**FILM,
POLYPROPYLENE**

Admiral Packaging
Bosch Packaging
Technology
Constantia Flexibles
DJS Enterprises
Klockner Pentaplast
KNF Corp
OK Sealer
Tekni-Plex

FILM, PVC

Constantia Flexibles
DJS Enterprises
FabOhio
Key Intl
Klockner Pentaplast
KNF Corp
Tekni-Plex
TRAX Industrial
Curtains

**FILMS, BARRIER,
COATED AND
LAMINATED**

Adhesives Research
Admiral Packaging
ATMI LifeSciences,
Packaging Div
Constantia Flexibles
FabOhio
Glenroy
ILC Dover
Klockner Pentaplast
KNF Corp
Oliver Healthcare
Packaging
Tekni-Plex
TOPAS Advanced
Polymers

**FILMS, BARRIER,
LAMINATED**

Admiral Packaging
ATMI LifeSciences,
Packaging Div
Constantia Flexibles
DJS Enterprises
FabOhio
Glenroy
Klockner Pentaplast
KNF Corp
Mylan Technologies
Rommelag USA
TOLAS Healthcare
Packaging

**FILMS, BARRIER,
PVC COATED**

Constantia Flexibles
FabOhio
Glenroy
Klockner Pentaplast
KNF Corp
Tekni-Plex

**FILMS, BARRIER,
PVDC COATED AND
LAMINATED**

Admiral Packaging
Constantia Flexibles
Glenroy
Klockner Pentaplast
KNF Corp
Reiss Mfg, Ronsil
Rubber & Kentron
Plastics Divs
Tekni-Plex

FILMS, PRINTING

Admiral Packaging
DJS Enterprises
Glenroy
Gottscho Printing
Systems
Klockner Pentaplast
Matthews Intl Corp,
Matthews Marking
Systems
Molins
TOLAS Healthcare
Packaging
Weber Packaging
Solutions

**FLEXIBLE STERILE
PACKAGING**

Advanced Scientific
ATMI LifeSciences,
Packaging Div
Constantia Flexibles
Cozzoli Machine Co
ILC Dover

KNF Corp
Lonza
Oliver Healthcare
Packaging
Oystar USA
Prodo-Pak Corp
Tekni-Plex
TOLAS Healthcare
Packaging
Zed Industries

FOAM

Adhesives Research
Blue Thunder
Technologies
TCP Reliable

**FORM-FILL-SEAL
MACHINES**

Bosch Packaging
Technology
Capmatic Ltd
CapPlus Technologies
Creative Automation
Daiichi Jitsugyo
(America),
Pharmaceutical Div
Dalemark Industries
DJS Enterprises
General Packaging
Equipment Co
HealthStar
IMA North America
MG America
Modular Packaging
Systems
Molins
Ossid, Div Pro Mach
Oystar USA
Process Tek
Prodo-Pak Corp
Weiler Engineering
Zed Industries

**GELATIN CAPSULES,
LIQUID FILLED**

DJS Enterprises
MG America
Qualicaps

**HEAT SEAL
PACKAGING
MACHINES**

Auto-Mate
Technologies LLC
Bosch Packaging
Technology
CapPlus Technologies
Contract
Pharmal Corp
Dalton Electric
Heating Co
DJS Enterprises
Enercon Industries Corp
General Packaging
Equipment Co
HealthStar
Keith Machinery Corp
KNF Corp
Rennco LLC, Pro Mach
American
Zed Industries

HEAT TUNNELS

Bosch Packaging
Technology
Bosch Packaging
Technology, Pharma
CapPlus Technologies
Champion Trading Corp
DJS Enterprises
groninger USA LLC,
Marketing
HealthStar
Keith Machinery Corp
Modular Packaging
Systems
Optima Machinery Corp

HOSE, PLASTIC

AdvantaPure
WL Gore & Assocs,
Gore PharmBIO
Products

HOT STAMPING FOIL

Dalemark Industries
DJS Enterprises
Gottscho Printing
Systems
Greydon
Griffin-Rutgers Co

INK, FDA-LISTED

Greydon
Hapa & Laetus
Videojet Technologies

INK, NONTOXIC

Greydon
Videojet Technologies

INSERTS/OUTSERTS

Contract
Pharmal Corp
Cortegra Group
Creative Automation
Daiichi Jitsugyo
(America),
Pharmaceutical Div
DJS Enterprises
G&K-Vijuk Intl
RONDO-PAK

**INSPECTION
DEVICES**

AC Compacting LLC
Ackley Machine Corp
ATS Automation
Tooling Systems
Bausch+Stroebel
Machine Co
Cognex Corp
Contract
Pharmal Corp
Daiichi Jitsugyo
(America),
Pharmaceutical Div
DJS Enterprises
Driam USA
Fortress Technology
FSI Technologies
Hapa & Laetus
HealthStar
Integrated Packaging
Systems
Kaps-All Packaging
Systems
Lenox Instrument Co
NJM Packaging,
Powered by Pro Mach
Proditec
PTI Packaging
Technologies &
Inspection LLC
Qualicaps
Robert Bosch Packaging
Technology, Inspection
Technology Pharma
Seidenader Equipment
Siemens Building
Technologies
Siemens Process
Industries + Drives
SSE Technologies
Tri-Tronics Co
Victor Intl Mktg

**JAR PRINTING
EQUIPMENT**

Control Micro Systems
Dalemark Industries
Griffin-Rutgers Co
Keith Machinery Corp
Label Mill

JARS, GLASS

Chem Flowtronics
Contract
Pharmal Corp

Kimble Chase, Life
Sciences & Research
O.Berk Co, Healthcare
Packaging Group
TricorBraun

JARS, PLASTIC

Alpha Packaging
Bel-Art Products
Flex Products
Gerresheimer Buende
GmbH, Gerresheimer
Medical Systems
Globe Scientific
O.Berk Co, Healthcare
Packaging Group
TricorBraun

**LABEL CODING
EQUIPMENT**

BellatRx
Blue Thunder
Technologies
Capmatic Ltd
Contract
Pharmal Corp
Control Micro Systems
Dalemark Industries
DJS Enterprises
G&K-Vijuk Intl
Gottscho Printing
Systems
Greydon
Griffin-Rutgers Co
Kaps-All Packaging
Systems
Keith Machinery Corp
Label Mill
Matthews Intl Corp,
Matthews Marking
Systems
Mettler Toledo PCE,
Product Inspection
NJM Packaging,
Powered by Pro Mach
Optima Machinery Corp
SSE Technologies
Videojet Technologies
Weber Packaging
Solutions

**LABEL DATING
EQUIPMENT**

Auto-Mate
Technologies LLC
BellatRx
Blue Thunder
Technologies
Capmatic Ltd
Contract
Pharmal Corp
Control Micro Systems
Dalemark Industries
DJS Enterprises
Gottscho Printing
Systems
Griffin-Rutgers Co
Kaps-All Packaging
Systems
Keith Machinery Corp
Label Mill
Matthews Intl Corp,
Matthews Marking
Systems
NJM Packaging,
Powered by Pro Mach
Re-Pack
SSE Technologies
Weber Packaging
Solutions

**LABEL DISPENSING
EQUIPMENT**

ASG, Jergens
Auto-Mate
Technologies LLC
Bausch Advanced
Technologies
BellatRx
Blue Thunder
Technologies
Capmatic Ltd
CapPlus Technologies

Contract
Pharmal Corp
Dalemark Industries
DJS Enterprises
G&K-Vijuk Intl
GMP Labeling
Kaps-All Packaging
Systems
Keith Machinery Corp
Label Mill
Lion Precision
Modular Packaging
Systems
NJM Packaging,
Powered by Pro Mach
Re-Pack
SSE Technologies
Weber Packaging
Solutions

**LABEL GLUING
EQUIPMENT**

Blue Thunder
Technologies
Bosch Packaging
Technology
DJS Enterprises
Keith Machinery Corp
NJM Packaging,
Powered by Pro Mach

**LABEL INSPECTION
EQUIPMENT**

ATS Automation
Tooling Systems
Auto-Mate
Technologies LLC
Bausch Advanced
Technologies
BellatRx
Blue Thunder
Technologies
Capmatic Ltd
DJS Enterprises
FSI Technologies
Hapa & Laetus
HealthStar
Kaps-All Packaging
Systems
Keith Machinery Corp
Label Mill
Mettler Toledo PCE,
Product Inspection
NJM Packaging,
Powered by Pro Mach
Omega Design Corp
Optima Machinery Corp
Seidenader Equipment
SSE Technologies
Tri-Tronics Co

**LABEL REMOVAL
EQUIPMENT**

Blue Thunder
Technologies
Hurst Corp
Keith Machinery Corp

**LABELING
EQUIPMENT,
DIRECT TRANSFER**

Auto-Mate
Technologies LLC
BellatRx
Capmatic Ltd
CapPlus Technologies
Daiichi Jitsugyo
(America),
Pharmaceutical Div
Dalemark Industries
DJS Enterprises
G&K-Vijuk Intl
Griffin-Rutgers Co
groninger USA LLC,
Marketing
HealthStar
Kaps-All Packaging
Systems
Keith Machinery Corp
Label Mill
Modular Packaging
Systems

Newman Labeling Systems
NJM Packaging, Powered by Pro Mach
Optima Machinery Corp
SSE Technologies
Weber Packaging Solutions

LABELING MACHINERY

Auto-Mate
Technologies LLC
Automation Systems Interconnect
Capmatic Ltd
Chase-Logeman Corp
Daichi Jitsugyo (America), Pharmaceutical Div
Dalemark Industries
DJS Enterprises
G&K-Vijuk Intl
Griffin-Rutgers Co
Kaps-All Packaging Systems
Lion Precision
Mettler Toledo PCE, Product Inspection
Newman Labeling Systems
Optima Machinery Corp
Re-Pack
SSE Technologies
Videojet Technologies
Weber Packaging Solutions

LABELS, CLINICAL

Clinical Systems Contract
Pharmaceutical Corp
Schreiner MediPharm
SSE Technologies
Valley Forge Tape & Label Co
Weber Packaging Solutions

LABELS, CLINICAL BOOKLET LABELS

Clinical Systems
RONDO-PAK
Schreiner MediPharm
Weber Packaging Solutions

LABELS, COMPUTER-CODED

Blue Thunder Technologies
Clinical Systems
Cortegra Group
ITW ALMA
Mettler Toledo PCE, Product Inspection
Schreiner MediPharm
SSE Technologies
Weber Packaging Solutions

LABELS, FOIL

Blue Thunder Technologies
Cortegra Group
GMP Labeling
Schreiner MediPharm
TricorBraun
Valley Forge Tape & Label Co
Weber Packaging Solutions

LABELS, HEAT-SHRINKABLE

Blue Thunder Technologies
Klockner Pentaplast
TricorBraun

LABELS, HOT-STAMPED

Auto-Mate Technologies LLC
Blue Thunder Technologies
Cortegra Group
Kaps-All Packaging Systems
TricorBraun
Valley Forge Tape & Label Co
Weber Packaging Solutions

LABELS, METAL

Blue Thunder Technologies
TricorBraun
Valley Forge Tape & Label Co

LABELS, PAPER

Akro-Mils
Auto-Mate Technologies LLC
Bel-Art Products
Blue Thunder Technologies
Cortegra Group
GMP Labeling
Kaps-All Packaging Systems
Label Mill
Schreiner MediPharm
TricorBraun
Valley Forge Tape & Label Co
Weber Packaging Solutions

LABELS, PLASTIC SLEEVE

Akro-Mils
Blue Thunder Technologies
Klockner Pentaplast
TricorBraun

LABELS, PRESSURE-SENSITIVE

Adhesives Research
Auto-Mate Technologies LLC
Blue Thunder Technologies
Contract Pharmaceutical Corp
Cortegra Group
GMP Labeling
Griffin-Rutgers Co
groninger USA LLC, Marketing
ITW ALMA
Kaps-All Packaging Systems
Keith Machinery Corp
Klockner Pentaplast
Label Mill
NJM Packaging, Powered by Pro Mach
Schreiner MediPharm
TricorBraun
Valley Forge Tape & Label Co
Weber Packaging Solutions
WHEATON

LABELS, SHIPPING

Alpha Packaging
Label Mill
SSE Technologies
Valley Forge Tape & Label Co
Weber Packaging Solutions

LABELS, SILK SCREEN-PRINTED

TricorBraun
Weber Packaging Solutions

For vendor contact information, see Company Directory section.

LABELS, TAMPER-EVIDENT

Auto-Mate Technologies LLC
Clinical Systems Contract
Pharmaceutical Corp
Cortegra Group
GMP Labeling
Kaps-All Packaging Systems
Klockner Pentaplast
Label Mill
NJM Packaging, Powered by Pro Mach
Schreiner MediPharm
SSE Technologies
TricorBraun
Valley Forge Tape & Label Co
Weber Packaging Solutions

LEAFLET INSERTING EQUIPMENT

Contract
Pharmaceutical Corp
Creative Automation
Daichi Jitsugyo (America), Pharmaceutical Div
DJS Enterprises
Efficient Automated Machine Corp
G&K-Vijuk Intl
HealthStar
IMA North America
Modular Packaging Systems
NJM Packaging, Powered by Pro Mach

LEAFLET OUTSERTING EQUIPMENT

Champion Trading Corp
Creative Automation
Daichi Jitsugyo (America), Pharmaceutical Div
DJS Enterprises
G&K-Vijuk Intl
Modular Packaging Systems
NJM Packaging, Powered by Pro Mach

LIQUID FILLERS, ABRASIVE PRODUCTS

Bausch Advanced Technologies
BellatRx
Cuzzoli Machine Co
DJS Enterprises
Filamatic, National Instrument LLC
groninger USA LLC, Marketing
HealthStar
IVEK Corp
Kaps-All Packaging Systems
Keith Machinery Corp
Oden Machinery
Optima Machinery Corp
OPTIMA pharma GmbH
Prodo-Pak Corp

LIQUID FILLERS, STERILIZATION-IN-PLACE

AWS Bio-Pharma Technologies
Cuzzoli Machine Co
Efficient Automated Machine Corp
Filamatic, National Instrument LLC
groninger USA LLC, Marketing
HealthStar
IMA North America

Keith Machinery Corp
Modular Packaging Systems
Oden Machinery
Optima Machinery Corp
OPTIMA pharma GmbH
Oyster USA
Oyster Bay Pump Works
Process Tek
Prodo-Pak Corp
Weiler Engineering

LIQUID FILLERS, SUSPENSIONS

Auto-Mate Technologies LLC
Cuzzoli Machine Co
DJS Enterprises
Efficient Automated Machine Corp
Filamatic, National Instrument LLC
groninger USA LLC, Marketing
HealthStar
Integrated Packaging Systems
IVEK Corp
Kaps-All Packaging Systems
Keith Machinery Corp
Oden Machinery
Optima Machinery Corp
Oyster Bay Pump Works
Prodo-Pak Corp
Weiler Engineering

MARKING EQUIPMENT, BOTTOM CODING

Bell-Mark
Bosch Packaging Technology, Pharma
Control Micro Systems
Dalemark Industries
DJS Enterprises
Gallus
Gottscho Printing Systems
Greydon
groninger USA LLC, Marketing
Kaps-All Packaging Systems
Keith Machinery Corp
Label Mill
Matthews Intl Corp, Matthews Marking Systems
Mettler Toledo PCE, Product Inspection
Videojet Technologies
Weber Packaging Solutions

MARKING EQUIPMENT, CYLINDRICAL CONTAINERS

Bell-Mark
Bosch Packaging Technology, Pharma
Control Micro Systems
Dalemark Industries
DJS Enterprises
ESS Technologies
Gottscho Printing Systems
Greydon
Griffin-Rutgers Co
groninger USA LLC, Marketing
Label Mill
Matthews Intl Corp, Matthews Marking Systems
Weber Packaging Solutions

MEDICAL DEVICES

Gerresheimer Buende GmbH, Gerresheimer Medical Systems

Uhlmann Packaging Systems LP

MEDICAL DEVICES MANUFACTURING

Gerresheimer Buende GmbH, Gerresheimer Medical Systems
Thermo Fisher Scientific, Materials and Structural Analysis
Uhlmann Packaging Systems LP

MOISTURE BARRIER PACKAGING MATERIAL

ATMI LifeSciences, Packaging Div Contract
Pharmaceutical Corp
DJS Enterprises
Klockner Pentaplast
TOLAS Healthcare Packaging
TOPAS Advanced Polymers
WL Gore & Assocs, Gore PharmBIO Products

OUTER PACKAGING LABELING/CODING EQUIP

ESS Technologies
G&K-Vijuk Intl
Griffin-Rutgers Co

OVERCAPPERS

Auto-Mate Technologies LLC
BellatRx
Cuzzoli Machine Co
DJS Enterprises
Filamatic, National Instrument LLC
groninger USA LLC, Marketing
HealthStar
Kaps-All Packaging Systems
New England Machinery
Optima Machinery Corp

OVERWRAPPING MACHINES

Bosch Packaging Technology, Pharma
DJS Enterprises
HealthStar
ILAPAK
IMA North America
Keith Machinery Corp
Lantech
MG America
Modular Packaging Systems
Ossid, Div Pro Mach

PACKAGING BOARDS

Zed Industries

PACKAGING MACHINES

ACG North America LLC
ATS Automation Tooling Systems
Batching Systems
BellatRx
Bosch Packaging Technology
Bosch Packaging Technology, Pharma
CapPlus Technologies
Chase-Logeman Corp Contract
Pharmaceutical Corp
Cuzzoli Machine Co

Creative Automation
Daichi Jitsugyo (America), Pharmaceutical Div
Dalton Electric Heating Co
DJS Enterprises
Efficient Automated Machine Corp
Filamatic, National Instrument LLC
groninger USA LLC, Marketing
HealthStar
ILAPAK
IMA North America
Integrated Packaging Systems
Kaps-All Packaging Systems
Key Intl
Lantech

MG America

Modular Packaging Systems
Molins
New England Machinery
NJM Packaging, Powered by Pro Mach
OK Sealer
Optima Machinery Corp
Ossid, Div Pro Mach
Oyster USA
Per-Fil Industries
Rennco LLC, Pro Mach
.....
Rommelag USA
303-674-8333
fax 303-670-2666
mail.romus@rommelag.com
www.rommelag.com
.....

Uhlmann Packaging Systems LP

Weiler Engineering
Zed Industries

PALLET COVERS, GMP

Blue Thunder Technologies
Edgeco
FabOhio

PALLETIZING AND DEPALLETIZING EQUIPMENT

American-Newlong
Biocair
Contract
Pharmaceutical Corp
Edgeco
Interthor
MG America
Oyster USA
Sproflow Systems
Uhlmann Packaging Systems LP
UniTech Industries

PALLETS

Biocair
Edgeco
MO Industries
Snyder Industries, Dry Handling & IBC Div

PAPER, FOIL, FILM LAMINATIONS

Admiral Packaging
Constantia Flexibles
KNF Corp
Oliver Healthcare Packaging
Sonic Packaging Industries
Tekni-Plex
TOLAS Healthcare Packaging

PFA BOTTLES Savillex Corp

PLASTIC FOR THERMOFORMED PACKAGING

Barger Packaging, Placon Corp
Constantia Flexibles
Klockner Pentaplast
Tekni-Plex
TOPAS Advanced
Polymers
Zed Industries

PLASTIC SHEETING

Advanced Scientific
ATMI LifeSciences, Packaging Div
Klockner Pentaplast
KNF Corp
Plastic Supply of PA
Tekni-Plex
TRAX Industrial
Curtains

POUCHES, CELLOPHANE

Prodo-Pak Corp
Wrapade Packaging Systems

POUCHES, FOIL

Advanced Scientific
ATMI LifeSciences, Packaging Div
Cortegra Group
Glenroy
KNF Corp
Oliver Healthcare
Packaging
Oystar USA
Prodo-Pak Corp
Sonic Packaging
Industries
TOLAS Healthcare
Packaging
Wrapade Packaging
Systems

POUCHES, MYLAR

General Econopak
KNF Corp
Oliver Healthcare
Packaging
Prodo-Pak Corp
Sonic Packaging
Industries
TOLAS Healthcare
Packaging
Wrapade Packaging
Systems

POUCHES, PAPER

General Econopak
KNF Corp
Oliver Healthcare
Packaging
Prodo-Pak Corp
Sonic Packaging
Industries
TOLAS Healthcare
Packaging
Wrapade Packaging
Systems

POUCHES, RECLOSABLE

Admiral Packaging
Edgeco
KNF Corp
Prodo-Pak Corp
Sonic Packaging
Industries

POUCHES, TYVEK

ATMI LifeSciences, Packaging Div
General Econopak
KNF Corp
Oliver Healthcare
Packaging

TOLAS Healthcare
Packaging
Wrapade Packaging
Systems

POWDER FILLERS

Bausch Advanced
Technologies
BellatRx
Bosch Packaging
Technology, Pharma
CapPlus Technologies
Cozzoli Machine Co
Daiichi Jitsugyo
(America),
Pharmaceutical Div
DJS Enterprises
HealthStar
IMA North America
Keith Machinery Corp
Key Intl

MG America

Molins
NJM Packaging,
Powered by Pro Mach
Optima Machinery Corp
Per-Fil Industries
Prodo-Pak Corp
Romaco North
American
Spee-Dee Packaging
Machinery
Wipotec North America
Wrapade Packaging
Systems

POWDER RECOVERY SYSTEMS

AZO
DJS Enterprises
Evaporator Dryer
Technologies
F.P.S. Food and Pharma
Systems srl
ILC Dover
Nash, by Gardner
Denver
Vac-U-Max

PREFILLED SYRINGES

Daiichi Jitsugyo
(America),
Pharmaceutical Div
Gerresheimer Buende
GmbH, Gerresheimer
Medical Systems
Uhlmann Packaging
Systems LP

PRESSURE-SENSITIVE TAPE

Adhesives Research
Blue Thunder
Technologies
ITW ALMA

PRESSURE-SENSITIVE TAPE, STERILE

Adhesives Research
Blue Thunder
Technologies
HealthStar

PRIMARY PACKAGING GLASS

Gerresheimer AG,
Communication
Gerresheimer Buende
GmbH, Gerresheimer
Medical Systems
Uhlmann Packaging
Systems LP

PRIMARY PACKAGING PLASTICS

Comar
Gerresheimer AG,
Communication

Gerresheimer Buende
GmbH, Gerresheimer
Medical Systems
TOPAS Advanced
Polymers
Uhlmann Packaging
Systems LP

PRINTING EQUIPMENT

AC Compacting LLC
Bell-Mark
Blue Thunder
Technologies
Control Micro Systems
Daiichi Jitsugyo
(America),
Pharmaceutical Div
Dalemark Industries
DJS Enterprises
Gallus
Gottscho Printing
Systems
Greydon
Griffin-Rutgers Co
Hapa & Laetus
HealthStar
Label Mill
Matthews Intl Corp,
Matthews Marking
Systems
Omega Design Corp
Veltek Assocs
Weber Packaging
Solutions

RFID (RADIO FREQUENCY IDENTIFICATION)

AdvantaPure
Automated Control
Concepts
Biocair
Blue Thunder
Technologies
Cortegra Group
Griffin-Rutgers Co
InkSure Technologies
NJM Packaging,
Powered by Pro Mach
Veltek Assocs
Weber Packaging
Solutions

ROLLSTOCK, COATED FILM

Adhesives Research
Admiral Packaging
Klockner Pentaplast
Mylan Technologies
Oliver Healthcare
Packaging
Sonic Packaging
Industries
TOLAS Healthcare
Packaging

ROLLSTOCK, COATED PAPER

Admiral Packaging
Cortegra Group
Mylan Technologies
Oliver Healthcare
Packaging
TOLAS Healthcare
Packaging

SEALING EQUIPMENT, ULTRASONIC

DJS Enterprises
Optima Machinery Corp
Seal Master Corp
Zed Industries

SEALS, HEAT-SHRINKABLE

Klockner Pentaplast

SEALS, TAMPER-EVIDENT

Auto-Mate
Technologies LLC
Cortegra Group
Edgeco
Enercon Industries Corp
Helvoet Pharma
Kaps-All Packaging
Systems
Klockner Pentaplast
Rommelay USA
Schreiner MediPharm
West Pharmaceutical
Services
Wrapade Packaging
Systems
Zed Industries

SECURITY, BRAND PROTECTION

Cortegra Group
CustomVault
InkSure Technologies
Omega Design Corp
TruTag Technologies

SHRINK PACKAGING EQUIPMENT

DJS Enterprises
Douglas Machine
HealthStar
Keith Machinery Corp
Lantech
NJM Packaging,
Powered by Pro Mach
Omega Design Corp
Rennco LLC, Pro Mach
Romaco North
American

STERILE PACKAGING COMPONENTS

Advanced Scientific
American Stelmi Corp
ATMI LifeSciences,
Packaging Div
Barger Packaging,
Placon Corp
Constantia Flexibles
Cozzoli Machine Co
Gerresheimer Buende
GmbH, Gerresheimer
Medical Systems
GMP Systems
Helvoet Pharma
Hutchins & Hutchins,
Cleanroom Equipment
/ Supply Distributor
ILC Dover
Process Tek
West Pharmaceutical
Wheaton Industries,
Wheaton Science
Packaging
WL Gore & Assocs,
Gore PharmBIO
Products

STERILE PACKAGING, DRY PRODUCTS

American Stelmi Corp
ATMI LifeSciences,
Packaging Div
Barger Packaging,
Placon Corp
Cozzoli Machine Co
GMP Systems
Helvoet Pharma
Hosokawa Micron
Powder Systems
ILC Dover
KNF Corp
Oystar USA
Process Tek
Prodo-Pak Corp
Wheaton Industries,
Wheaton Science
Packaging

STERILE PACKAGING, LIQUIDS

Advanced Scientific
American Stelmi Corp
ATMI LifeSciences,
Packaging Div
Bausch+Stroebel
Machine Co
Bosch Packaging
Technology, Pharma
Chase-Logeman Corp
Cozzoli Machine Co
Daiichi Jitsugyo
(America),
Pharmaceutical Div
Efficient Automated
Machine Corp
Filamatic, National
Instrument LLC
Gerresheimer Buende
GmbH, Gerresheimer
Medical Systems
GMP Systems
groninger USA LLC,
Marketing
HealthStar
Helvoet Pharma
IMA North America
Integrated Packaging
Systems
Lonza
Oden Machinery
Optima Machinery Corp
OPTIMA pharma GmbH
Oystar USA
Process Tek
Prodo-Pak Corp
Robert Bosch Packaging
Technology, Inspection
Technology Pharma

Rommelay USA

303-674-8333
fax 303-670-2666
mail.romus@rommelag.com
www.rommelag.com
Weiler Engineering
Wheaton Industries,
Wheaton Science
Packaging

STERILE PACKAGING, OINTMENTS AND CREAMS

ATMI LifeSciences,
Packaging Div
Cozzoli Machine Co
Filamatic, National
Instrument LLC
GMP Systems
groninger USA LLC,
Marketing
Oden Machinery
Optima Machinery Corp
Oystar USA
Process Tek
Prodo-Pak Corp

Rommelay USA

303-674-8333
fax 303-670-2666
mail.romus@rommelag.com
www.rommelag.com

STOPPER STERILIZING EQUIPMENT

ATMI LifeSciences,
Packaging Div
AWS Bio-Pharma
Technologies
Belimed, Scientific Div
Bosch Packaging
Technology, Pharma
Cozzoli Machine Co
ESS Technologies
ETC, Sterilization
Systems

Getinge USA,
Life Science
HealthStar
Nicos Group
Optima Machinery Corp
Process Tek
Sani-Matic
SBM Schoeller-
Bleckmann
Medizintechnik, A
Bosch Packaging
Technology Company
Victor Intl Mktg

STOPPER WASHING EQUIPMENT

Bosch Packaging
Technology, Pharma
Cozzoli Machine Co
ETC, Sterilization
Systems
Getinge USA,
Life Science
HealthStar
Lancer USA
Nicos Group
Optima Machinery Corp
Sani-Matic
Victor Intl Mktg

STOPPERS, BUTYL

American Stelmi Corp
Helvoet Pharma
J.G. Finneran Assocs
West Pharmaceutical
Services
Wheaton Industries,
Wheaton Science
Packaging

STRETCH BANDING MACHINES

Capmatic Ltd
DJS Enterprises
HealthStar
IMA North America
Keith Machinery Corp
Lantech
NJM Packaging,
Powered by Pro Mach
Romaco North
American
Uhlmann Packaging
Systems LP

STRIP PACKAGING

Contract
Pharmalac Corp
DJS Enterprises
Keith Machinery Corp
MG America
Molins
Prodo-Pak Corp
Rommelay USA
Sonic Packaging
Industries
Zed Industries

SYRINGE ASSEMBLY EQUIPMENT

Bausch Advanced
Technologies
Bausch+Stroebel
Machine Co
Bosch Packaging
Technology, Pharma
Cozzoli Machine Co
Daiichi Jitsugyo
(America),
Pharmaceutical Div
Efficient Automated
Machine Corp
groninger USA LLC,
Marketing
MagneMotion
MG America
Optima Machinery Corp
Robert Bosch Packaging
Technology, Inspection
Technology Pharma

For vendor contact information, see Company Directory section.

SYRINGE FILLING EQUIPMENT

Bausch Advanced Technologies
Bausch+Stroebel Machine Co
Bosch Packaging Technology, Pharma
Capmatic Ltd
Cozzoli Machine Co
Daiichi Jitsugyo (America), Pharmaceutical Div
DJS Enterprises
Efficient Automated Machine Corp
ESCO Technologies
Filamatic, National Instrument LLC
FP Developments
groninger USA LLC, Marketing
HealthStar
IVEK Corp
MagneMotion
MG America
Nicos Group
Oden Machinery
Optima Machinery Corp
OPTIMA pharma GmbH
Oyster Bay Pump Works
Pall Life Sciences, Biopharmaceuticals
Prodo-Pak Corp
Rommelag USA

SYRINGE PRINTING EQUIPMENT

AC Compacting LLC
Bausch+Stroebel Machine Co
Control Micro Systems
Dalemark Industries
DJS Enterprises
groninger USA LLC, Marketing
Matthews Intl Corp, Matthews Marking Systems
Optima Machinery Corp
Prodo-Pak Corp

SYRINGES (AS PACKAGING MATERIAL)

American Stelmi Corp
Bausch+Stroebel Machine Co
Comar
DJS Enterprises
Gerresheimer AG, Communication
Gerresheimer Buende GmbH, Gerresheimer Medical Systems
groninger USA LLC, Marketing
Kimble Chase, Life Sciences & Research
TOPAS Advanced Polymers

SYRINGES, NON-STERILE, PREFILLABLE

Bausch+Stroebel Machine Co
Cozzoli Machine Co
Gerresheimer AG, Communication
Gerresheimer Buende GmbH, Gerresheimer Medical Systems
groninger USA LLC, Marketing
OPTIMA pharma GmbH
TOPAS Advanced Polymers

SYRINGES, STERILE, PREFILLABLE

Bausch+Stroebel Machine Co
Cozzoli Machine Co

Gerresheimer AG, Communication
Gerresheimer Buende GmbH, Gerresheimer Medical Systems
groninger USA LLC, Marketing
OPTIMA pharma GmbH
TOPAS Advanced Polymers

TABLET COUNTING MACHINES

ACG North America LLC
Batching Systems
BellatRx
Capmatic Ltd
CapPlus Technologies
Daiichi Jitsugyo (America), Pharmaceutical Div
DJS Enterprises
IVEK Corp
HealthStar
IMA North America
Integrated Packaging Systems
Keith Machinery Corp
Key Intl
Modular Packaging Systems
NJM Packaging, Powered by Pro Mach
Prodo-Pak Corp

TABLET PRINTING SYSTEMS

AC Compacting LLC
Ackley Machine Corp
CapPlus Technologies
Control Micro Systems
Daiichi Jitsugyo (America), Pharmaceutical Div
DJS Enterprises
Keith Machinery Corp
Key Intl
Matthews Intl Corp, Matthews Marking Systems

TAMPER-EVIDENT PACKAGING

Adhesives Research
Auto-Mate Technologies LLC
Barger Packaging, Placon Corp
Capmatic Ltd
CapPlus Technologies
Comar
Constantia Flexibles
Cortegra Group
DJS Enterprises
Enercon Industries Corp
Gallus
Gerresheimer AG, Communication
Globe Scientific
Griffin-Rutgers Co
HealthStar
Helvoet Pharma
IMA North America
Kaps-All Packaging Systems
Mettler Toledo PCE, Product Inspection
MG America
Newman Labeling Systems
NJM Packaging, Powered by Pro Mach
O.Berk Co, Healthcare Packaging Group
Rommelag USA
303-674-8333
fax 303-670-2666
mail.romus@rommelag.com
www.rommelag.com
Schreiner MediPharm
Tekni-Plex

TricorBraun
Wrapade Packaging Systems

TEMPERATURE CONTROL CONTAINERS

Biocair
Custom Heat LLC
TCP Reliable

THERMOFORMED BLISTERS OR TRAYS

Barger Packaging, Placon Corp
CapPlus Technologies
Constantia Flexibles
Howell Packaging
Hurst Corp
Klockner Pentaplast
MG America
Modular Packaging Systems
Molins
Sonic Packaging Industries
TCP Reliable
Tekni-Plex
TOPAS Advanced Polymers
Zed Industries

TORQUE TESTER

ASG, Jergens
Atlantic Scale Co
Auto-Mate Technologies LLC
Blue Thunder Technologies
Capmatic Ltd
Kaps-All Packaging Systems
NJM Packaging, Powered by Pro Mach
Pharmatron
Process Tek

TRANSFER TAPES

Adhesives Research

TRAYS, PLASTIC, AUTOCLAVABLE

Barger Packaging, Placon Corp
Bel-Art Products
Chase-Logeman Corp
Edgeco
General Lab & Cleanroom Supply, dba General Lab Supply
Hurst Corp
Molded Fiber Glass Tray Co
Remcon Plastics
TOPAS Advanced Polymers
WL Gore & Assocs, Gore PharmBIO Products

TRAYS, STERILE STAINLESS STEEL

Chase-Logeman Corp
Cozzoli Machine Co
Flanders Corp, Containment Products
FP Developments
Garvey Corp
groninger USA LLC, Marketing
Hurst Corp
Isolation Systems
MO Industries
Pink GmbH
Thermosysteme

TRAYS, VIAL AND AMPUL

Barger Packaging, Placon Corp

Bosch Packaging Technology, Pharma
Chase-Logeman Corp
Cozzoli Machine Co
FP Developments
Garvey Corp
Hurst Corp
MO Industries
Molded Fiber Glass Tray Co

TUBE FILLING AND CRIMPING MACHINES, METAL TUBES

Bausch Advanced Technologies
Bosch Packaging Technology, Pharma
CroPharm
Daiichi Jitsugyo (America), Pharmaceutical Div
DJS Enterprises
HealthStar
IMA North America
Keith Machinery Corp
Key Intl
Prodo-Pak Corp

TUBE FILLING AND SEALING EQUIPMENT, PLASTIC TUBES

AdvantaPure
CroPharm
Daiichi Jitsugyo (America), Pharmaceutical Div
DJS Enterprises
HealthStar
IKA Works
Keith Machinery Corp
Key Intl
Oyster USA
Prodo-Pak Corp
Romaco North American

TUBE PRINTING EQUIPMENT

Control Micro Systems
DJS Enterprises
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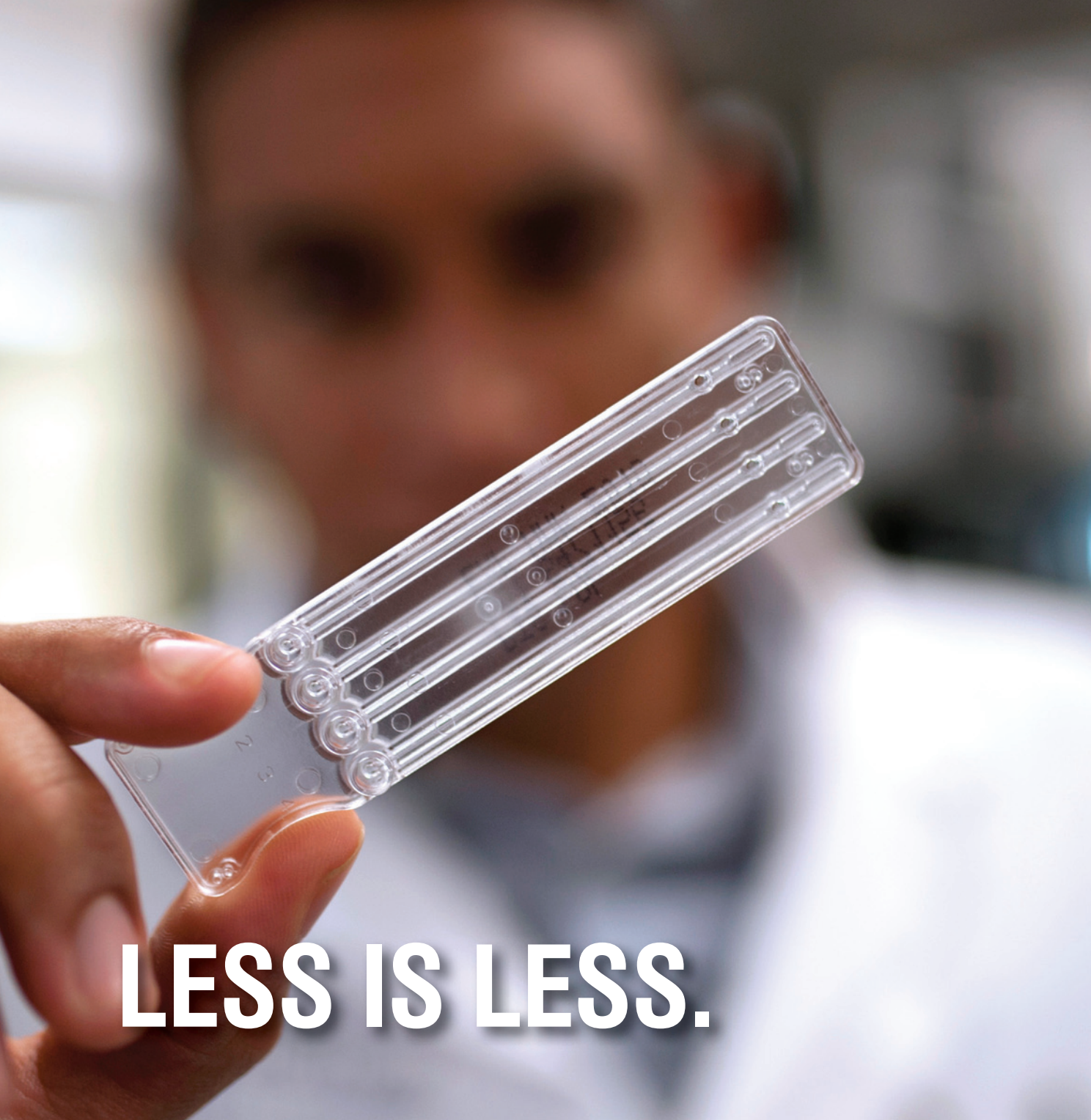
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Perkin Elmer Corp,
Environmental Health
Sci-Con
Shimadzu Scientific
Instruments
SSI/LabAlliance
VWR Intl LLC
Wyatt Technology

**CHROMATOGRAPHY,
HPLC INTEGRATORS
MONITORS**

MicroSolv
Technology Corp
Perkin Elmer Corp,
Environmental Health
Sci-Con
Shimadzu Scientific
Instruments
SSI/LabAlliance
VWR Intl LLC

**CHROMATOGRAPHY,
HPLC PROCESS
MONITORS**

Novasep
VWR Intl LLC

**CHROMATOGRAPHY,
HPLC PUMPS**

General Lab &
Cleanroom Supply,
dba General Lab
Supply
Hamilton Co,
Process Analytics
IET | Intl Equipment
Trading Ltd
JM Science
LEAP Technologies
Perkin Elmer Corp,
Environmental Health
Sci-Con
Shimadzu Scientific
Instruments
SSI/LabAlliance
VWR Intl LLC
Waters Corp,
Waters Div

**CHROMATOGRAPHY,
HPLC SAMPLE
INJECTORS**

General Lab &
Cleanroom Supply,
dba General Lab
Supply
LEAP Technologies
MicroSolv
Technology Corp
PDR-Separations
Perkin Elmer Corp,
Environmental Health
Sci-Con
Shimadzu Scientific
Instruments
SSI/LabAlliance
VWR Intl LLC
Waters Corp,
Waters Div

**CHROMATOGRAPHY,
HPLC SWITCHING
VALVES**

Hamilton Co,
Process Analytics
JM Science
PDR-Separations
Perkin Elmer Corp,
Environmental Health
Sci-Con
VWR Intl LLC
Waters Corp,
Waters Div

**CHROMATOGRAPHY,
ION
CHROMATOGRAPHY
COLUMNS**

EMD Millipore, A Div
of Merck KGaA
Darmstadt Germany
ES Industries

General Lab &
Cleanroom Supply,
dba General Lab
Supply
Hamilton Co,
Process Analytics
IET | Intl Equipment
Trading Ltd
Novasep
Pall Corp,
Life Sciences Group
SSI/LabAlliance
VWR Intl LLC

**CHROMATOGRAPHY,
ION
CHROMATOGRAPHY
DETECTORS**

IET | Intl Equipment
Trading Ltd
JM Science
SSI/LabAlliance
VWR Intl LLC

**CHROMATOGRAPHY,
ION
CHROMATOGRAPHY
PUMPS**

Hamilton Co,
Process Analytics
IET | Intl Equipment
Trading Ltd
SSI/LabAlliance
VWR Intl LLC

**CHROMATOGRAPHY,
ION-EXCHANGE
MEDIA**

General Lab &
Cleanroom Supply,
dba General Lab
Supply
Novasep
Pall Corp,
Life Sciences Group
Pall Life Sciences,
Biopharmaceuticals
Phenomex
VWR Intl LLC

**CHROMATOGRAPHY,
LC**

Agilent Technologies
Biotage
Bruker, Daltonics
Chiral Technologies
EMD Millipore, A Div
of Merck KGaA
Darmstadt Germany
ES Industries
Hamilton Co,
Process Analytics
IET | Intl Equipment
Trading Ltd
J.G. Finneran Assocs
MicroSolv
Technology Corp
Molex, LLC - Polymicro
Technologies™
Novasep
Perkin Elmer Corp,
Environmental Health
Phenomex
PJ Cobert Assocs
Restek Corp
Sci-Con
Shimadzu Scientific
Instruments
SSI/LabAlliance
VWR Intl LLC
Waters Corp,
Waters Div
WHEATON

**CHROMATOGRAPHY,
LC DETECTORS**

Agilent Technologies
IET | Intl Equipment
Trading Ltd
PDR-Separations
Perkin Elmer Corp,
Environmental Health
Sci-Con
Shimadzu Scientific
Instruments

SSI/LabAlliance
VWR Intl LLC
Waters Corp,
Waters Div
Wyatt Technology

**CHROMATOGRAPHY,
LC PUMPS**

Hamilton Co,
Process Analytics
IET | Intl Equipment
Trading Ltd
LEAP Technologies
Perkin Elmer Corp,
Environmental Health
Sci-Con
Shimadzu Scientific
Instruments
SSI/LabAlliance
VWR Intl LLC
Waters Corp,
Waters Div

**CHROMATOGRAPHY,
LC/MS**

Agilent Technologies
Bruker, Daltonics
Chiral Technologies
ES Industries
Hamilton Co,
Process Analytics
IET | Intl Equipment
Trading Ltd
J.G. Finneran Assocs
MicroSolv
Technology Corp
Molex, LLC - Polymicro
Technologies™
Perkin Elmer Corp,
Environmental Health
Phenomex
Restek Corp
Shimadzu Scientific
Instruments
SSI/LabAlliance
VWR Intl LLC
Waters Corp,
Waters Div
WHEATON

**CHROMATOGRAPHY,
PAPER
CHROMATOGRAPHS**

Advanced Synthesis,
Chemical Div
ES Industries
General Lab &
Cleanroom Supply,
dba General Lab
Supply
VWR Intl LLC

**CHROMATOGRAPHY,
SFC**

Chiral Technologies
ES Industries
Novasep
Phenomex
Sci-Con
Shimadzu Scientific
Instruments
SSI/LabAlliance
Thar Process
VWR Intl LLC
Waters Corp,
Waters Div

**CHROMATOGRAPHY,
SFC COLUMNS**

Advanced Synthesis,
Chemical Div
Chiral Technologies
ES Industries
Novasep
Phenomex
Shimadzu Scientific
Instruments
Thar Process
VWR Intl LLC
Waters Corp,
Waters Div

**CHROMATOGRAPHY,
SFC PROCESS
MONITORS**

Novasep
VWR Intl LLC

**CHROMATOGRAPHY,
SIMULATED MOVING
BED**

Novasep
VWR Intl LLC

**CHROMATOGRAPHY,
SIZE EXCLUSION**

Agilent Technologies
Brookhaven
Instruments Corp
ES Industries
Malvern Instruments
MicroSolv
Technology Corp
Pall Corp,
Life Sciences Group
Pall Life Sciences,
Biopharmaceuticals
Phenomex
Shimadzu Scientific
Instruments
VWR Intl LLC
Waters Corp,
Waters Div
Wyatt Technology

**CHROMATOGRAPHY,
THIN-LAYER
SYSTEMS AND
SUPPLIES**

Advanced Synthesis,
Chemical Div
Chiral Technologies
Cole-Parmer
EMD Millipore, A Div
of Merck KGaA
Darmstadt Germany
Kimble Chase, Life
Sciences & Research
VWR Intl LLC

**CHROMATOGRAPHY,
VERY HIGH
PERFORMANCE**

Agilent Technologies
ES Industries
MicroSolv
Technology Corp
Phenomex
Restek Corp
Shimadzu Scientific
Instruments
SSI/LabAlliance
VWR Intl LLC
Waters Corp,
Waters Div

**COAGULATION
(BLOOD) ANALYZER**

BD Diagnostics
LT Industries
VWR Intl LLC

**COAGULATION
(BLOOD) REAGENTS
AND CONTROLS**

BD Diagnostics
VWR Intl LLC

COLONY COUNTERS

AES-Chemunex
Bel-Art Products
General Lab &
Cleanroom Supply,
dba General Lab
Supply
VWR Intl LLC

COLORIMETERS

Bel-Art Products
General Lab &
Cleanroom Supply,
dba General Lab
Supply

Gigahertz-Optik
GmbH, Development
and Production of
measurement devices
for optical radiation
HunterLab
Konica Minolta Sensing
Americas
VWR Intl LLC

**CONDUCTIVITY
METERS**

Blue Thunder
Technologies
Cole-Parmer
General Lab &
Cleanroom Supply,
dba General Lab
Supply
VWR Intl LLC
Yokogawa Corp
of America

**CONSTANT
TEMPERATURE
CHAMBERS**

Bahnon Environmental
Specialties,
An EMCOR Co
CARON Products
Services
GE Sensing &
Inspection
Technologies
General Lab &
Cleanroom Supply,
dba General Lab
Supply
IKA Works
Isolation Systems
Powers Scientific
TCP Reliable
VWR Intl LLC

**CONSTANT
TEMPERATURE
CIRCULATORS**

CARON Products
Services
Chemical Transfer
Partnership Corp,
(CTP Corp)
GE Sensing &
Inspection
Technologies
General Lab &
Cleanroom Supply,
dba General Lab
Supply
IKA Works
Julabo USA
VWR Intl LLC

**CONSTANT
TEMPERATURE
WATER BATHS**

Beamex
CARON Products
Services
Chemical Transfer
Partnership Corp,
(CTP Corp)
Eppendorf
General Lab &
Cleanroom Supply,
dba General Lab
Supply
Gilsen Co
IKA Works
Julabo USA
VWR Intl LLC

**CONTAINER
LEAK DETECTION
EQUIPMENT**

AWS Bio-Pharma
Technologies
Mil-Ram Technology
Process Tek
Seal Master Corp
Seidenader Equipment
Victor Intl Mktg

**CONTENT
UNIFORMITY
TESTERS,
AUTOMATED**
ABB Measurement &
Analytics
LT Industries

**CONTROLLERS,
PRESSURE**

Beamex
Festo Corp
Honeywell, Industrial
Measurement &
Controls Div
Parker Hannifin Corp
Pyrometer Instrument
Co, PMA Process
Control Div
Siemens Building
Technologies
Siemens Process
Industries + Drives
VWR Intl LLC

**CONTROLS,
FREEZE-DRYING**

Millrock Technology
Siemens Process
Industries + Drives
TMI USA
VWR Intl LLC

**CONTROLS,
SENSING AND
SWITCHING**

Automated Control
Concepts
Automation Products
Chromalox
Custom Heat LLC
Festo Corp
FSI Technologies
ICONICS
IFM Efactor
Isolation Systems
Rockwell Automation
Siemens Process
Industries + Drives
Uehling Instrument Co
VWR Intl LLC

**CONTROLS,
TEMPERATURE**

Atlantic Scale Co
Automated Control
Concepts
Carel USA LLC
Chromalox
Custom Heat LLC
Durex Industries
Eppendorf
Hampshire Controls Corp
ICONICS
IKA Works
Isolation Systems
Mokon
Pyrometer Instrument
Co, PMA Process
Control Div
Rockwell Automation
Siemens Building
Technologies
Siemens Process
Industries + Drives
TMI USA
VWR Intl LLC
Yokogawa Corp
of America

CONTROLS, TIMING

FSI Technologies
ICONICS
IKA Works
Isolation Systems
Siemens Process
Industries + Drives
VWR Intl LLC

COOLING DEVICES

BioSpec Products
Isolation Systems
Julabo USA
Mokon
VWR Intl LLC

COUNTERS, BACTERIOLOGICAL

AES-Chemunex
BD Diagnostics
Pall Life Sciences,
Biopharmaceuticals
VWR Intl LLC

COUNTERS, LIQUID SCINTILLATION

VWR Intl LLC

COUNTERS, PARTICLE

Biotest Diagnostics Corp
Blue Thunder Technologies
Climet Instruments Co
EMD Millipore, A Div of Merck KGaA Darmstadt Germany
Fluid Imaging Technologies
General Lab & Cleanroom Supply, dba General Lab Supply
Kanomax USA
Micro Measurement Labs
Micromeritics Instrument Corp
VWR Intl LLC

COUNTING DEVICES

ACR Systems
Atlantic Scale Co
Bel-Art Products
BellatRx
DJS Enterprises
EMD Millipore, A Div of Merck KGaA Darmstadt Germany
FSI Technologies
VWR Intl LLC
Yokogawa Corp of America

COUNTING SYSTEMS

BellatRx
DJS Enterprises
FSI Technologies
SSE Technologies
VWR Intl LLC

CRUSH STRENGTH ANALYZERS

AC Compacting LLC

CULTURE APPARATUS, ANAEROBIC

BD Diagnostics
Biopetech
VWR Intl LLC

CULTURE APPARATUS, BACTERIOLOGICAL

BD Diagnostics
Eppendorf
Labconco Corp
VWR Intl LLC

CULTURE APPARATUS, CULTURE COLLECTION SYSTEMS

BD Diagnostics
Biotest Diagnostics Corp
VWR Intl LLC

CULTURE APPARATUS, CULTURE GROWTH MEDIA AND ACCESSORIES

BD Diagnostics
Biopetech
Biotest Diagnostics Corp

EMD Millipore, A Div of Merck KGaA Darmstadt Germany
Glen Mills
VWR Intl LLC
Wheaton Industries,
Wheaton Science Packaging

DATA LOGGING EQUIPMENT

ACR Systems
ATAGO USA
Automated Control Concepts
Carltext
Cole-Parmer
Getinge USA, Life Science
Gilson Co
Goyen Valve LLC, Pentair Environmental Systems
Hampshire Controls Corp
Honeywell, Industrial Measurement & Controls Div
ICONICS
IKA Works
Marathon Products
Rockwell Automation
Rotronic
Sensitech
Siemens Process Industries + Drives
SSE Technologies
Status Instruments
Testo
TMI USA
Vaisala
VWR Intl LLC
Yokogawa Corp of America

DATA-ACQUISITION EQUIPMENT

Advantest America
Automated Control Concepts
Bruker AXS
Caliper Life Sciences
Carltext
GE Sensing & Inspection Technologies
Getinge USA, Life Science
Goyen Valve LLC, Pentair Environmental Systems
Honeywell, Industrial Measurement & Controls Div
ICONICS
IKA Works
Marathon Products
Rockwell Automation
Sensitech
Siemens Process Industries + Drives
Status Instruments
Testo
TMI USA
Vaisala
Yokogawa Corp of America

DENSITOMETERS

Anton PAAR USA
Cannon Instrument Co
VWR Intl LLC

DENSITY MEASURING EQUIPMENT

ABB Measurement & Analytics
Anton PAAR USA
Automation Products
Control Instruments Corp
Hosokawa Micron Powder Systems
Krohne

Micromeritics Instrument Corp
Particle Technology Labs
Quantachrome Instruments
Yokogawa Corp of America

DETECTORS, DIODE-ARRAY

First Sensor
Gigahertz-Optik GmbH, Development and Production of measurement devices for optical radiation
PDR-Separations
Pion
Robert Bosch Packaging Technology, Inspection Technology
Pharma
Sci-Con
Shimadzu Scientific Instruments
Waters Corp, Waters Div

DETECTORS, ELECTROCHEMICAL

ENMET
Goyen Valve LLC, Pentair Environmental Systems
MEECO
Mil-Ram Technology
Neutronics
Sci-Con
Sensor Electronics Corp
Shimadzu Scientific Instruments

DETECTORS, ELECTRON CAPTURE

Control Instruments Corp
EDAX, Materials Analysis Div
First Sensor
Restek Corp
Sci-Con
Shimadzu Scientific Instruments

DETECTORS, EVAPORATIVE LIGHT-SCATTERING

First Sensor
Goyen Valve LLC, Pentair Environmental Systems
Shimadzu Scientific Instruments
Waters Corp, Waters Div

DETECTORS, FLAME IONIZATION

First Sensor
Mil-Ram Technology
Restek Corp
Sci-Con
Shimadzu Scientific Instruments

DETECTORS, FLUORESCENCE

BioTek Instruments
Control Instruments Corp
EDAX, Materials Analysis Div
First Sensor
Goyen Valve LLC, Pentair Environmental Systems
HORIBA Scientific
LEAP Technologies
Perkin Elmer Corp, Environmental Health Sci-Con

Shimadzu Scientific Instruments
VWR Intl LLC
Waters Corp, Waters Div

DETECTORS, GAMMA RADIATION

First Sensor

DETECTORS, IR

ABB Measurement & Analytics
ENMET
First Sensor
Key Intl
Mendel Co
Mil-Ram Technology
Neutronics
Perkin Elmer Corp, Environmental Health
Sci-Con
Sciotech
Sensor Electronics Corp

DETECTORS, LASER-INDUCED FLUORESCENCE

First Sensor
Sciotech

DETECTORS, THERMAL CONDUCTIVITY

Goyen Valve LLC, Pentair Environmental Systems
Perkin Elmer Corp, Environmental Health
Restek Corp
Sci-Con
Shimadzu Scientific Instruments
VWR Intl LLC

DETECTORS, UV

BioTek Instruments
Eppendorf
First Sensor
Gigahertz-Optik GmbH, Development and Production of measurement devices for optical radiation
Goyen Valve LLC, Pentair Environmental Systems
HORIBA Scientific
Perkin Elmer Corp, Environmental Health
Pion
Sci-Con
Sciotech
Shimadzu Scientific Instruments
VWR Intl LLC
Waters Corp, Waters Div

DIALYSIS MEMBRANES

Bel-Art Products

DIFFERENTIAL SCANNING CALORIMETERS

Particle Technology Labs
Perkin Elmer Corp, Environmental Health
Shimadzu Scientific Instruments
VWR Intl LLC

DIFFERENTIAL THERMAL ANALYSIS MEASUREMENT INSTRUMENTS

Goyen Valve LLC, Pentair Environmental Systems
Particle Technology Labs

Perkin Elmer Corp, Environmental Health
Shimadzu Scientific Instruments
Testo
Vaisala
VWR Intl LLC

DIFFUSION CELL APPARATUS

Copley Scientific Ltd, Sls Dept
VWR Intl LLC

DIGITAL RATE INDICATOR/TOTALIZERS

FSI Technologies

DILUTORS/DISPENSERS

Filamant, National Instrument LLC

Fluid Metering

Hamilton Co, Process Analytics
Millrock Technology
Oyster Bay Pump Works
VWR Intl LLC

DISINTEGRATION TESTERS

Copley Scientific Ltd, Sls Dept
Distek
Natoli Engineering Co
Pharmatron

DISSOLUTION ANALYSIS EQUIPMENT

Copley Scientific Ltd, Sls Dept
Distek
LEAP Technologies
Pharmatron
Pion
Quality Lab Accessories

DISSOLVED OXYGEN DETERMINATORS

Goyen Valve LLC, Pentair Environmental Systems
Hamilton Co, Process Analytics
IKA Works
VWR Intl LLC

DISTILLATION

3V TECH USA
Chem Flowtronics
Chemical Transfer Partnership Corp, (CTP Corp)
IKA Works
NexGen Enviro Systems
Uhlmann Packaging Systems LP

DISTILLATION EQUIPMENT

3V TECH USA
AWS Bio-Pharma Technologies
BÜCHI Labortechnik AG
Chemical Transfer Partnership Corp, (CTP Corp)
De Dietrich Process Systems
DJS Enterprises
GEA Process Engineering, GEA Pharma Systems
General Lab & Cleanroom Supply, dba General Lab Supply
Hosokawa Micron Powder Systems
Jaygo
Labconco Corp
McGill AirPressure LLC
Milestone
Pink GmbH
Thermosysteme
Servolift
SP Scientific - HULL/VIRTIS/FTS
Telstar North America
VWR Intl LLC

NexGen Enviro Systems
Pope Scientific
Telstar North America
VWR Intl LLC

DRYERS (SEE ALSO MANUFACTURING EQUIPMENT AND SUPPLIES SECTION)

3V TECH USA
Charles Ross & Son Co
Chem Flowtronics
Crown Iron Works Co, Specialty Extraction
Evaporator Dryer Technologies
Freund-Vector Corp
GEA Process Engineering, GEA Pharma Systems
Glen Mills
McGill AirPressure LLC
SP Scientific - HULL/VIRTIS/FTS
Telstar North America
VWR Intl LLC
Werner Mathis USA, North America

DRYERS, GLASSWARE

Bel-Art Products
Belimed, Scientific Div
De Dietrich Process Systems
DJS Enterprises
General Lab & Cleanroom Supply, dba General Lab Supply
Getinge USA, Life Science
Girton Mfg Co, Pharmaceutical Div
Globe Scientific
Labconco Corp
Lancer USA
Miele, Professional Products Div
Sani-Matic
Verder Scientific, North America
VWR Intl LLC

DRYERS, VACUUM

3V TECH USA
AZO
BÜCHI Labortechnik AG
Charles Ross & Son Co
Chemical Transfer Partnership Corp, (CTP Corp)
De Dietrich Process Systems
DJS Enterprises
Evaporator Dryer Technologies
F.P.S. Food and Pharma Systems srl
GEA Process Engineering, GEA Pharma Systems
GEMCO
General Lab & Cleanroom Supply, dba General Lab Supply
Hosokawa Micron Powder Systems
Jaygo
Labconco Corp
McGill AirPressure LLC
Milestone
Pink GmbH
Thermosysteme
Servolift
SP Scientific - HULL/VIRTIS/FTS
Telstar North America
VWR Intl LLC

ELECTRODES, CARBON

VWR Intl LLC

For vendor contact information, see Company Directory section.

ELECTRODES, CONDUCTIVITY

Cole-Parmer
General Lab &
Cleanroom Supply,
dba General Lab
Supply
Hamilton Co,
Process Analytics
Honeywell, Industrial
Measurement &
Controls Div
VWR Intl LLC

ELECTRODES, KARL FISCHER

General Lab &
Cleanroom Supply,
dba General Lab
Supply
JM Science
VWR Intl LLC

ELECTRODES, METALLIC

General Lab &
Cleanroom Supply,
dba General Lab
Supply
VWR Intl LLC

ELECTRODES, PH

Cole-Parmer
General Lab &
Cleanroom Supply,
dba General Lab
Supply
Hamilton Co,
Process Analytics
Honeywell, Industrial
Measurement &
Controls Div
VWR Intl LLC

ELECTRODES, SPECIFIC ION

General Lab &
Cleanroom Supply,
dba General Lab
Supply
JM Science
VWR Intl LLC

ELECTRONIC TRANSMITTERS

First Sensor
SSE Technologies

ELECTROPHORESIS EQUIPMENT AND ACCESSORIES

BioDesign of New York
Caliper Life Sciences
General Lab &
Cleanroom Supply,
dba General Lab
Supply
MicroSol
Technology Corp
Molex, LLC - Polymicro
Technologies™
Syngene
VWR Intl LLC

ELECTROPHORESIS, CAPILLARY INSTRUMENTATION

General Lab &
Cleanroom Supply,
dba General Lab
Supply
LEAP Technologies
MicroSol
Technology Corp
Molex, LLC - Polymicro
Technologies™
VWR Intl LLC

ENVIRONMENTAL ROOMS AND CHAMBERS

Anguil Environmental
Systems

Atlas Material Testing
Technology LLC
Bahnsen Environmental
Specialties,
An EMCOR Co
CARON Products
Services
ESCO Technologies
FabOhio
General Lab &
Cleanroom Supply,
dba General Lab
Supply

HEMCO Corp
Isolation Systems
Labconco Corp
Liberty Industries
Scientific Industries
TRAX Industrial
Curtains
VWR Intl LLC

ENZYME ANALYZERS

Charles River,
Microbial Solutions
VWR Intl LLC

ETO MONITORS

ENMET
Process Tek
Sensor Electronics Corp
VWR Intl LLC

EVAPORATION EQUIPMENT

Chem Flowtronics
Chemical Transfer
Partnership Corp,
(CTP Corp)
IKA Works
Uhlmann Packaging
Systems LP

EVAPORATORS

3V TECH USA
Advanced Synthesis,
Chemical Div
Apache Stainless
Equipment Corp
BÜCHI Labortechnik AG
Chem Flowtronics
Chemical Transfer
Partnership Corp,
(CTP Corp)
De Dietrich Process
Systems
Evaporator Dryer
Technologies
GEA Process
Engineering, GEA
Pharma Systems
General Lab &
Cleanroom Supply,
dba General Lab
Supply
IKA Works
J.G. Finneran Assocs
Kimble Chase, Life
Sciences & Research
Labconco Corp
Milestone
Pope Scientific
SPX Flow
VWR Intl LLC

EVAPORATORS, CENTRIFUGAL

Cole-Parmer
Labconco Corp
Myers Vacuum
Repair Services
VWR Intl LLC

EXTRACTION APPARATUS

BÜCHI Labortechnik AG
Chem Flowtronics
GEA Process
Engineering, GEA
Pharma Systems
General Lab &
Cleanroom Supply,
dba General Lab
Supply
Isolation Systems

Kimble Chase, Life
Sciences & Research
Milestone
Neutronics
Phenomenex
Robatel
VWR Intl LLC

FERMENTATION EQUIPMENT

Advanced Synthesis,
Chemical Div
Allegheny Bradford
Corp, Corporate
Apache Stainless
Equipment Corp
Bioengineering AG
Chem Flowtronics
DCI-Biolafitte
Eppendorf
GEA Process
Engineering, GEA
Pharma Systems
Glen Mills
IKA Works
Pope Scientific
Sartorius Stedim
North America
VWR Intl LLC
Wheaton Industries,
Wheaton Science
Packaging

FILTERING EQUIPMENT

3M Purification
3V TECH USA
AirClean Systems
Allegheny Bradford
Corp, Corporate
BHS-Filtration
Chem Flowtronics
Chemical Transfer
Partnership Corp,
(CTP Corp)
Clean Air Technologies
O/A Eurovac
Clean Rooms Intl
Cole-Parmer
De Dietrich Process
Systems
ErtelAlsop
Flanders Corp,
Containment Products
GEA Process
Engineering, GEA
Pharma Systems
Isolation Systems
Jaygo
Kavon Filter
Products Co
Kimble Chase, Life
Sciences & Research
Labconco Corp
MultiTherm LLC
Novasep
Pall Life Sciences,
Biopharmaceuticals
Pope Scientific
Robatel
Russell Finex
Sartorius Stedim
North America
SPX Flow
Steri Technologies
SWECO
VWR Intl LLC
Western States
Machine Co

FILTERS, ACID, ALKALI

AirClean Systems
Chem Flowtronics
ErtelAlsop
Flow Sciences
Kavon Filter
Products Co
Pall Life Sciences,
Biopharmaceuticals
VWR Intl LLC

FILTERS, AIR SAMPLING

Hutchins & Hutchins,
Cleanroom Equipment
/ Supply Distributor
Isolation Systems
Kimble Chase, Life
Sciences & Research
Neutronics
Pall Corp,
Life Sciences Group
Pall Life Sciences,
Biopharmaceuticals
VWR Intl LLC

FILTERS, BACTERIOLOGICAL

3M Purification
ErtelAlsop
Flanders Corp,
Containment Products
Flow Sciences
Kavon Filter
Products Co
Pall Corp,
Life Sciences Group
Pall Life Sciences,
Biopharmaceuticals
VWR Intl LLC

FILTERS, GLASS FIBER

AAF Flanders
Buffalo Filter
Flanders Corp,
Containment Products
General Lab &
Cleanroom Supply,
dba General Lab
Supply
J.G. Finneran Assocs
Kavon Filter
Products Co
MicroSol
Technology Corp
Pall Corp,
Life Sciences Group
Pall Life Sciences,
Biopharmaceuticals
Phenomenex
VWR Intl LLC

FILTERS, INCOMING WATER

3M Purification
ErtelAlsop
Kavon Filter
Products Co
Pall Corp,
Life Sciences Group
Pall Life Sciences,
Biopharmaceuticals
VWR Intl LLC

FILTERS, LIGHT AND COLOR

VWR Intl LLC

FILTERS, MEMBRANE

3M Purification
Avestin
Bergen Industrial
Supply Co
BioDesign of New York
Clean Air Technologies
O/A Eurovac
Cole-Parmer
Flow Sciences
GEA Process
Engineering, GEA
Pharma Systems
General Lab &
Cleanroom Supply,
dba General Lab
Supply
J.G. Finneran Assocs
Kavon Filter
Products Co
MicroSol
Technology Corp
Novasep
Pall Corp,
Life Sciences Group

Pall Life Sciences,
Biopharmaceuticals
Parker Hannifin Corp
PJ Cobert Assocs
Sartorius Stedim
North America
VWR Intl LLC

FILTERS, PAPER

ErtelAlsop
Flanders Corp,
Containment Products
Flow Sciences
General Lab &
Cleanroom Supply,
dba General Lab
Supply
Gilson Co
J.G. Finneran Assocs
Kavon Filter
Products Co
Pall Life Sciences,
Biopharmaceuticals
VWR Intl LLC

FILTERS, TESTING APPARATUS

3V TECH USA
Atlas Material Testing
Technology LLC
BHS-Filtration
Chemical Transfer
Partnership Corp,
(CTP Corp)
Pall Corp,
Life Sciences Group
Pall Life Sciences,
Biopharmaceuticals
Pope Scientific
VWR Intl LLC

FLAME PHOTOMETERS

Process Tek
VWR Intl LLC

FLOW CONTROL SYSTEMS

Blacon Fluid Control
Festo Corp
GEA Process
Engineering, GEA
Pharma Systems
Hoffer Flow Controls
Hutchins & Hutchins,
Cleanroom Equipment
/ Supply Distributor
ICONICS
Isolation Systems
Krohne
Monitor
Technologies LLC
Niagara Meters
Parker Hannifin Corp
Sani-Matic
Siemens Building
Technologies
Siemens Process
Industries + Drives
Sierra Instruments
VWR Intl LLC

FLOWMETERS

AZO
Bel-Art Products
Bergen Industrial
Supply Co
Cole-Parmer
Copley Scientific Ltd,
Sls Dept
EXAIR Corp
Festo Corp
First Sensor
Goyen Valve LLC,
Pentair Environmental
Systems
Hoffer Flow Controls
IFM Efector
Integrated Gas Services
Isolation Systems
Kimble Chase, Life
Sciences & Research
Krohne
Niagara Meters
Parker Hannifin Corp

Restek Corp
RJM Sales
Rockwell Automation
Siemens Building
Technologies
Siemens Process
Industries + Drives
Sierra Instruments
VWR Intl LLC
Yokogawa Corp
of America

FLOWMETERS, SANITARY DESIGN

AZO
Bergen Industrial
Supply Co
Hoffer Flow Controls
IFM Efector
Isolation Systems
Krohne
Niagara Meters
Process Tek
Sierra Instruments
VWR Intl LLC
Yokogawa Corp
of America

FRACTION COLLECTORS

Copley Scientific Ltd,
Sls Dept
LEAP Technologies
MicroSol
Technology Corp
Rockwell Automation
VWR Intl LLC

FREEZERS

Bahnsen Environmental
Specialties,
An EMCOR Co
BOC, A member of
The Linde Group
Chem Flowtronics
Cole-Parmer
Eppendorf
General Lab &
Cleanroom Supply,
dba General Lab
Supply
Powers Scientific
Praxair
So-Low Environmental
Equipment Co
Vindonwestech
VWR Intl LLC

FREEZING POINT APPARATUS

Chem Flowtronics
VWR Intl LLC

FRIABILATORS

Copley Scientific Ltd,
Sls Dept
Key Intl
Pharmatron

FRICTS, CHROMATOGRAPHIC COLUMN

MicroSol
Technology Corp
Phenomenex
VWR Intl LLC

FURNACES

Cole-Parmer
Control Instruments
Corp
General Lab &
Cleanroom Supply,
dba General Lab
Supply
Gilson Co
Milestone
VWR Intl LLC

FURNITURE, LABORATORY

Blue Thunder
Technologies
CleanZones LLC

General Lab &
Cleanroom Supply,
dba General Lab
Supply
InterMetro
Industries Corp
Isolation Systems
Justrite Mfg Co
Kewaunee Scientific
Corp
Liberty Industries
STAXS
VWR Intl LLC

GAS ANALYZERS
ABB Measurement &
Analytics
Ametek, Process
Instruments
**Charles River,
Microbial Solutions**
E Instruments Intl
ENMET
ERE
Goyen Valve LLC,
Pentair Environmental
Systems
Neutronics
Sensor Electronics Corp
VWR Intl LLC

GAS MIXTURES
Airgas
BOC, A member of
The Linde Group
ERE
Praxair
Scott Medical Products
VWR Intl LLC

GLASSWARE
3V TECH USA
Blue Thunder
Technologies
Chem Flowtronics
Cole-Parmer
General Lab &
Cleanroom Supply,
dba General Lab
Supply
Gilson Co
Globe Scientific
Kimble Chase, Life
Sciences & Research
Labconco Corp
Millrock Technology
PJ Cobert Assocs
VWR Intl LLC
Wheaton Industries,
Wheaton Science
Packaging

GLOVES
Airgas
Ansell Protective
Products,
Occupational
Healthcare Div
Bel-Art Products
Blue Thunder
Technologies
Cole-Parmer
General Lab &
Cleanroom Supply,
dba General Lab
Supply
Gilson Co
Isolation Systems
Labconco Corp
Liberty Industries
QRP Gloves
Renco Corp
Shoe Inn
STAXS
VWR Intl LLC

**GRANULATORS,
VACUUM,
MICROWAVE**
GEA Process
Engineering, GEA
Pharma Systems
HealthStar
Servolift

HEATERS
IKA Works
Phenomenex

HEATING DEVICES
Biopetechs
Chemical Transfer
Partnership Corp,
(CTP Corp)
Chromalox
Custom Heat LLC
Dalton Electric
Heating Co
Durex Industries
IKA Works
Julabo USA
MultiTherm LLC
Phenomenex
Restek Corp
VWR Intl LLC

HOMOGENIZERS
AC Compacting LLC
APV, An SPX Brand,
SPX Flow Technology
Avestin
BEE Intl
BioSpec Products
Branson
Ultrasonics Corp

**Charles Ross &
Son Co**
Cole-Parmer
GEA Process
Engineering, GEA
Pharma Systems
GEMCO
Glen Mills
IKA Works
Jaygo
Kimble Chase, Life
Sciences & Research
Kinematica
Lee Industries,
Process Systems
& Equipment/Fluid
Transfer Divs
PRO Scientific
Process Tek
Scientific Industries
Silverson Machines
VWR Intl LLC

HOODS, FUME
AirClean Systems
Bel-Art Products
Blue Thunder
Technologies
Clean Air Technologies
O/A Eurovac
CleanZones LLC
Cole-Parmer
ESCO Technologies
Flow Sciences
General Lab &
Cleanroom Supply,
dba General Lab
Supply
HEMCO Corp
Isolation Systems
Kewaunee Scientific
Corp
Labconco Corp
Laminar Flow
Liberty Industries
Plastic Supply of PA
Ryan Herco Flow
Solutions
The Baker Co
VWR Intl LLC

**HOODS,
LAMINAR-FLOW**
AES Clean Technology
AirClean Systems
Bausch Advanced
Technologies
Blue Thunder
Technologies
Clean Rooms Intl
CleanZones LLC
ESCO Technologies
Flow Sciences

General Lab &
Cleanroom Supply,
dba General Lab
Supply
International Portland
Corp
Isolation Systems
Kewaunee Scientific
Corp
Labconco Corp
Laminar Flow
Liberty Industries
Simplex Isolation
Systems, TMI
International LLC
Telstar North America
The Baker Co
VWR Intl LLC

**HUMIDITY
CONTROLLERS**
Carel USA LLC
CARON Products
Services
Isolation Systems
Rotronic
Vaisala
VWR Intl LLC
Yokogawa Corp
of America

HUMIDITY METERS
Cole-Parmer
Condair plc
E Instruments Intl
Gilson Co
Hampshire Controls
Corp
Isolation Systems
Marathon Products
moisttech
Rotronic
Sensitech
Testo
Thunder Scientific Corp
Vaisala
VWR Intl LLC
Yokogawa Corp
of America

**HUMIDITY
RECORDERS**
ACR Systems
Condair plc
Gilson Co
Honeywell, Industrial
Measurement &
Controls Div
Isolation Systems
Marathon Products
Mesa Labs, Cold Chain
moisttech
Rotronic
Sensitech
Testo
TMI USA
Vaisala
VWR Intl LLC
Yokogawa Corp
of America

IAQ MONITORS
ENMET
Kanomax USA
Uhlmann Packaging
Systems LP

INCUBATORS
Biopetechs
CARON Products
Services
Cole-Parmer
Eppendorf
ESCO Technologies
General Lab &
Cleanroom Supply,
dba General Lab
Supply
Globe Scientific
Hovione
Powers Scientific
Scientific Industries
Torrey Pines Scientific
Vindonwestech
VWR Intl LLC

INDICATORS, LEVEL
Automation Products
AZO
Chem Flowtronics
First Sensor
FSI Technologies
Goyen Valve LLC,
Pentair Environmental
Systems
Hovione
IFM Efector
Monitor
Technologies LLC
Pyrometer Instrument
Co, PMA Process
Control Div
Sierra Instruments
Uehling Instrument Co
Yokogawa Corp
of America

**INDICATORS,
PRESSURE**
AMETEK, Sensors,
Test & Calibration
Ashcroft
Bergen Industrial
Supply Co
Festo Corp
First Sensor
IFM Efector
Pyrometer Instrument
Co, PMA Process
Control Div
Testo
TMI USA
Uehling Instrument Co
Yokogawa Corp
of America

**INDUSTRIAL
CONTROL DEVICES**
ATS Automation
Tooling Systems
Chromalox
Festo Corp
FSI Technologies
IFM Efector
Neutronics
Parker Hannifin Corp
Pyrometer Instrument
Co, PMA Process
Control Div
Sierra Instruments
TMI USA
Yokogawa Corp
of America

**INSPECTION
DEVICES, CANS**
Cognex Corp
FSI Technologies
Kaps-All Packaging
Systems
Lenox Instrument Co
Process Tek
PTI Packaging
Technologies &
Inspection LLC
Tri-Tronics Co

**INSPECTION
DEVICES, CAPS AND
NECK SEALS**
AWS Bio-Pharma
Technologies
Cognex Corp
FSI Technologies
Kaps-All Packaging
Systems
NJM Packaging,
Powered by Pro Mach
PTI Packaging
Technologies &
Inspection LLC
Robert Bosch
Packaging
Technology,
Inspection Technology
Pharma
Seidenader Equipment
Tri-Tronics Co
Victor Intl Mktg

**INSPECTION
DEVICES, CAPSULES**
ABB Measurement &
Analytics
AC Compacting LLC
CapPlus Technologies
Cognex Corp
Driam USA
ERIEZ
Fortress Technology
FSI Technologies
Lock Inspection
Systems
Mendel Co
NJM Packaging,
Powered by Pro Mach
Proditec
Qualicaps
Robert Bosch
Packaging
Technology,
Inspection Technology
Pharma
Seidenader Equipment

**INSPECTION
DEVICES, CODE
SCANNING**
Auto-Mate
Technologies LLC
Cognex Corp
FSI Technologies
Hapa & Laetus
Kaps-All Packaging
Systems
Robert Bosch
Packaging
Technology,
Inspection Technology
Pharma
Seidenader Equipment
SSE Technologies
Tri-Tronics Co

**INSPECTION
DEVICES, FOREIGN
MATTER**
AC Compacting LLC
ATS Automation
Tooling Systems
AWS Bio-Pharma
Technologies
Cognex Corp
ERIEZ
Fortress Technology
FSI Technologies
Lock Inspection
Systems
LT Industries
Micro Measurement
Labs
Robert Bosch
Packaging
Technology,
Inspection Technology
Pharma
Seidenader Equipment
Victor Intl Mktg

**INSPECTION
DEVICES, FULL
CASE**
Cognex Corp
ERIEZ
Fortress Technology
FSI Technologies
Kaps-All Packaging
Systems
Tri-Tronics Co
Victor Intl Mktg

**INSPECTION
DEVICES, LABELS**
Auto-Mate
Technologies LLC
AWS Bio-Pharma
Technologies
Cognex Corp
FSI Technologies
Hapa & Laetus
Kaps-All Packaging
Systems
Label Mill
MNEMONICS
NJM Packaging,
Powered by Pro Mach

Seidenader Equipment
Tri-Tronics Co

**INSPECTION
DEVICES, LIQUID
LEVEL**
**Charles River,
Microbial Solutions**
Cognex Corp
ERIEZ
FSI Technologies
Kaps-All Packaging
Systems
Krohne
LJ Star
NJM Packaging,
Powered by Pro Mach
Robert Bosch
Packaging
Technology,
Inspection Technology
Pharma
Tri-Tronics Co
Victor Intl Mktg

**INSPECTION
DEVICES,
PRESSURE**
AGR Intl
Ashcroft
**Charles River,
Microbial Solutions**
NJM Packaging,
Powered by Pro Mach
PTI Packaging
Technologies &
Inspection LLC
Robert Bosch
Packaging
Technology,
Inspection Technology
Pharma
Seidenader Equipment
SSE Technologies
TMI USA

**INSPECTION
DEVICES, TABLETS**
ABB Measurement &
Analytics
AC Compacting LLC
Ackley Machine Corp
CapPlus Technologies
**Charles River,
Microbial Solutions**
Cognex Corp
Driam USA
ERIEZ

**Fette Compacting
America**
Fortress Technology
FSI Technologies
Key Intl
Mendel Co
NJM Packaging,
Powered by Pro Mach
Proditec
Qualicaps
Seidenader Equipment
TruTag Technologies

**INSTRUMENTS
FOR MEASURING
PARTICLE
CONCENTRATION**
Automation Products
**Charles River,
Microbial Solutions**
Climet Instruments Co
Fluid Imaging
Technologies
Hovione
Kanomax USA
Micro Measurement
Labs

**KJELDAHL
APPARATUS**
BÜCHI Labortechnik AG
Kimble Chase, Life
Sciences & Research
Labconco Corp
VWR Intl LLC

For vendor contact information, see Company Directory section.

LABWARE

Bel-Art Products
Blue Thunder
Technologies
ERE
GE Sensing &
Inspection
Technologies
General Lab &
Cleanroom Supply,
dba General Lab
Supply
Gilson Co
Globe Scientific
Kimble Chase, Life
Sciences & Research
Perflex Corp
Poly-Pipets
Quality Lab Accessories
TOPAS Advanced
Polymers
VWR Intl LLC

LABWARE, PTFE

Bel-Art Products
Blue Thunder
Technologies
General Lab &
Cleanroom Supply,
dba General Lab
Supply
Kimble Chase, Life
Sciences & Research
Mastco
VWR Intl LLC

LIMULUS AMEBOCYTE LYSATE (PYROGENICITY TESTING)

Associates of Cape Cod

LIQUID LEVEL SENSORS

Automation Products
First Sensor
IFM Efectror
Krohne
Niagara Meters
Oyster Bay Pump Works
Sierra Instruments
Status Instruments
Uehling Instrument Co

LIQUID SCINTILLATION COUNTING EQUIPMENT AND SUPPLIES

Globe Scientific
Hovione
VWR Intl LLC

LYOPHILIZERS (FREEZE DRYERS)

ESCO Technologies
HealthStar
IMA North America
Labconco Corp
Millrock Technology
Optima Machinery Corp
Praxair
SP Scientific - HULL/
VIRTIS/FTS
Telstar North America
Victor Intl Mktg
VWR Intl LLC

MACHINE VISION SYSTEMS

AC Compacting LLC
ATS Automation
Tooling Systems
Cognex Corp
Daichi Jitsugyo
(America),
Pharmaceutical Div
Festo Corp
First Sensor
FSI Technologies
Hapa & Laetus
NJM Packaging,
Powered by Pro Mach

Robert Bosch
Packaging
Technology,
Inspection Technology
Pharma
Seidenader Equipment
Teledyne DALSA
Victor Intl Mktg

MANOMETERS

Ashcroft
Beamex
Cole-Parmer
Gilson Co
Isolation Systems
Testo
Uehling Instrument Co
VWR Intl LLC

MASS SPECTROMETERS AND ACCESSORIES

Advion
Ametek, Process
Instruments
Bruker, Daltonics
Bruker AXS
LEAP Technologies
Molex, LLC - Polymicro
Technologies™
Perkin Elmer Corp,
Environmental Health
Pfeiffer Vacuum
Shimadzu Scientific
Instruments
VWR Intl LLC
Waters Corp,
Waters Div
WHEATON

MELTING POINT APPARATUS

BÜCHI Labortechnik AG
General Lab &
Cleanroom Supply,
dba General Lab
Supply
VWR Intl LLC

MEMBRANE FILTRATION APPARATUS AND SUPPLIES

BioDesign of New York
GEA Process
Engineering, GEA
Pharma Systems
Kimble Chase, Life
Sciences & Research
Novasep
Pall Corp,
Life Sciences Group
Pall Life Sciences,
Biopharmaceuticals
PJ Cobert Assocs
VWR Intl LLC

METABOLISM CHAMBERS

Hovione
VWR Intl LLC

METAL DETECTORS

ERIEZ
Fortress Technology
Global Equipment,
Magnetics Div
Key Intl
Lock Inspection
Systems
Magnetics Div, Global
Equipment Mktg

MICROBIOLOGY ANALYZERS

AES-Chemunex
Bruker, Daltonics
Charles River,
Microbial Solutions
Pall Life Sciences,
Biopharmaceuticals
VWR Intl LLC

MICROCALORI METERS

Hovione
Perkin Elmer Corp,
Environmental Health

MICROPLATE READERS

Associates of Cape Cod
BioDesign of New York
BioTek Instruments
Caliper Life Sciences
Eppendorf
VWR Intl LLC
Wyatt Technology

MICROPLATE WASHERS

BioTek Instruments
EMD Millipore, A Div
of Merck KGaA
Darmstadt Germany
Oyster Bay Pump Works
VWR Intl LLC

MICROSCOPE SLIDES

Blue Thunder
Technologies
ERE

MICROSCOPES

Blue Thunder
Technologies
Carltext
ERE
HORIBA Scientific
Shimadzu Scientific
Instruments
Thermo Fisher
Scientific, Materials
and Structural
Analysis

MICROSCOPES, DISSECTING

ACCU-SCOPE
Blue Thunder
Technologies
Carltext
VWR Intl LLC

MICROSCOPES, RESEARCH

ACCU-SCOPE
Blue Thunder
Technologies
Bruker Optics
Carltext
General Lab &
Cleanroom Supply,
dba General Lab
Supply
Renishaw
Thermo Fisher
Scientific, Materials
and Structural
Analysis
VWR Intl LLC

MICROWAVE INSTRUMENTATION

Anton PAAR USA
Biotage
CEM Corp
Marion Process
Solutions
Milestone
Perkin Elmer Corp,
Environmental Health

MOISTURE ANALYZERS

ABB Measurement &
Analytics
Bruker Optics
CEM Corp
Cole-Parmer
CW Brabender
Instruments
General Lab &
Cleanroom Supply,
dba General Lab
Supply

LT Industries
MEECO
Monitor
Technologies LLC
Sartorius Stedim
North America
Tiger Optics LLC
VWR Intl LLC

MOISTURE DETERMINATION APPARATUS

ABB Measurement &
Analytics
Atlantic Scale Co
CEM Corp
General Lab &
Cleanroom Supply,
dba General Lab
Supply
moistech
Quantachrome
Instruments
VWR Intl LLC
WA Hammond Drierite
Co Ltd

MOLECULAR WEIGHT ANALYSIS INSTRUMENTS

Wyatt Technology

MOLECULAR WEIGHT ANALYZERS

Brookhaven
Instruments Corp
Bruker, Daltonics
Malvern Instruments
VWR Intl LLC
Wyatt Technology

MULTI-ANGLE LIGHT SCATTERING DETECTORS

Brookhaven
Instruments Corp
Wyatt Technology

NITROGEN DETERMINATION APPARATUS

Kimble Chase, Life
Sciences & Research
Labconco Corp
Neutronics
TELEDYNE TEKMAR
VWR Intl LLC

OSMOMETERS

VWR Intl LLC

OVSNS

Cole-Parmer
Despatch - ITW EAE
General Lab &
Cleanroom Supply,
dba General Lab
Supply
Gilson Co
Milestone
Verder Scientific,
North America
VWR Intl LLC
Werner Mathis USA,
North America

OXYGEN DETERMINERS

First Sensor
Goyen Valve LLC,
Pentair Environmental
Systems
Hamilton Co,
Process Analytics
IKA Works
Neutronics
Verder Scientific,
North America
VWR Intl LLC

PARTICLE REDUCTION EQUIPMENT

Fluid Imaging
Technologies
Kemutec
Verder Scientific,
North America

PARTICLE-SHAPE ANALYZERS

Hosokawa Micron
Powder Systems
Malvern Instruments
Micro Measurement
Labs
Micromeritics
Instrument Corp
Particle Technology
Labs
Quantachrome
Instruments

PARTICLE-SIZE ANALYZERS

Biotech Diagnostics
Corp
Brookhaven
Instruments Corp
Climet Instruments Co
EMD Millipore, A Div
of Merck KGaA
Darmstadt Germany
General Lab &
Cleanroom Supply,
dba General Lab
Supply
Gilson Co
HORIBA Scientific
Hosokawa Micron
Powder Systems
Malvern Instruments
Micro Measurement
Labs
Micromeritics
Instrument Corp
Microtrac
Minox/Elcán
Particle Technology
Labs
Shimadzu Scientific
Instruments
Verder Scientific,
North America
VWR Intl LLC
Wyatt Technology

PARTICLE-SIZE SEPARATORS

Gilson Co
Glen Mills
Hosokawa Micron
Powder Systems
Minox/Elcán
Verder Scientific,
North America
Wyatt Technology

PARTICLES, CALIBRATION

Bangs Labs
Hosokawa Micron
Powder Systems
Micro Measurement
Labs
Q-Lab Corp

PARTICLES, FLUORESCENT

Bangs Labs
Micro Measurement
Labs

PENETROMETERS

Gilson Co
Micromeritics
Instrument Corp

PH METERS AND ACCESSORIES

ATAGO USA
CHEMetrics
Cole-Parmer
ERE

General Lab &
Cleanroom Supply,
dba General Lab
Supply
Gilson Co
Hamilton Co,
Process Analytics
Marathon Products
Ryan Herco Flow
Solutions
Testo
VWR Intl LLC
Yokogawa Corp
of America

PHOTOMETERS

Analytical Spectral
Devices
Eppendorf
ERE
First Sensor
General Lab &
Cleanroom Supply,
dba General Lab
Supply
Konica Minolta Sensing
Americas
VWR Intl LLC

PHOTOSTABILITY TEST CHAMBERS

Atlas Material Testing
Technology LLC
Bahnon Environmental
Specialties,
An EMCOR Co
CARON Products
Services
Gigahertz-Optik
GmbH, Development
and Production of
measurement devices
for optical radiation
Parameter Generation &
Control
Powers Scientific
Vindonwestech

PIPETTES, DISPOSABLE

Accurate Chemical &
Scientific Corp
ATAGO USA
Blue Thunder
Technologies
Cole-Parmer
Eppendorf
General Lab &
Cleanroom Supply, dba
General Lab Supply
Globe Scientific
Kimble Chase, Life
Sciences & Research
Poly-Pipets
Qosina
VWR Intl LLC

PIPETTING SYSTEMS

Atlantic Scale Co
Bel-Art Products
BioTek Instruments
Eppendorf
Fluid Metering
General Lab &
Cleanroom Supply,
dba General Lab
Supply
Globe Scientific
Hamilton Co,
Process Analytics
IVEK Corp
Oyster Bay Pump Works
VWR Intl LLC
Wheaton Industries,
Wheaton Science
Packaging

PIPETTOR CALIBRATION SYSTEMS

Atlantic Scale Co
Eppendorf
Scientech
VWR Intl LLC

POLARIMETERS, AUTOMATIC
Anton PAAR USA
ATAGO USA
PDR-Separations
VWR Intl LLC

POLYMER ANALYZERS
Automation Products
Brookhaven
Instruments Corp
Bruker Optics
LT Industries
Thermo Fisher
Scientific, Materials
and Structural
Analysis
Wyatt Technology

POROSITY ANALYZERS
Micromeritics
Instrument Corp
Particle Technology
Labs
Quantachrome
Instruments

POWDER FLOWABILITY
Ametek Brookfield,
Instrumentation &
Specialty Controls
Division Street
Bosch Packaging
Technology, Pharma
Monitor
Technologies LLC
Quantachrome
Instruments
Vac-U-Max

POWDER TESTING/TESTER
ABB Measurement &
Analytics
Ametek Brookfield,
Instrumentation &
Specialty Controls
Division Street
Bosch Packaging
Technology, Pharma
Bruker AXS
CEM Corp
Quantachrome
Instruments

PRESSURE GAUGES
AMETEK, Sensors,
Test & Calibration
Ashcroft
Blacoh Fluid Control
Cole-Parmer
EMD Millipore, A Div
of Merck KGaA
Darmstadt Germany
Festo Corp
First Sensor
Hutchins & Hutchins,
Cleanroom Equipment
/ Supply Distributor
Isolation Systems
Krohne
LEYBOLD
VWR Intl LLC
WIKA Instrument Corp

PROCESS INSTRUMENTATION
ABB, Process
Automation Div
ABB Measurement &
Analytics
ACR Systems
Ametek, Process
Instruments
Ametek Brookfield,
Instrumentation &
Specialty Controls
Division Street
Analytical Spectral
Devices
Anton PAAR USA
Atlantic Scale Co

Automation Products
Bruker AXS
CEM Corp
E Instruments Intl
Festo Corp
First Sensor
GE Sensing &
Inspection
Technologies
GEA Process
Engineering, GEA
Pharma Systems
Honeywell, Industrial
Measurement &
Controls Div
Kistler Morse
Krohne
Lenox Instrument Co
LT Industries
Malvern Instruments
moistech
Neutronics
Scientech
Sierra Instruments
Status Instruments
Vac-U-Max
Vaisala
VWR Intl LLC
Yokogawa Corp
of America

PROTEIN ANALYZERS
ABB Measurement &
Analytics
Bruker, Daltonics
Bruker Optics
BÜCHI Labortechnik AG
Caliper Life Sciences
LEAP Technologies
Malvern Instruments
moistech
Pall Life Sciences,
Biopharmaceuticals
Perkin Elmer Corp,
Environmental Health
Wyatt Technology

PROTEIN PURIFICATION/SEPARATION EQUIPMENT
Bruker, Daltonics
BÜCHI Labortechnik AG
Caliper Life Sciences
GEA Process
Engineering, GEA
Pharma Systems
Pall Corp,
Life Sciences Group
Pall Life Sciences,
Biopharmaceuticals
SSI/LabAlliance
Wyatt Technology

PROTEIN SEQUENCERS
Shimadzu Scientific
Instruments

PUMPS
Advanced Synthesis,
Chemical Div
Bel-Art Products
Biopetechs
Bosch Packaging
Technology, Pharma
Capmatic Ltd
Cole-Parmer
Copley Scientific Ltd,
Sls Dept
De Dietrich Process
Systems
First Sensor
Fluid Metering
Glen Mills
Goulds Pumps,
ITT Corp
IKA Works
Intelltech
IVEK Corp
LEAP Technologies
LEYBOLD
Met - Pro Global Pump
Solutions - Fybroc

Met-Pro Global Pump
Solutions - Sethco
Oyster Bay Pump Works
SSI/LabAlliance
Vanton Pump &
Equipment Corp
VWR Intl LLC

PYCNOMETERS
Gilson Co
Kimble Chase, Life
Sciences & Research
Micromeritics
Instrument Corp
Quantachrome
Instruments

PYROGEN TESTING KITS
Associates of Cape Cod
VWR Intl LLC

QUALITY ASSURANCE EQUIPMENT
ABB Measurement &
Analytics
Advantest America
Analytical Spectral
Devices
ATAGO USA
ATS RheoSystems,
Cannon Instrument Co
Beamex
Biotest Diagnostics
Corp

Bruker AXS
Caliper Life Sciences
Celsis, Analytical
Services Div
Fortress Technology
GE Sensing &
Inspection
Technologies
Konica Minolta Sensing
Americas
LT Industries
Pharmatron
PTI Packaging
Technologies &
Inspection LLC
QualiTru Sampling
Systems
Rapid Micro Biosystems
Sensitech
SSE Technologies
Vaisala

REACTION CALORIMETERS
IKA Works

REACTORS, AUTOMATED
Advanced Synthesis,
Chemical Div
**Charles Ross &
Son Co**
Chem Flowtronics
Chemical Transfer
Partnership Corp,
(CTP Corp)
De Dietrich Process
Systems
IKA Works
Thar Process
VWR Intl LLC

RECORDERS, CHARTS AND ACCESSORIES
Carltext
Honeywell, Industrial
Measurement &
Controls Div
Vaisala
VWR Intl LLC
Yokogawa Corp
of America

REFRACTOMETERS
Anton PAAR USA
ATAGO USA
Cannon Instrument Co
Cole-Parmer

ERE
General Lab &
Cleanroom Supply,
dba General Lab
Supply
VWR Intl LLC
Wyatt Technology

REFRIGERATORS
Bahnsen Environmental
Specialties,
An EMCOR Co
CARON Products
Services
Chem Flowtronics
General Lab &
Cleanroom Supply,
dba General Lab
Supply
Powers Scientific
Scientific Industries
So-Low Environmental
Equipment Co
Vindonwestech
VWR Intl LLC

RESISTIVITY PROBES
VWR Intl LLC

REVERSE OSMOSIS MEMBRANE EQUIPMENT
ERE
GEA Process
Engineering, GEA
Pharma Systems
Labconco Corp
MECO
NexGen Enviro Systems
Novasep
SPX Flow
VWR Intl LLC

RHEOMETERS
AC Compacting LLC
Ametek Brookfield,
Instrumentation &
Specialty Controls
Division Street
Anton PAAR USA
ATS RheoSystems,
Cannon Instrument Co
Automation Products
Cannon Instrument Co
**Charles River,
Microbial Solutions**
CW Brabender
Instruments
Gilson Co
Malvern Instruments
Particle Technology
Labs
Thermo Fisher
Scientific, Materials
and Structural
Analysis
VWR Intl LLC

ROBOTICS, LABORATORY
ASG, Jergens
Bruker, Daltonics
Caliper Life Sciences
Eppendorf
Fluid Imaging
Technologies
Hamilton Co,
Process Analytics
HEMCO Corp
Prior Scientific
PRO Scientific

SAMPLE PREPARATION INSTRUMENTATION
Anton PAAR USA
Bruker, Daltonics
Bruker AXS
Caliper Life Sciences
CEM Corp
CW Brabender
Instruments
Distek
Eppendorf

ERE
Labconco Corp
LEAP Technologies
Micromeritics
Instrument Corp
Milestone
Neutronics
Phenomenex
Restek Corp
Ryan Herco Flow
Solutions
TELEDYNE TEKMAR
Verder Scientific,
North America
VWR Intl LLC

SAMPLING DEVICES, AUTOMATED
AC Compacting LLC
Allegheny Bradford
Corp, Corporate
Biotest Diagnostics
Corp
Caliper Life Sciences
Distek
ERE
LEAP Technologies
MagneMotion
Neutronics
Ryan Herco Flow
Solutions
Sentry Equipment Corp

SAMPLING DEVICES, BULK POWDER
Advantest America
Caliper Life Sciences
ERE
Gilson Co
Glen Mills
Isolation Systems
Quantachrome
Instruments
Ryan Herco Flow
Solutions
Sentry Equipment Corp

SCREEN GASKETS
Bergen Industrial
Supply Co
Minox/Elcanc
Russell Finex
Ryan Herco Flow
Solutions
VWR Intl LLC

SENSOR PROTECTION VESSELS (THERMOWELLS)
Durex Industries
Pyromation

SHAKERS, INCUBATING
BioSpec Products
Chem Flowtronics
Eppendorf
General Lab &
Cleanroom Supply,
dba General Lab
Supply
PRO Scientific
Scientific Industries
Troemner
Union Scientific Corp
VWR Intl LLC
Werner Mathis USA,
North America

SHAKERS, SIEVE
Chem Flowtronics
Cole-Parmer
General Lab &
Cleanroom Supply,
dba General Lab
Supply
Gilson Co
Glen Mills
HealthStar
Minox/Elcanc
SWECCO
Uhlmann Packaging
Systems LP

Verder Scientific,
North America
VWR Intl LLC

SHAKERS, WATER BATH
Chem Flowtronics
Eppendorf
General Lab &
Cleanroom Supply,
dba General Lab
Supply
Globe Scientific
Julabo USA
Verder Scientific,
North America
VWR Intl LLC

SIEVES, LABORATORY
Bel-Art Products
Chem Flowtronics
General Lab &
Cleanroom Supply,
dba General Lab
Supply
Gilson Co
Glen Mills
Hosokawa Micron
Powder Systems
Kason Corp
Minox/Elcanc
Particle Technology
Labs
Russell Finex
SWECCO
Verder Scientific,
North America
VWR Intl LLC

SIZE REDUCTION EQUIPMENT
Kemutec
SWECCO
Uhlmann Packaging
Systems LP
Verder Scientific,
North America

SOLIDS ANALYZERS
HORIBA Scientific
LT Industries
Thermo Fisher
Scientific, Materials
and Structural
Analysis

SOLVENT RECOVERY SYSTEMS, EXTRACTION
3V TECH USA
GEA Process
Engineering, GEA
Pharma Systems
General Lab &
Cleanroom Supply,
dba General Lab
Supply
Kimble Chase, Life
Sciences & Research
Nash, by Gardner
Denver
NexGen Enviro Systems
Robatel
VWR Intl LLC

SOXHLET EXTRACTION APPARATUS
General Lab &
Cleanroom Supply,
dba General Lab
Supply
Kimble Chase, Life
Sciences & Research
VWR Intl LLC

SPECIFIC GRAVITY BALANCES
Automation Products
Cole-Parmer
General Lab &
Cleanroom Supply,
dba General Lab
Supply

Sciencetech
Shimadzu Scientific
Instruments
VWR Intl LLC

SPECTRO FLUOROMETERS

Bruker Optics
DJS Enterprises
Eppendorf
HORIBA Scientific
Perkin Elmer Corp,
Environmental Health
Shimadzu Scientific
Instruments
Thermo Fisher
Scientific, Materials
and Structural
Analysis
VWR Intl LLC

SPECTROMETERS, AUGER

VWR Intl LLC

SPECTROMETERS, EMISSION

HORIBA Scientific
IET | Intl Equipment
Trading Ltd
Shimadzu Scientific
Instruments
Teledyne Leeman Labs
VWR Intl LLC

SPECTROMETERS, MASS

ABB, Process
Automation Div
Ametek, Process
Instruments
Bruker, Daltonics
Bruker AXS
Cole-Parmer
IET | Intl Equipment
Trading Ltd
Perkin Elmer Corp,
Environmental Health
Shimadzu Scientific
Instruments
VWR Intl LLC
Waters Corp,
Waters Div

SPECTROMETERS, NMR

ABB, Process
Automation Div
ABB Measurement &
Analytics
Bruker, Daltonics
Bruker AXS
Cole-Parmer
IET | Intl Equipment
Trading Ltd
Thermo Fisher
Scientific, Materials
and Structural
Analysis
VWR Intl LLC

SPECTROMETERS, X-RAY

Bruker, Daltonics
Bruker AXS
EDAX, Materials
Analysis Div
HORIBA Scientific
IET | Intl Equipment
Trading Ltd
Shimadzu Scientific
Instruments
Thermo Fisher
Scientific, Materials
and Structural
Analysis
VWR Intl LLC

SPECTRO PHOTOMETER ACCESSORIES

ABB Measurement &
Analytics
Advantest America

Analytical Spectral

Devices
Avantes
Eppendorf
Globe Scientific
Konica Minolta Sensing
Americas
MicroSolv
Technology Corp
Molex, LLC - Polymicro
Technologies™
Perkin Elmer Corp,
Environmental Health
Sci-Con
Shimadzu Scientific
Instruments
Thermo Fisher
Scientific, Materials
and Structural
Analysis
VWR Intl LLC

SPECTRO PHOTOMETER CELLS

Eppendorf
Globe Scientific
Perkin Elmer Corp,
Environmental Health
Sci-Con
VWR Intl LLC

SPECTRO PHOTOMETERS, AA

IET | Intl Equipment
Trading Ltd
Perkin Elmer Corp,
Environmental Health
Sci-Con
Shimadzu Scientific
Instruments
Teledyne Leeman Labs
VWR Intl LLC

SPECTRO PHOTOMETERS, CIRCULAR DICHROISM

ABB Measurement &
Analytics
VWR Intl LLC

SPECTRO PHOTOMETERS, COLD VAPOR

Teledyne Leeman Labs
VWR Intl LLC

SPECTRO PHOTOMETERS, COLOR

Avantes
Eppendorf
HunterLab
Konica Minolta Sensing
Americas
Perkin Elmer Corp,
Environmental Health
Thermo Fisher
Scientific, Materials
and Structural
Analysis
VWR Intl LLC

SPECTRO PHOTOMETERS, DIODE-ARRAY

Ametek, Process
Instruments
Avantes
First Sensor
PDR-Separations
VWR Intl LLC

SPECTRO PHOTOMETERS, FLAME

First Sensor
Teledyne Leeman Labs
VWR Intl LLC

For vendor contact information, see Company Directory section.

SPECTRO PHOTOMETERS, FLUORESCENCE

Avantes
Bruker AXS
Eppendorf
First Sensor
HORIBA Scientific
Perkin Elmer Corp,
Environmental Health
Sci-Con
Shimadzu Scientific
Instruments
Teledyne Leeman Labs
Thermo Fisher
Scientific, Materials
and Structural
Analysis
VWR Intl LLC

SPECTRO PHOTOMETERS, IR

ABB Measurement &
Analytics
Advanced Synthesis,
Chemical Div
Ametek, Process
Instruments
Avantes
Bruker Optics
Cole-Parmer
Eppendorf
First Sensor
IET | Intl Equipment
Trading Ltd
Perkin Elmer Corp,
Environmental Health
Shimadzu Scientific
Instruments
Thermo Fisher
Scientific, Materials
and Structural
Analysis
VWR Intl LLC

SPECTRO PHOTOMETERS, NEAR-IR

ABB Measurement &
Analytics
Analytical Spectral
Devices
Avantes
Bruker Optics
BÜCHI Labortechnik AG
En'Urga
First Sensor
IET | Intl Equipment
Trading Ltd
LT Industries
moisttech
Perkin Elmer Corp,
Environmental Health
Shimadzu Scientific
Instruments
Thermo Fisher
Scientific, Materials
and Structural
Analysis
VWR Intl LLC

SPECTRO PHOTOMETERS, PHOSPHORE SCIENCE

Avantes
First Sensor
HORIBA Scientific
Thermo Fisher
Scientific, Materials
and Structural
Analysis
VWR Intl LLC

SPECTRO PHOTOMETERS, RAMAN

ABB Measurement &
Analytics
Avantes
Bruker, Daltonics
Bruker Optics
First Sensor
HORIBA Scientific
IET | Intl Equipment
Trading Ltd

Renishaw
Thermo Fisher
Scientific, Materials
and Structural
Analysis
VWR Intl LLC

SPECTRO PHOTOMETERS, REFLECTANCE

Advantest America
Analytical Spectral
Devices
Avantes
Bruker Optics
First Sensor
HunterLab
IET | Intl Equipment
Trading Ltd
Konica Minolta Sensing
Americas
LT Industries
Molex, LLC - Polymicro
Technologies™
Perkin Elmer Corp,
Environmental Health
Shimadzu Scientific
Instruments
Thermo Fisher
Scientific, Materials
and Structural
Analysis
VWR Intl LLC

SPECTRO PHOTOMETERS, UV

Advanced Synthesis,
Chemical Div
Ametek, Process
Instruments
Avantes
Bioscience
BioTek Instruments
Cole-Parmer
Distek
En'Urga
First Sensor
IET | Intl Equipment
Trading Ltd
Perkin Elmer Corp,
Environmental Health
Pion
Shimadzu Scientific
Instruments
Thermo Fisher
Scientific, Materials
and Structural
Analysis
VWR Intl LLC

SPECTRO PHOTOMETERS, VISIBLE

Analytical Spectral
Devices
Avantes
Bioscience
BioTek Instruments
Cole-Parmer
En'Urga
First Sensor
Gigahertz-Optik
GmbH, Development
and Production of
measurement devices
for optical radiation
HunterLab
IET | Intl Equipment
Trading Ltd
Konica Minolta Sensing
Americas
LT Industries
Perkin Elmer Corp,
Environmental Health
Shimadzu Scientific
Instruments
Thermo Fisher
Scientific, Materials
and Structural
Analysis
VWR Intl LLC

SPECTRO POLARIMETERS

VWR Intl LLC

STABILITY TEST CHAMBERS

Atlas Material Testing
Technology LLC
Bahnsen Environmental
Specialties,
An EMCOR Co
CARON Products
Services
ETC, Sterilization
Systems
Isolation Systems
Parameter Generation &
Control
Vindonwestech

STANDARDS, PARTICLE SIZE AND COUNTER

Bangs Labs
Biotest Diagnostics
Corp
Blue Thunder
Technologies
DJS Enterprises
EMD Millipore, A Div
of Merck KGaA
Darmstadt Germany
Fluid Imaging
Technologies
VWR Intl LLC

STEAM GENERATORS

AWS Bio-Pharma
Technologies
Dristeam
General Lab
Life Science
Isolation Systems
Paul Mueller Co
Sioux Corp
Telstar North America

STEAM QUALITY TESTING EQUIPMENT

Cartex
Seal Master Corp

STERILIZERS

AWS Bio-Pharma
Technologies
Belimed, Scientific Div
BIOQUELL, Life
Sciences
Cartex
Clordisys Solutions
Despatch - ITW EAE
ETC, Sterilization
Systems

General Lab &
Cleanroom Supply,
dba General Lab
Supply
Getinge USA,
Life Science
HealthStar
Hutchins & Hutchins,
Cleanroom Equipment
/ Supply Distributor
Isolation Systems
L&R Mfg
McBrady Engineering
Plasma Etch
Process Tek
SBM Schoeller-
Bleckmann
Medizintechnik,
A Bosch Packaging
Technology Company
Telstar North America
Victor Intl Mktg
VWR Intl LLC

STERILIZERS, MICROWAVE

Process Tek
VWR Intl LLC

STERILIZERS, OZONE GENERATORS

Process Tek
VWR Intl LLC

STERILIZERS, UV

Clordisys Solutions
Hutchins & Hutchins,
Cleanroom Equipment
/ Supply Distributor
Isolation Systems
Process Tek
VWR Intl LLC

STERILIZERS, WATER PURIFICATION

AWS Bio-Pharma
Technologies
Bosch Packaging
Technology, Pharma
ETC, Sterilization
Systems
Getinge USA,
Life Science
Pall Life Sciences,
Biopharmaceuticals
Process Tek
Victor Intl Mktg
VWR Intl LLC

STILLS, WATER

AWS Bio-Pharma
Technologies
Bosch Packaging
Technology, Pharma
Getinge USA,
Life Science
Milestone
Paul Mueller Co
Stimas USA

STIRRERS

Bel-Art Products
BioSpec Products
Blue Thunder
Technologies
Cole-Parmer
CW Brabender
Instruments
De Dietrich Process
Systems
General Lab &
Cleanroom Supply,
dba General Lab
Supply
Gilson Co
Glen Mills
Globe Scientific

IKAs Works

910-452-7059
fax 910-452-7693
usa@ika.net

www.ika.com

Indco
Kemutec
Kimble Chase, Life
Sciences & Research
Kinematica
Lee Industries, Process
Systems & Equipment/
Fluid Transfer Divs
Lightnin, An SPX Brand,
SPX Flow Technology
MicroSolv
Technology Corp
Poly-Pipets
PRO Scientific
Scientific Industries
Silverson Machines
Torrey Pines Scientific
Troemner
Union Scientific Corp
VWR Intl LLC

STOPPER STERILIZING EQUIPMENT

AWS Bio-Pharma
Technologies
Belimed, Scientific Div
Bosch Packaging
Technology, Pharma
ETC, Sterilization
Systems
Getinge USA,
Life Science
Process Tek
Victor Intl Mktg

SUGAR ANALYZERS

ATAGO USA
Automation Products
LT Industries

SURFACE AREA ANALYZERS

ATS RheoSystems,
Cannon Instrument Co
Cole-Parmer
HORIBA Scientific
Micromeritics
Instrument Corp
Particle Technology
Labs
Quantachrome
Instruments

SURFACE CONTAMINATION MEASURING EQUIPMENT

Biotech Diagnostics
Corp
LT Industries
Micro Measurement
Labs

SURFACE TENSION APPARATUS

Hosokawa Micron
Powder Systems

SYNTHESIZERS, PEPTIDE

CEM Corp
Milestone

SYRINGES

Blue Thunder
Technologies
Cole-Parmer
General Lab &
Cleanroom Supply,
dba General Lab
Supply
Hamilton Co,
Process Analytics
Kimble Chase, Life
Sciences & Research
MicroSolv
Technology Corp
PJ Cobert Assocs
Restek Corp
Robert Bosch
Packaging
Technology,
Inspection Technology
Pharma
VWR Intl LLC
WHEATON

TABLET TESTING SYSTEMS

ABB Measurement &
Analytics
AC Compacting LLC
Advantest America
Ametek Brookfield,
Instrumentation &
Specialty Controls
Division Street
Atlantic Scale Co
BÜCHI Labortechnik AG
Caliper Life Sciences
Copley Scientific Ltd,
Sls Dept
DJS Enterprises
**Fette Compacting
America**
Key Intl
KIKUSUI USA
LT Industries
Pharmatron

TEMPERATURE CIRCULATORS, CONSTANT

CARON Products
Services
General Lab &
Cleanroom Supply,
dba General Lab
Supply
IKA Works

Julabo USA
VWR Intl LLC

TEMPERATURE CONTROLLERS, HEATING EQUIPMENT

ABB Measurement &
Analytics
Biopetechs
Bruker AXS
Chemical Transfer
Partnership Corp,
(CTP Corp)
Chromalox
Cole-Parmer
Custom Heat LLC
Despatch - ITW EAE
Durex Industries
Honeywell, Industrial
Measurement &
Controls Div
IKA Works
Isolation Systems
Julabo USA
Mokon
MultiTherm LLC
Paratherm
VWR Intl LLC
Yokogawa Corp
of America

TEMPERATURE CONTROLLERS, LIQUID (LOW TEMPERATURES)

Chemical Transfer
Partnership Corp,
(CTP Corp)
Chromalox
Durex Industries
Eppendorf
IKA Works
Julabo USA
Mokon
Paratherm
Q-Lab Corp
VWR Intl LLC
Yokogawa Corp
of America

TEMPERATURE INSTRUMENTATION

ABB, Process
Automation Div
ACR Systems
Ashcroft
Atlantic Scale Co
Beamex
Biopetechs
Carltech
Chromalox
Custom Heat LLC
Durex Industries
GE Sensing &
Inspection
Technologies
Hampshire Controls
Corp
IFM Efector
IKA Works
Julabo USA
Krohne
Marathon Products
Mesa Labs, Cold Chain
Process Tek
Pyromatrom
Pyrometer Instrument
Co, PMA Process
Control Div
Sensitech
Testo
TMI USA
VWR Intl LLC
WIKA Instrument Corp
Yokogawa Corp
of America

TEMPERATURE PROBES

ACR Systems
AES-Chemunex
AMETEK, Sensors,
Test & Calibration
Atlantic Scale Co

Carltech
Chromalox
Cole-Parmer
Custom Heat LLC
Durex Industries
GE Sensing &
Inspection
Technologies
General Lab &
Cleanroom Supply,
dba General Lab
Supply
Hampshire Controls
Corp
IFM Efector
IKA Works
Julabo USA
Marathon Products
Mastco
Process Tek
Pyromatrom
Pyrometer Instrument
Co, PMA Process
Control Div
Q-Lab Corp
Sensitech
Testo
TMI USA
Vaisala
VWR Intl LLC

TEMPERATURE RECORDERS

ACR Systems
Carltech
Custom Heat LLC
Durex Industries
GE Sensing &
Inspection
Technologies
General Lab &
Cleanroom Supply,
dba General Lab
Supply
Honeywell, Industrial
Measurement &
Controls Div
IKA Works
Marathon Products
Mesa Labs, Cold Chain
Process Tek
Pyrometer Instrument
Co, PMA Process
Control Div
Sensitech
TCP Reliable
Testo
TMI USA
Vaisala
VWR Intl LLC
Yokogawa Corp
of America

TEMPERATURE SENSORS (RTD, THERMOCOUPLE)

AMETEK, Sensors,
Test & Calibration
Cole-Parmer
Durex Industries
Hampshire Controls
Corp
Parker domnick hunter
Pyromatrom

TENSIMETERS

AMETEK, Sensors,
Test & Calibration

TESTING DEVICES, CONTAINER LEAKS

InterTech
Development Co
Pfeiffer Vacuum
Process Tek
PTI Packaging
Technologies &
Inspection LLC
Q-Lab Corp
Robert Bosch
Packaging
Technology,
Inspection Technology
Pharma
Seal Master Corp
Seidenader Equipment

TESTING DEVICES, HUMIDITY

Atlantic Scale Co
Atlas Material Testing
Technology LLC
E Instruments Intl
moisttech
Q-Lab Corp
Sensitech
Testo
Thunder Scientific Corp
TMI USA
Vaisala
VWR Intl LLC
WA Hammond Drierite
Co Ltd

TESTING DEVICES, INHALERS

Copley Scientific Ltd,
Sls Dept
First Sensor
Q-Lab Corp
Seidenader Equipment

TESTING DEVICES, PRESSURE

AGR Intl
AMETEK, Sensors,
Test & Calibration
Ashcroft
Atlantic Scale Co
Beamex
First Sensor
InterTech
Development Co
Seal Master Corp
Seidenader Equipment
Testo
TMI USA
Vaisala
VWR Intl LLC

TESTING DEVICES, STERILITY

Carltech
Celsis, Analytical
Services Div
ESCO Technologies
Nelson Labs, LLC
Process Tek
PTI Packaging
Technologies &
Inspection LLC
VWR Intl LLC

TESTING DEVICES, SUPPOSITORIES

Copley Scientific Ltd,
Sls Dept

TESTING DEVICES, TABLET HARDNESS

AMETEK, Sensors,
Test & Calibration
Copley Scientific Ltd,
Sls Dept
**Fette Compacting
America**
Key Intl
LT Industries
Newage Testing
Instruments, A
Subsidiary of AMETEK
Pharmatron
Shimadzu Scientific
Instruments

TESTING DEVICES, TEMPERATURE

AMETEK, Sensors,
Test & Calibration
Ashcroft
Atlantic Scale Co
Atlas Material Testing
Technology LLC
Beamex
E Instruments Intl
IKA Works
Julabo USA
Process Tek
Seidenader Equipment
Sensitech
Testo
TMI USA

Vaisala
VWR Intl LLC

TESTING DEVICES, WATER

ATAGO USA
CHEMetrics
Seidenader Equipment
VWR Intl LLC

THERMAL ANALYTICAL INSTRUMENTS

ATS RheoSystems,
Cannon Instrument Co
Durex Industries
GE Sensing &
Inspection
Technologies
Particle Technology
Labs
Perkin Elmer Corp,
Environmental Health
Shimadzu Scientific
Instruments
Testo
Vaisala
Waters Corp,
Waters Div

THERMO GRAVIMETRIC ANALYSIS EQUIPMENT

Particle Technology
Labs
Perkin Elmer Corp,
Environmental Health
Shimadzu Scientific
Instruments

THERMOMETERS, ANIMAL

Atlantic Scale Co
VWR Intl LLC

THERMOMETERS, BULB-TYPE

Ashcroft
Atlantic Scale Co
Cole-Parmer
General Lab &
Cleanroom Supply,
dba General Lab
Supply
VWR Intl LLC

THERMOMETERS, DIAL READING

Ashcroft
Atlantic Scale Co
Carltech
General Lab &
Cleanroom Supply,
dba General Lab
Supply
Gilson Co
VWR Intl LLC

THERMOMETERS, DIFFERENTIAL

Atlantic Scale Co
VWR Intl LLC
WIKA Instrument Corp

THERMOMETERS, DIGITAL READOUT

AMETEK, Sensors,
Test & Calibration
Atlantic Scale Co
Cole-Parmer
General Lab &
Cleanroom Supply,
dba General Lab
Supply
Gilson Co
Hampshire Controls
Corp
Marathon Products
Pyrometer Instrument
Co, PMA Process
Control Div
Sensitech
Status Instruments

Testo
VWR Intl LLC
Yokogawa Corp
of America

THERMOMETERS, ELECTRICAL, REMOTE READING

Atlantic Scale Co
Hampshire Controls
Corp
Pyrometer Instrument
Co, PMA Process
Control Div
Sensitech
Status Instruments
Testo
Two Dimensional
Instruments
Vaisala
VWR Intl LLC

THERMOMETERS, ELECTRONIC

Atlantic Scale Co
Carltech
Custom Heat LLC
Durex Industries
GE Sensing &
Inspection
Technologies
Hampshire Controls
Corp
Marathon Products
Pyrometer Instrument
Co, PMA Process
Control Div
Sensitech
Status Instruments
Two Dimensional
Instruments
Vaisala
VWR Intl LLC
Yokogawa Corp
of America

THERMOMETERS, RECORDING

Atlantic Scale Co
Carltech
Marathon Products
Pyrometer Instrument
Co, PMA Process
Control Div
Sensitech
Testo
Two Dimensional
Instruments
Vaisala
VWR Intl LLC

THERMOMETERS, SURFACE

Cole-Parmer
Durex Industries
Marathon Products
Powers Scientific
Pyrometer Instrument
Co, PMA Process
Control Div
Testo
VWR Intl LLC

THERMOWELLS

Durex Industries

TIME-TEMPERATURE MONITORS

ACR Systems
Carltech
Chromalox
Marathon Products
Process Tek
Sensitech
Testo
Two Dimensional
Instruments
Vaisala

TISSUE CULTURE APPARATUS AND SUPPLIES

Bel-Art Products
Biopetechs

For vendor contact information, see Company Directory section.

EMD Millipore, A Div of Merck KGaA Darmstadt Germany
General Lab & Cleanroom Supply, dba General Lab Supply
Globe Scientific
Kimble Chase, Life Sciences & Research
VWR Intl LLC

TITRATION APPARATUS

Brookhaven Instruments Corp
General Lab & Cleanroom Supply, dba General Lab Supply
JM Science
Malvern Instruments
Pion
Sci-Con
VWR Intl LLC

TITRATORS, AMPEROMETRIC

JM Science
VWR Intl LLC

TITRATORS, COLORIMETRIC

JM Science
VWR Intl LLC

TITRATORS, COULOMETRIC

JM Science
VWR Intl LLC

TITRATORS, KARL FISCHER

JM Science
VWR Intl LLC

TITRATORS, PHOTOMETRIC

JM Science
VWR Intl LLC

TITRATORS, POTENTIOMETRIC

JM Science
Pion
Sci-Con
VWR Intl LLC

TOC ANALYZERS

EMD Millipore, A Div of Merck KGaA Darmstadt Germany
Sci-Con
Shimadzu Scientific Instruments
TELEDYNE TEKMAR
VWR Intl LLC

TORQUE TESTER

ASG, Jergens
Atlantic Scale Co
Blue Thunder Technologies
CW Brabender Instruments
IKA Works
Kaps-All Packaging Systems
Pharmatron

TRACE ANALYZERS

Neutronics
Tiger Optics LLC

TRANSIL LUMINATORS

General Lab & Cleanroom Supply, dba General Lab Supply
Q-Lab Corp
Syngene
VWR Intl LLC

TUBING, CAPILLARY

General Lab & Cleanroom Supply, dba General Lab Supply
Globe Scientific
MicroSolv Technology Corp
Molex, LLC - Polymicro Technologies™
Parker Hannifin, Parflex / Texloc
PJ Cobert Assocs
VWR Intl LLC

TURBIDIMETERS

Gilson Co
VWR Intl LLC

ULTRA CENTRIFUGES

General Lab & Cleanroom Supply, dba General Lab Supply

ULTRAFILTRATION EQUIPMENT

GEA Process Engineering, GEA Pharma Systems
Kimble Chase, Life Sciences & Research
Novasep
Pall Corp, Life Sciences Group
Pall Life Sciences, Biopharmaceuticals
VWR Intl LLC

ULTRASONIC CLEANING EQUIPMENT

BioTek Instruments
Branson Ultrasonics Corp
General Lab & Cleanroom Supply, dba General Lab Supply
Gilson Co
Glen Mills
IKA Works
L&R Mfg
Liberty Industries
Natoli Engineering Co
Sani-Matic
Verder Scientific, North America
VWR Intl LLC

UV LAMPS

Atlas Material Testing Technology LLC
General Lab & Cleanroom Supply, dba General Lab Supply
Gigahertz-Optik GmbH, Development and Production of measurement devices for optical radiation
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DOCUMENT MANAGEMENT SYSTEMS (DMS)

BioProcess Technology Consultants
Camargo Pharmaceutical Services
Ce3
comes compliance services
CSSC, A Q Pharma CO
Emerson Process Mgmt, Systems & Solutions
Intrasphere Technologies
JAF Consulting, Validation & Regulatory Services Consulting
Katzscan
Klein Mgmt Systems
MasterControl
NNE Pharmaplan
Octagon Research Solutions
Optical Image Technology
Pilgrim Quality Solutions
Poplar Solutions, LLC
QUMAS - Dassault Systemes
RCM Technologies, Life Sciences
Rockwell Automation
Schiff & Co
Siemens Process Industries + Drives
TCP Reliable
The Center for Professional Innovation & Education

DOCUMENTATION TOOLS

Beamex
CSSC, A Q Pharma CO
Gavin Pharmaceutical Services
Klein Mgmt Systems
NNE Pharmaplan
QPharma
RCM Technologies, Life Sciences
Sensitech
Siemens Process Industries + Drives
SSE Technologies

E-BUSINESS SERVICES

comes compliance services
Intrasphere Technologies
JAF Consulting, Validation & Regulatory Services Consulting
Katzscan
Klein Mgmt Systems
Optical Image Technology
RCM Technologies, Life Sciences

E-COMMERCE

Katzscan
Keller Packaging Engineering Group LLC
Klein Mgmt Systems
Optical Image Technology
ProcessPro Software, A Division of Open Systems
RCM Technologies, Life Sciences
SSE Technologies

ELECTRIC CONTROL PRODUCTS

Chromalox
Festo Corp
FSI Technologies
Parker Hannifin, Electromechanical Automation Div
RCM Technologies, Life Sciences
Sparta Systems
Yokogawa Corp of America

ELECTRONIC BATCH RECORD SYSTEMS

ABB, Process Automation Div
Applied Control Engineering
Atlantic Scale Co
Automated Control Concepts
comes compliance services
CSSC, A Q Pharma CO
Emerson Process Mgmt, Systems & Solutions
Honeywell, Industrial Measurement & Controls Div
JAF Consulting, Validation & Regulatory Services Consulting
Klein Mgmt Systems
MasterControl
NNE Pharmaplan
Parsec Automation Corp
Perigon Intl
Process Tek
QUMAS - Dassault Systemes
RCM Technologies, Life Sciences
Rockwell Automation
Ruland Engineering & Consulting GmbH
Sani-Matic
Siemens Process Industries + Drives
Sparta Systems
SSE Technologies
Werum IT Solutions America
Yokogawa Corp of America

ELECTRONIC DOCUMENT MANAGEMENT SYSTEMS

Atlantic Scale Co
Beamex
BioProcess Technology Consultants
Ce3
comes compliance services
CSSC, A Q Pharma CO
Emerson Process Mgmt, Systems & Solutions
Intrasphere Technologies
JAF Consulting, Validation & Regulatory Services Consulting
Klein Mgmt Systems
MasterControl
NNE Pharmaplan
Octagon Research Solutions
Optical Image Technology
Pilgrim Quality Solutions
Poplar Solutions, LLC
QUMAS - Dassault Systemes

For vendor contact information, see Company Directory section.

RCM Technologies, Life Sciences
Rockwell Automation
Siemens Process Industries + Drives
Sparta Systems
SSE Technologies
The Center for Professional Innovation & Education
Waters Corp, Waters Div

ELECTRONIC RECORDS

ABB, Process Automation Div
ACR Systems
Applied Control Engineering
Atlantic Scale Co
Automated Control Concepts
Beamex
CALCET Co, Biopharmaceutical
Ce3
comes compliance services
CSSC, A Q Pharma CO
Emerson Process Mgmt, Systems & Solutions
ICONICS
JAF Consulting, Validation & Regulatory Services Consulting
Kaplan EduNeering
Klein Mgmt Systems
MasterControl
NNE Pharmaplan
Optical Image Technology
Perigon Intl
Poplar Solutions, LLC
Process Tek
Process XL Consulting Group LLC
QPharma
QUMAS - Dassault Systemes
RCM Technologies, Life Sciences
Ruland Engineering & Consulting GmbH
Sensitech
Siemens Process Industries + Drives
Sparta Systems
The Center for Professional Innovation & Education
Waters Corp, Waters Div
Werum IT Solutions America
Yokogawa Corp of America

ELECTRONIC SIGNATURE/EID

ACR Systems
Applied Control Engineering
Atlantic Scale Co
Beamex
CALCET Co, Biopharmaceutical
Ce3
comes compliance services
CSSC, A Q Pharma CO
Emerson Process Mgmt, Systems & Solutions
JAF Consulting, Validation & Regulatory Services Consulting

MasterControl
NNE Pharmaplan
Optical Image Technology
Process XL Consulting Group LLC
ProcessPro Software, A Division of Open Systems
QPharma
QUMAS - Dassault Systemes
RCM Technologies, Life Sciences
Ruland Engineering & Consulting GmbH
Sensitech
Siemens Process Industries + Drives
Sparta Systems
The Center for Professional Innovation & Education
Waters Corp, Waters Div
Werum IT Solutions America

EMPLOYEE CERTIFICATION/ TRAINING

comes compliance services
Fette Compacting America
Gavin Pharmaceutical Services
Intrasphere Technologies
Kaplan EduNeering
PharmaSys
QPharma
RCM Technologies, Life Sciences
Regulatory Compliance Assocs
Schiff & Co
Siemens Process Industries + Drives
Sparta Systems
The Center for Professional Innovation & Education
Veltek Assocs

ENTERPRISE COMPLIANCE MANAGEMENT

Blue Mountain Quality Resources
CSSC, A Q Pharma CO
ICONICS
Intrasphere Technologies
JAF Consulting, Validation & Regulatory Services Consulting
Kaplan EduNeering
MasterControl
Pilgrim Quality Solutions
Process XL Consulting Group LLC
QUMAS - Dassault Systemes
RCM Technologies, Life Sciences
Siemens Process Industries + Drives
Sparta Systems

ENTERPRISE HISTORIAN

ABB, Process Automation Div
Applied Control Engineering
Automated Control Concepts

Emerson Process Mgmt, Systems & Solutions
ICONICS
NNE Pharmaplan
Perigon Intl
RCM Technologies, Life Sciences
Ruland Engineering & Consulting GmbH
Siemens Process Industries + Drives

ENTERPRISE QUALITY MANAGEMENT

Atlantic Scale Co
Blue Mountain Quality Resources
CSSC, A Q Pharma CO
CyberMetrics Corp
ICONICS
Intrasphere Technologies
JAF Consulting, Validation & Regulatory Services Consulting
MasterControl
Parsec Automation Corp
Pilgrim Quality Solutions
QUMAS - Dassault Systemes
RCM Technologies, Life Sciences
Ruland Engineering & Consulting GmbH
Schiff & Co
Sparta Systems
The Center for Professional Innovation & Education

ENTERPRISE RESOURCE PLANNING (ERP)

Atlantic Scale Co
CSSC, A Q Pharma CO
Emerson Process Mgmt, Systems & Solutions
ICONICS
Katzscan
Optical Image Technology
ProcessPro Software, A Division of Open Systems
RCM Technologies, Life Sciences
Ruland Engineering & Consulting GmbH
Siemens Process Industries + Drives

FLEXIBLE AUTOMATION-ROBOTICS

Spiroflow Systems

GRAPHICS

ICONICS
Klein Mgmt Systems
NNE Pharmaplan
Parker Hannifin, Electromechanical Automation Div

GRAPHICS SYSTEMS

Automated Control Concepts
ICONICS
NNE Pharmaplan
Perigon Intl
RCM Technologies, Life Sciences

I/O SYSTEMS

ABB, Process Automation Div
Applied Control Engineering
DGH Corp
Emerson Process Mgmt, Systems & Solutions
Festo Corp
Molins
NNE Pharmaplan
Parker Hannifin, Electromechanical Automation Div
Perigon Intl
RCM Technologies, Life Sciences
Rockwell Automation
Siemens Process Industries + Drives
TAL Technologies
Yokogawa Corp of America

IMAGE PROCESSING AND ANALYSIS SOFTWARE

ACR Image Metrix
FSI Technologies
I Holland Ltd
NNE Pharmaplan
Proditec
Rockwell Automation

INSTRUMENT AND COMPUTER INTERFACES

ABB, Process Automation Div
Applied Control Engineering
Chromalox
Emerson Process Mgmt, Systems & Solutions
ICONICS
JAF Consulting, Validation & Regulatory Services Consulting
Krohne
Parker Hannifin, Electromechanical Automation Div
Perigon Intl
RCM Technologies, Life Sciences
Rockwell Automation
Siemens Process Industries + Drives
SMI
TAL Technologies
Vaisala
Waters Corp, Waters Div
Werum IT Solutions America
Yokogawa Corp of America

INTEGRATION SERVICES

ABB, Process Automation Div
Applied Control Engineering
Automated Control Concepts
comes compliance services
Conatech Consulting Group
Emerson Process Mgmt, Systems & Solutions
ICONICS
IMA North America
Integrated Packaging Systems
Intrasphere Technologies

IPS-Integrated Project Services LLC
LabWare
MasterControl
NNE Pharmaplan
O'Brien & Gere
Perigon Intl
ProcessPro Software, A Division of Open Systems
RCM Technologies, Life Sciences
Sensitech
Siemens Process Industries + Drives
Yokogawa Corp of America

LABELING AND RANDOMIZATION SYSTEMS, CLINICAL TRIAL

Cenduit LLC
Clinical Systems
Intrasphere Technologies
JAF Consulting, Validation & Regulatory Services Consulting
Label Mill
NNE Pharmaplan
Schiff & Co
Siemens Process Industries + Drives
The Center for Professional Innovation & Education

LABORATORY INFORMATION MANAGEMENT SYSTEMS

Bridge Assocs Intl
Bruker, Daltonics
CSSC, A Q Pharma CO
ICONICS
Intrasphere Technologies
JAF Consulting, Validation & Regulatory Services Consulting
Klein Mgmt Systems
LabWare
NNE Pharmaplan
QPharma
RCM Technologies, Life Sciences
The Center for Professional Innovation & Education

LEARNING SYSTEMS

comes compliance services
JAF Consulting, Validation & Regulatory Services Consulting
QPharma

LOGISTICS

QPharma
SSE Technologies

LOOP AUDITING AND OPTIMIZATION

ABB, Process Automation Div
Emerson Process Mgmt, Systems & Solutions
JAF Consulting, Validation & Regulatory Services Consulting
NNE Pharmaplan

MACHINE VISION SYSTEMS

Applied Control Engineering
FP Developments
FSI Technologies
Hapa & Laetus
Mettler Toledo PCE, Product Inspection
NNE Pharmaplan
Omega Design Corp
Perigon Intl
RCM Technologies, Life Sciences
Seidenader Equipment
Symetix
Videojet Technologies
Zed Industries

MAINFRAMES

Klein Mgmt Systems
RCM Technologies, Life Sciences

MAINTENANCE MANAGEMENT

AWS Bio-Pharma Technologies
Beamex
Blue Mountain Quality Resources
CyberMetrics Corp
Emerson Process Mgmt, Systems & Solutions
ICONICS
Perkin Elmer Corp, Environmental Health
RCM Technologies, Life Sciences
Ruland Engineering & Consulting GmbH
Siemens Process Industries + Drives

MANUFACTURING EXECUTION SYSTEMS (MES)

ABB, Process Automation Div
Applied Control Engineering
Automated Control Concepts
comes compliance services
CSSC, A Q Pharma CO
ICONICS
JAF Consulting, Validation & Regulatory Services Consulting
NNE Pharmaplan
Parsec Automation Corp
Perigon Intl
PharmaDirections
RCM Technologies, Life Sciences
Rockwell Automation
Ruland Engineering & Consulting GmbH
Siemens Process Industries + Drives
Werum IT Solutions America
Yokogawa Corp of America

MANUFACTURING RESOURCE/MATERIAL REQUIREMENTS PLANNING (MRP)

CSSC, A Q Pharma CO
ICONICS
JAF Consulting, Validation & Regulatory Services Consulting
Katzscan
NNE Pharmaplan

ProcessPro Software, A Division of Open Systems
RCM Technologies, Life Sciences
Rockwell Automation
Siemens Process Industries + Drives

MATERIAL SAFETY DATA SHEET

Conatech Consulting Group
ImageTrak Software
Intrasphere Technologies
ProcessPro Software, A Division of Open Systems
RCM Technologies, Life Sciences
Werum IT Solutions America

MATERIALS DATABASE

ImageTrak Software
International Centre for Diffraction Data
Katzscan
RCM Technologies, Life Sciences

MODELING

Biokinetics
BioProcess Technology Consultants
Emerson Process Mgmt, Systems & Solutions
Minitab
NNE Pharmaplan

MONITORING DEVICES

ACR Systems
Acromag
BinMaster, Div Garner Industries
Chromalox
CustomVault
Emerson Process Mgmt, Systems & Solutions
Festo Corp
GE Sensing & Inspection Technologies
ICONICS
Kanomax USA
Kistler Morse
Krohne
Lenox Instrument Co
LT Industries
Mil-Ram Technology
NNE Pharmaplan
Parker Hannifin, Electromechanical
Automation Div
RCM Technologies, Life Sciences
Sensitech
TCP Reliable
Tri-Tronics Co
Uehling Instrument Co
Vaisala
Werum IT Solutions America
Yokogawa Corp of America

NETWORKING

Applied Control Engineering
Automated Control Concepts
ICONICS
Klein Mgmt Systems
NNE Pharmaplan
Perigon Intl

RCM Technologies, Life Sciences
Werum IT Solutions America

ON-LINE SERVICES

Academy Savant
ETC, Sterilization Systems
ICONICS
MasterControl
RCM Technologies, Life Sciences
Richman Chemical
Werum IT Solutions America

OUTPUT DEVICES

NNE Pharmaplan
RCM Technologies, Life Sciences

PERSONAL DIGITAL ASSISTANT

RCM Technologies, Life Sciences

PHARMACEUTICAL DATABASE

Archi-Tech Systems
BioProcess Technology Consultants
Bruker, Daltonics
Camargo Pharmaceutical Services
comes compliance services
ICONICS
International Centre for Diffraction Data
JAF Consulting, Validation & Regulatory Services Consulting
Klein Mgmt Systems
NNE Pharmaplan
RCM Technologies, Life Sciences
Richman Chemical
Schiff & Co

PLOTTERS

Perigon Intl

POWER PROTECTION

Perigon Intl

PRINTERS

Atlantic Scale Co
Fujitsu Components America
Hapa & Laetus
Klein Mgmt Systems
Matthews Intl Corp, Matthews Marking Systems
Veltek Assocs
Videojet Technologies

PROCESS AUTOMATION

A&B Process Systems Corp, JBT Corporation
ABB, Process Automation Div
Applied Control Engineering
Automated Control Concepts
AZO
El Assocs, Designers & Builders
Emerson Process Mgmt, Systems & Solutions
Festo Corp
GEA Process Engineering, GEA Pharma Systems

ICONICS
Intrasphere Technologies
IPS-Integrated Project Services LLC
Kistler Morse
Krohne
MagneMotion
MasterControl
Niagara Meters
NNE Pharmaplan
Parker domnick hunter
Perigon Intl
Poplar Solutions, LLC
ProcessPro Software, A Division of Open Systems
RCM Technologies, Life Sciences
Rockwell Automation
Ruland Engineering & Consulting GmbH
Siemens Building Technologies
Siemens Process Industries + Drives
Sparta Systems
Spiroflow Systems
Symetix
URS Corp
ValiMation
Werum IT Solutions America
Yokogawa Corp of America

PROCESS CONTROL SYSTEMS

A&B Process Systems Corp, JBT Corporation
ABB Measurement & Analytics
Acromag
Automated Control Concepts
AWS Bio-Pharma Technologies
AZO

Charles Ross & Son Co

Chromalox
comes compliance services
Conatech Consulting Group
CSSC, A Q Pharma CO
El Assocs, Designers & Builders
Emerson Process Mgmt, Systems & Solutions
ESC, Electrol Specialties Co

Freund-Vector Corp

GEA Process Engineering, GEA Pharma Systems
Honeywell, Industrial Measurement & Controls Div
ICONICS
Kistler Morse
Krohne
Lee Industries, Process Systems & Equipment/Fluid Transfer Divs
Lenox Instrument Co
LJ Star
LT Industries

Mettler Toledo PCE, Product Inspection
moisttech
Niagara Meters
Parker domnick hunter
Parker Hannifin, Electromechanical
Automation Div
Perigon Intl
Prior Scientific
ProPharma Group

Pyrometer Instrument Co, PMA Process Control Div
Rockwell Automation
Ruland Engineering & Consulting GmbH
Schiff & Co
Siemens Building Technologies
Siemens Process Industries + Drives
SMI
Sparta Systems
Spiroflow Systems
Symetix
Tri-Tronics Co
Werum IT Solutions America
Yokogawa Corp of America

PROCESS DEVELOPMENT/OPTIMIZATION

Advanced Synthesis, Chemical Div
Analytical Spectral Devices
AZO
BIOQUELL, Life Sciences
Chromalox
comes compliance services
Conatech Consulting Group

DCA Design Intl

El Assocs, Designers & Builders
Emerson Process Mgmt, Systems & Solutions
EPCOT Intl
GEA Process Engineering, GEA Pharma Systems
ICONICS

JAF Consulting, Validation & Regulatory Services Consulting

LifeConEx LLC
MagneMotion
Mettler Toledo PCE, Product Inspection
NNE Pharmaplan
Perigon Intl
Process Tek
ProPharma Group
RCM Technologies, Life Sciences

Rockwell Automation Ruland Engineering & Consulting GmbH

Sani-Matic
Siemens Process Industries + Drives
SMI
Sparta Systems
Spiroflow Systems
Stat-Ease

The Center for Professional Innovation & Education

Tunnell Consulting
URS Corp
Werum IT Solutions America

PROCESS MONITORING

ABB Measurement & Analytics
Acromag
Analytical Spectral Devices
Applied Control Engineering
Automated Control Concepts
AZO

For vendor contact information, see Company Directory section.

BinMaster,
Div Garner Industries
Chromalox
Conatech Consulting
Group
Emerson Process
Mgmt, Systems &
Solutions
FSI Technologies
GE Sensing &
Inspection
Technologies
GEA Process
Engineering, GEA
Pharma Systems
I Holland Ltd
ICONICS
Intrasphere
Technologies
Krohne
Lenox Instrument Co
LJ Star
LT Industries
Mesa Labs, Biological
Indicators
Mesa Labs, Cold Chain
Mil-Ram Technology
moistech
Neutronics
NNE Pharmaplan
OPTIMA pharma GmbH
Parker Hannifin,
Electromechanical
Automation Div
Parsec Automation
Corp
Perigon Intl
Process Tek
ProPharma Group
Pyrometer Instrument
Co, PMA Process
Control Div
QualiTru Sampling
Systems
RCM Technologies,
Life Sciences
Rockwell Automation
Ruland Engineering &
Consulting GmbH
Siemens Process
Industries + Drives
Sparta Systems
Testo
Tri-Tronics Co
Tunnell Consulting
Uehling Instrument Co
URS Corp
Vaisala
Werum IT Solutions
America
Yokogawa Corp
of America

PROCESS VALIDATION

ABB Measurement &
Analytics
Advanced Synthesis,
Chemical Div
AZO
Biokinetics
BIOQUELL, Life
Sciences
CALCET Co,
Biopharmaceutical
comes compliance
services
Conatech Consulting
Group
CSSC, A Q Pharma CO
DCA Design Intl
Emerson Process
Mgmt, Systems &
Solutions
Gavin Pharmaceutical
Services
GE Sensing &
Inspection
Technologies
GEA Process
Engineering, GEA
Pharma Systems

Getinge USA,
Life Science
ICONICS
Intellitech
Isolation Systems
JAF Consulting,
Validation &
Regulatory Services
Consulting
Klein Mgmt Systems
LifeConEx LLC
Mesa Labs, Biological
Indicators
Mesa Labs, Cold Chain
Mikart
NNE Pharmaplan
Octagon Research
Solutions
OPTIMA pharma GmbH
PharmaSys
Process Tek
ProcessPro Software,
A Division of Open
Systems
ProPharma Group
QPharma
QualiTru Sampling
Systems
RCM Technologies,
Life Sciences
Regulatory Compliance
Assocs
Ruland Engineering &
Consulting GmbH
Schiff & Co
Siemens Process
Industries + Drives
Sparta Systems
Stat-Ease
The Center for
Professional
Innovation &
Education
TMI USA
Tri-Tronics Co
Tunnell Consulting
URS Corp
Vaisala
ValiMation
VTS Consultants
Werum IT Solutions
America
Yokogawa Corp
of America

PROGRAMMABLE LOGIC CONTROLLERS

ABB, Process
Automation Div
Applied Control
Engineering
AZO
Charles Ross &
Son Co
Chromalox
Festo Corp
GEA Process
Engineering, GEA
Pharma Systems
Isolation Systems
NNE Pharmaplan
Parker domnick hunter
Parker Hannifin,
Electromechanical
Automation Div
Perigon Intl
Rockwell Automation
Sani-Matic
Siemens Process
Industries + Drives
Spiroflow Systems
Yokogawa Corp
of America

PROJECT MANAGEMENT

ABB, Process
Automation Div
Applied Control
Engineering

AZO
Biokinetics
BioProcess Technology
Consultants
Bruker, Daltonics
Camargo
Pharmaceutical
Services
Ce3
comes compliance
services
CSSC, A Q Pharma CO
DCA Design Intl
El Assocs, Designers &
Builders
Emerson Process
Mgmt, Systems &
Solutions
Gavin Pharmaceutical
Services
GEA Process
Engineering, GEA
Pharma Systems
GEMU Valves
ICONICS
International Mfg Assn,
Finance
Intrasphere
Technologies
IPS-Integrated Project
Services LLC
Isolation Systems
JAF Consulting,
Validation &
Regulatory Services
Consulting
Klein Mgmt Systems
NNE Pharmaplan
Octagon Research
Solutions
Optical Image
Technology
Perigon Intl
Process XL Consulting
Group LLC
ProPharma Group
QPharma
RCM Technologies,
Life Sciences
Richman Chemical
Ruland Engineering &
Consulting GmbH
Siemens Process
Industries + Drives
The Center for
Professional
Innovation &
Education
Tunnell Consulting
URS Corp
VTS Consultants
Werum IT Solutions
America

QUALIFICATION STUDIES

Biokinetics
comes compliance
services
CSSC, A Q Pharma CO
Gavin Pharmaceutical
Services
GE Sensing &
Inspection
Technologies
IPS-Integrated Project
Services LLC
JAF Consulting,
Validation &
Regulatory Services
Consulting
NNE Pharmaplan
Process Tek
ProPharma Group
QPharma
Schiff & Co
Sensitech
Tunnell Consulting
Vaisala

QUALITY ASSURANCE AUDITS

Biokinetics
Ce3
comes compliance
services
CSSC, A Q Pharma CO
DJA Global
Pharmaceuticals
Gavin Pharmaceutical
Services
Intrasphere
Technologies
IPS-Integrated Project
Services LLC
JAF Consulting,
Validation &
Regulatory Services
Consulting
Klein Mgmt Systems
Konica Minolta Sensing
Americas
mdiConsultants
NNE Pharmaplan
Octagon Research
Solutions
Process Tek
ProPharma Group
QPharma
Quintiles Consulting
QUMAS - Dassault
Systemes
RCM Technologies,
Life Sciences
Regulatory Compliance
Assocs
Rockwell Automation
Siemens Process
Industries + Drives
Sparta Systems
SSE Technologies
The Center for
Professional
Innovation &
Education
Tunnell Consulting
Validation Assocs
ValiMation
VTS Consultants

REGULATORY AND PART 11 RISK ASSESSMENT

ABB, Process
Automation Div
Applied Control
Engineering
Biokinetics
Bridge Assocs Intl
Ce3
comes compliance
services
CSSC, A Q Pharma CO
Gavin Pharmaceutical
Services
ICONICS
Intrasphere
Technologies
IPS-Integrated Project
Services LLC
JAF Consulting,
Validation &
Regulatory Services
Consulting
Kaplan EduNeering
Klein Mgmt Systems
mdiConsultants
NNE Pharmaplan
Octagon Research
Solutions
PharmaSys
Process Tek
Process XL Consulting
Group LLC
ProPharma Group
QPharma
Quintiles Consulting
QUMAS - Dassault
Systemes
RCM Technologies,
Life Sciences
Ruland Engineering &
Consulting GmbH

Schiff & Co
Siemens Process
Industries + Drives
Sparta Systems
The Center for
Professional
Innovation &
Education
URS Corp
Validation Assocs
ValiMation
VTS Consultants

SCADA Charles Ross & Son Co

ProPharma Group
Rockwell Automation

SECURITY

CustomVault
JAF Consulting,
Validation &
Regulatory Services
Consulting
NNE Pharmaplan
RCM Technologies,
Life Sciences
Rockwell Automation
Sensitech
Siemens Building
Technologies
Siemens Process
Industries + Drives

SENSORS

ACR Systems
Applied Control
Engineering
Ashcroft
BinMaster,
Div Garner Industries
Chromalox
Emerson Process
Mgmt, Systems &
Solutions
Festo Corp
FSI Technologies
GE Sensing &
Inspection
Technologies
Hamilton Co,
Process Analytics
Kistler Morse
Krohne
Lion Precision
Mil-Ram Technology
moistech
Neutronics
NNE Pharmaplan
Parker domnick hunter
Perigon Intl
Rees Scientific
Rockwell Automation
Sensitech
Siemens Process
Industries + Drives
Sierra Instruments
SMI
Tri-Tronics Co
Vaisala
Yokogawa Corp
of America

SERVERS

JAF Consulting,
Validation &
Regulatory Services
Consulting

SMART SENSORS

Applied Control
Engineering
Chromalox
DGH Corp
Festo Corp
FSI Technologies
Hamilton Co,
Process Analytics
Krohne
Mil-Ram Technology

Neutronics
NNE Pharmaplan
Perigon Intl
RCM Technologies,
Life Sciences
Sensitech
Tri-Tronics Co
Vaisala
Yokogawa Corp
of America

SOFTWARE

Academy Savant
Activated Carbon
Services - PACS
Applied Control
Engineering
Blue Mountain Quality
Resources
CyberMetrics Corp
I Holland Ltd
ICONICS
IKA Works

International Centre for Diffraction Data

Intrasphere
Technologies
JAF Consulting,
Validation &
Regulatory Services
Consulting

Rockwell Automation
Sensitech
Siemens Building
Technologies
Siemens Process
Industries + Drives

Katzscan
Klein Mgmt Systems
Krohne
MasterControl
Mettler Toledo PCE,
Product Inspection

Minitab
NNE Pharmaplan
Octagon Research
Solutions
Optical Image
Technology
Parker Hannifin,
Electromechanical
Automation Div

Parsec Automation
Corp
Pilgrim Quality Solutions
Poplar Solutions, LLC
ProcessPro Software,
A Division of Open
Systems

QI Macros for Excel
QUMAS - Dassault
Systemes

RCM Technologies,
Life Sciences
Ruland Engineering &
Consulting GmbH

Sensitech
Siemens Process
Industries + Drives

SMI
Stat-Ease
TAL Technologies

Tuthill Vacuum Blower
Systems
Werum IT Solutions
America

Yokogawa Corp
of America

SOFTWARE VALIDATION

CALCET Co,
Biopharmaceutical
Clinical Systems
comes compliance
services

CyberMetrics Corp
DCA Design Intl
JAF Consulting,
Validation &
Regulatory Services
Consulting

Katzscan
Perkin Elmer Corp,
Environmental Health

ProcessPro Software,
A Division of Open
Systems

For vendor contact information, see Company Directory section.

ProPharma Group
QPharma
QUMAS - Dassault
Systemes
Rockwell Automation
Sensitech

SOP DEVELOPMENT

Applied Control
Engineering
BioProcess Technology
Consultants
CALCET Co,
Biopharmaceutical
comes compliance
services
CSSC, A Q Pharma CO
I Holland Ltd
Intellitech
Intrasphere
Technologies
JAF Consulting,
Validation &
Regulatory Services
Consulting
Katzscan
Klein Mgmt Systems
LifeConEx LLC
MasterControl
NNE Pharmaplan
Octagon Research
Solutions
Process XL Consulting
Group LLC
ProPharma Group
QPharma
RCM Technologies,
Life Sciences
Regulatory Compliance
Assocs
Ruland Engineering &
Consulting GmbH
Schiff & Co
Siemens Process
Industries + Drives
The Center for
Professional
Innovation &
Education

Sensitech
Siemens Process
Industries + Drives
The Center for
Professional
Innovation &
Education

Tunnell Consulting
Validation Assocs
ValiMation

SOP ENFORCEMENT

CSSC, A Q Pharma CO
Intrasphere
Technologies
JAF Consulting,
Validation &
Regulatory Services
Consulting
Kaplan EduNeering
LifeConEx LLC
MasterControl
mdiConsultants
NNE Pharmaplan
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Galbraith Labs
Glatt Pharmaceutical Services

Intertek USA, dba QTI
iuvo BioScience
KBI BioPharma
Libra Technical Center LLC

Lotus Separations LLC

Metrics

Microbac Labs,
Southern Testing & Research Div
MicroTest Labs
National Medical Services,
Biopharmaceutical Support Services

Nelson Labs, LLC

NNE Pharmaplan

Particle Sciences

Patheon

Pharmassist

Phenomenex

PPD

ProteinLabs

PPYRIMID Labs

Q Labs
Quality Chemical Labs
Quantex Labs
Regis Custom Pharma
RJ Lee Group
Sekisui XenoTech

SGS, Life Science Services

Solvias AG
Tedor Pharma
UL Consumer and Retail Services
University of Iowa, Pharmaceuticals

URS Corp

Whitehouse Labs

Wockhardt Contract Services

CHROMATOGRAPHIC ANALYSIS, LC

ALCAMI

Almac Group
Aptuit LLC
Biolink Life Sciences
Boston Analytical
CALCET Co,
Biopharmaceutical

Catalent Pharma Solutions

Celsis, Analytical Services Div
Chemic Labs
ChemPacific Corp
Cherokee Pharmaceuticals
Covance

Dr Reddy's Labs

EAG Labs, Life Sciences

Elemental Analysis, Analytical Testing Lab

Eurofins Lancaster Labs

Eurofins Product Safety Labs
Galbraith Labs
Intertek USA, dba QTI
iuvo BioScience
KBI BioPharma
Libra Technical Center LLC

Metrics

Microbac Labs,
Southern Testing & Research Div
National Medical Services,
Biopharmaceutical Support Services

NNE Pharmaplan

Patheon

Pharmassist

Phenomenex

ProteinLabs

PYRIMID Labs

Q Labs
Quality Chemical Labs
Quantex Labs
Sekisui XenoTech

SGS, Life Science Services

Solvias AG
UL Consumer and Retail Services
Wockhardt Contract Services

CHROMATOGRAPHIC ANALYSIS, LC/MS

ALCAMI

Almac Group
Aptuit LLC
Biolink Life Sciences

Catalent Pharma Solutions

Celsis, Analytical Services Div

Chemic Labs

ChemPacific Corp
Cherokee Pharmaceuticals
Covance
Dr Reddy's Labs
EAG Labs, Life Sciences
Elemental Analysis, Analytical Testing Lab

Eurofins Lancaster Labs

Eurofins Product Safety Labs
Frontage Labs
Intertek USA, dba QTI
iuvo BioScience
KBI BioPharma

Metrics

Microbac Labs,
Southern Testing & Research Div
National Medical Services,
Biopharmaceutical Support Services

NNE Pharmaplan

Particle Sciences

Patheon

Pharmassist

Phenomenex

PPD

ProteinLabs

PYRIMID Labs

Q Labs

QPS

Quality Chemical Labs

Quantex Labs

Sekisui XenoTech

SGS, Life Science Services

Solvias AG

Wockhardt Contract Services

XenoBiotic Labs

CHROMATOGRAPHIC ANALYSIS, OTHER

Advanced Synthesis, Chemical Div

ALCAMI

Biolink Life Sciences

Catalent Pharma Solutions

Celsis, Analytical Services Div

Chemic Labs

Coating Place

Dr Reddy's Labs

EAG Labs, Life Sciences

Elemental Analysis, Analytical Testing Lab

Eurofins Lancaster Labs

Eurofins Product Safety Labs
iuvo BioScience
KBI BioPharma
Lotus Separations LLC
Microbac Labs,
Southern Testing & Research Div

MicroTest Labs

NNE Pharmaplan

Patheon

Pharmassist

Phenomenex

ProteinLabs

PYRIMID Labs

Q Labs

Quality Chemical Labs

Quantex Labs

Sekisui XenoTech

SGS, Life Science Services

Solvias AG

UL Consumer and Retail Services

Wockhardt Contract Services

CHROMATOGRAPHIC ANALYSIS, THIN-LAYER

Advanced Analytical Testing Lab
Advanced Synthesis, Chemical Div

ALCAMI

Boston Analytical

Celsis, Analytical Services Div

Chemic Labs

Cherokee Pharmaceuticals

Coating Place

Covance

Dr Reddy's Labs

EAG Labs, Life Sciences

Elemental Analysis, Analytical Testing Lab

Eurofins Lancaster Labs

Galbraith Labs

Intertek USA, dba QTI

KBI BioPharma

Libra Technical Center LLC

Microbac Labs,

Southern Testing & Research Div

National Medical Services,

Biopharmaceutical Support Services

NNE Pharmaplan

Patheon

Pharmassist

Prevalere Life Sciences LLC, Div

ICON Development Solutions

Q Labs

Quality Chemical Labs

Quantex Labs

SGS, Life Science Services

Solvias AG

UL Consumer and Retail Services

Wockhardt Contract Services

CLINICAL ANALYSIS

Almac Group

AvivoClin Clinical Services

Catalent Pharma Solutions

Ce3

Chemic Labs

Coating Place

Covance

Dr Reddy's Labs

abbvie

CONTRACT MANUFACTURING

Biologics | Potent | Drug Product | Fermentation
Prefilled Syringe | Hot Melt Extrusion | APIs

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EXPERIENCE
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DRUG
PRODUCT

When it comes to delivering drug product,
you need a CMO with longstanding commercial
expertise to ensure fast time to market.



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LEADERSHIP
AWARDS 2017
DEVELOPMENT

CMO
LEADERSHIP
AWARDS 2017
CAPABILITIES

CMO
LEADERSHIP
AWARDS 2017
COMPATIBILITY

CMO
LEADERSHIP
AWARDS 2017
EXPERTISE

CMO
LEADERSHIP
AWARDS 2017
QUALITY

CMO
LEADERSHIP
AWARDS 2017
RELIABILITY

For vendor contact information, see Company Directory section.

EAG Labs, Life Sciences
EMD Millipore, A Div of Merck KGaA Darmstadt Germany
Galbraith Labs
Microbac Labs, Southern Testing & Research Div
MPI Research
NNE Pharmaplan
Prevalere Life Sciences LLC, Div ICON Development Solutions
Schiff & Co
SGS,
Life Science Services
TGA Sciences
The Center for Professional Innovation & Education
Thymed GmbH
XenoBiotic Labs

CLINICAL TRIAL MATERIAL (CTM) MANUFACTURING SERVICES

ALCAMI
Alchem Labs
Almac Group
Aptuit LLC
AvivoClin Clinical Services
Catalent Pharma Solutions
CMIC CMO USA
Coating Place
Corden Pharma
Corealis Pharma
DSM Pharmaceuticals Products
EAG Labs, Life Sciences
Emergent BioSolutions, CMO
Eurogentec
forteq Nidau AG
Glatt Pharmaceutical Services
Hetero, Custom Pharmaceutical Services
Johnson Matthey, Pharmaceutical Materials
Jubilant HollisterStier Labs, Contract Mfg & Services
Juniper Pharma Service
KBI BioPharma
Lonza
Metrics
Mikart
NNE Pharmaplan
Norwich Pharma Services
Particle Sciences
Patheon
Pharma Tech Industries
PharmaDirections
Tapemark
Tedor Pharma
Therapex
University of Iowa, Pharmaceuticals
Vetter Pharma Intl
Wockhardt Contract Services
Zed Industries

CLINICAL TRIAL RANDOMIZATION/LABELING SERVICES

ALCAMI
Almac Group
AvivoClin Clinical Services
Cenduit LLC
Clinical Systems
Corden Pharma
NNE Pharmaplan
Schiff & Co
Tedor Pharma
Therapex

CLINICAL TRIALS PACKAGING

Aenova
ALCAMI
AvivoClin Clinical Services
Biocair
Corden Pharma
EAG Labs, Life Sciences
Pharma Tech Industries
Therapex
University of Iowa, Pharmaceuticals
Zed Industries

COATING AND LAMINATING

Adhesives Research
Almac Group
Catalent Pharma Solutions
CMIC CMO USA
Coating Place
Contract Pharmacal Corp
Corden Pharma
EAG Labs, Life Sciences
General Magnaplate Corp
Glatt Pharmaceutical Services
LTS Lohmann Therapy Systems
Mylan Technologies
Pharmsolv LLC
Restek Corp
Tapemark
Tedor Pharma
University of Iowa, Pharmaceuticals
Xedev

COMMISSIONING SERVICES

Applied Control Engineering
Avid Solutions
CALCET Co, Biopharmaceutical
EAG Labs, Life Sciences
Gavin Pharmaceutical Services
Getinge USA, Life Science
Hosokawa Micron Powder Systems
IPS-Integrated Project Services LLC
Keller Packaging Engineering Group LLC
Nash, by Gardner Denver
NNE Pharmaplan
O'Brien & Gere
Parsons
Pharmaceutical Validation Solutions
ProPharma Group
QPharma
RCM Technologies, Life Sciences
Regulatory Compliance Assocs
URS Corp

COMPENDIAL TESTING (USP, NF, BP, EP, JP)

Advanced Analytical Testing Lab
ALCAMI
Almac Group
Bionique Testing Labs
BioReliance Corp
BioSpectra
Boston Analytical
Catalent Pharma Solutions
Celsis, Analytical Services Div
Chemic Labs
ChemPacific Corp
Cherokee
Pharmaceuticals
CMIC CMO USA

Coating Place

Covance
CPL - Contract Pharmaceuticals Ltd
Dr Reddy's Labs
EAG Labs, Life Sciences
Eurofins Lancaster Labs
Galbraith Labs
Glatt Pharmaceutical Services
Intertek USA, dba QTI
iuvo BioScience
JAF Consulting, Validation & Regulatory Services Consulting
Jubilant HollisterStier Labs, Contract Mfg & Services
Juniper Pharma Service
KBI BioPharma
Libra Technical Center LLC

Metrics

Microbac Labs, Southern Testing & Research Div
Micron Technologies
MicroTest Labs
Nelson Labs, LLC
NNE Pharmaplan
Numare Spectralab, NMR Analytical Lab
PharmaDirections
Pharmassist
PPD
Q Labs
Quality Chemical Labs
Quantex Labs
RJ Lee Group
SGS,
Life Science Services
Solvias AG
Tedor Pharma
UL Consumer and Retail Services
University of Iowa, Pharmaceuticals
Wockhardt Contract Services

CONSTRUCTION AND CONSTRUCTION MANAGEMENT SERVICES

Ambitech Engineering Corp
Biokinetics
CALCET Co, Biopharmaceutical
Crawford Building Consultants
El Assocs, Designers & Builders
Gilbane Building Co, LifeSciences
IPS-Integrated Project Services LLC
Keller Packaging Engineering Group LLC
NNE Pharmaplan
O'Brien & Gere
Parsons
Perigon Intl
Pharmaceutical Validation Solutions
Skanska USA Building
URS Corp
VTS Consultants

CONSULTING SERVICES

Advanced Analytical Testing Lab
Agalocco & Assocs
BioProcess Technology Consultants
Bridge Assocs Intl
Cal Chem
CALCET Co, Biopharmaceutical

comes compliance services
Cygnus Technologies
DCA Design Intl
Diverstech Co
EAG Labs, Life Sciences
El Assocs, Designers & Builders
EPCOT Intl
FabOhio
forteq Nidau AG
International Mfg Assn, Finance
IPS-Integrated Project Services LLC
iuvo BioScience
JAF Consulting, Validation & Regulatory Services Consulting
Katzscan
Microbiological Environments
Molins
Pharma Tech Industries
ProPharma Group
Sensitech
SGS,
Life Science Services
Stat-Ease
Validation Assocs

CONTAINER CLOSURE ANALYSIS

ALCAMI
Catalent Pharma Solutions
Celsis, Analytical Services Div
EAG Labs, Life Sciences
Elemental Analysis, Analytical Testing Lab
Eurofins Lancaster Labs
Jubilant HollisterStier Labs, Contract Mfg & Services
KBI BioPharma
Libra Technical Center LLC
Nelson Labs, LLC
RJ Lee Group
Robert Bosch Packaging Technology, Inspection Technology
Pharma
SGS,
Life Science Services
Solvias AG
UL Consumer and Retail Services
Whitehouse Labs

CUSTOM MANUFACTURING

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Almac Group
Alphora Research
Avid Solutions
Baxter (BioPharma Solutions)
Bell-More Labs
Biologos
BioSpectra
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ChemPacific Corp
Cherokee
Pharmaceuticals
CMIC CMO USA
Coating Place
Corden Pharma
Dr Reddy's Labs

DSM Pharmaceuticals Products
EAG Labs, Life Sciences
Eurogentec
Evonik Corp, Health Care
FAR Chemical
Flanders Corp, Containment Products
forteq Nidau AG
G-M-I
Halo Pharmaceutical
Hetero, Custom Pharmaceutical Services
IPS-Integrated Project Services LLC
Johnson Matthey, Pharmaceutical Materials
Jubilant HollisterStier Labs, Contract Mfg & Services
KBI BioPharma
Lampire Biological Labs
Mendel Co
Nash, by Gardner Denver
Neuland Labs Ltd
Novasep
Ortec
Patheon
Pfizer CentreOne
Pharma Tech Industries
PharmaDirections
Pharmsolv LLC
Plastic Supply of PA
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ProteinLabs

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www.registech.com
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Ruland Engineering & Consulting GmbH
Sani-Matic
Solvias AG
Tapemark
University of Iowa, Pharmaceuticals
Vetter Pharma Intl
Wockhardt Contract Services
Worthington
Biochemical Corp
Zed Industries

CUSTOM PEPTIDE SYNTHESIS

Advanced Synthesis, Chemical Div
Almac Group
BioVectra
Catalent Pharma Solutions
Corden Pharma
Dr Reddy's Labs
DSM Pharmaceuticals Products
EMD Millipore, A Div of Merck KGaA Darmstadt Germany
Eurogentec
Evonik Corp, Health Care
Lampire Biological Labs
Lonza
Neuland Labs Ltd
PharmaDirections
Regis Custom Pharma
Richman Chemical

DATA MANAGEMENT/ STATISTICAL ANALYSIS

Almac Group
Ambitech Engineering Corp
bioRASI LLC

CALCET Co, Biopharmaceutical
comes compliance services
Gilbane Building Co, LifeSciences
ICT Group
JAF Consulting, Validation & Regulatory Services Consulting
Katzscan
Mapi Group, Strategic Regulatory Services
O'Brien & Gere
Octagon Research Solutions
Prevalere Life Sciences LLC, Div ICON Development Solutions
RCM Technologies, Life Sciences
RJ Lee Group
Schiff & Co
Sensitech
SGS,
Life Science Services
SRG Woolf Group
Stat-Ease
The Center for Professional Innovation & Education
URS Corp
Werum IT Solutions America

DECONTAMINATION SERVICES

ABC Actini
ACM, Advanced Cleanroom Microclean
AWS Bio-Pharma Technologies
BIOQUELL, Life Sciences
Cal Chem
Clordis Solutions
IPS-Integrated Project Services LLC
Micro Measurement Labs
NNE Pharmaplan
O'Brien & Gere
Veltek Assocs

DISCOVERY SUPPORT SERVICES

ALCAMI
Aptuit LLC
Biolink Life Sciences
Caliper Life Sciences
Celsis, Analytical Services Div
Chemic Labs
Covance
Dr Reddy's Labs
Eurofins Product Safety Labs
Intertek USA, dba QTI
IPS-Integrated Project Services LLC
MPI Research
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fax 269-668-4151
info@mpiresearch.com
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PharmaDirections
Pion
PPD
QPS
Quantex Labs
Sekisui XenoTech
TGA Sciences



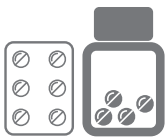
aenova

Global Manufacturing, Local Packaging

Aenova's services cover the entire value chain for the development and production of all the main dosage forms and product groups in pharmaceuticals and dietary supplements. Aenova is one of the leading Contract Manufacturers in the pharmaceutical and healthcare industries...and the right choice for your next project.

In addition to our wide range of manufacturing services, Aenova now offers greatly expanded packaging capabilities. Our packaging services cover not only primary packaging of common solid dose forms into blisters and bottles, but also secondary packaging like clamshells, carding, and display packaging.

Streamline your supply chain with Aenova's combined manufacturing and packaging offerings.



Solids

- Tablets
- Hard Capsules
- Softgel Capsules
- Granules
- Pellets



Liquids & Semi-solids

- Pure or Colloidal Solutions
- Emulsions, Suspensions
- Ointments
- Gels



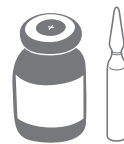
Packaging

- Blisters
- Bottles (Solids & Liquids)
- Cartons
- Labeling
- Pouches



Specialty

- Cytotoxics
- Hormones
- Beta-Lactam Antibiotics
- Cephalosporins



Injectables

- Lyophilization
- Aseptic Manufacturing
- Terminal Sterilization

Members of the Aenova Group

C.P.M. • Dragenopharm • EVP • Haupt Pharma • Swiss Caps • SwissCo • Temmler

For vendor contact information, see Company Directory section.

DISPOSABLE DEVICE DEVELOPMENT AND MANUFACTURING

Advanced Scientific Bioprocess Resources LLC
Dr Geoffrey P Jacobs Assocs
forteq Nidau AG
General Econopak Gerresheimer
IPS-Integrated Project Services LLC
Lonza
NNE Pharmaplan
Novasep
Tapemark
Xcellerex

DISSOLUTION TESTING

Advanced Analytical Testing Lab
ALCAMI
Almac Group
Aptuit LLC
Boston Analytical
Catalent Pharma Solutions
Celsis, Analytical Services Div
Charles River, Microbial Solutions
Chromak Research
CMIC CMO USA
Coating Place
Contract Pharmacal Corp
CPL - Contract Pharmaceuticals Ltd
Dr Reddy's Labs
EAG Labs, Life Sciences
Eurofins Lancaster Labs
Galbraith Labs
Glatt Pharmaceutical Services
Hetero, Custom Pharmaceutical Services
Integrated Service Solutions
Intertek USA, dba QTI
iuvo BioScience
Juniper Pharma Service

Metrics
Microbac Labs, Southern Testing & Research Div
Micron Technologies
MicroTest Labs
NNE Pharmaplan
Norwich Pharma Services
Particle Sciences
Patheon
PharmaDirections
Pharmassist
Pion
PPD
Q Labs
Quality Chemical Labs
Quantex Labs
Sancilio & Co
SGS, Life Science Services
Solvias AG
Tedor Pharma
UL Consumer and Retail Services
University of Iowa, Pharmaceuticals
Whitehouse Labs
Wockhardt Contract Services
Xedev

DNA SEQUENCING
Boston Analytical
Catalent Pharma Solutions

Eurofins Lancaster Labs
Solvias AG

DNA SYNTHESIS
Almac Group
Eurogentec
Lonza

DOCUMENTATION SUPPORT SERVICES

A&B Process Systems Corp, JBT Corporation
Ambitech Engineering Corp
Aptuit LLC
Biolink Life Sciences
BioReliance Corp
Cal Chem
Chemic Labs
CMIC CMO USA
Coating Place
Dr Reddy's Labs
Eurofins Product Safety Labs
Gilbane Building Co, LifeSciences
iuvo BioScience
JAF Consulting, Validation & Regulatory Services Consulting
Jubilant HollisterStier Labs, Contract Mfg & Services
Lonza
Mapi Group, Strategic Regulatory Services
NNE Pharmaplan
Norwich Pharma Services
O'Brien & Gere
PAREXEL Consulting
Pharmaceutical Resource Group
PharmaDirections
QPharma
RCM Technologies, Life Sciences
Schiff & Co
SRG Woolf Group
UL Consumer and Retail Services
URS Corp
VTS Consultants

DRUG MASTER FILE ESTABLISHMENT AND MAINTENANCE

Agalocco & Assocs
ALCAMI
Aptuit LLC
Biolink Life Sciences
BioProcess Technology Consultants
BioReliance Corp
Catalent Pharma Solutions
Chemic Labs
Cherokee Pharmaceuticals
Coating Place
DJA Global
Pharmaceuticals
Dr Reddy's Labs
Mapi Group, Strategic Regulatory Services
Novasep
PAREXEL Consulting
Pharmaceutical Resource Group
PharmaDirections
Pharmalink Consulting
Regulatory Compliance Assocs
Schiff & Co
The Center for Professional Innovation & Education

EFFUSIVITY TESTING
Chemic Labs
NNE Pharmaplan

ELECTRODIALYSIS
Novasep

ELECTROPLATING

Apache Stainless Equipment Corp
Beamalloy Technologies LLC
New England Electropolishing Co

ELECTROPOLISHING

A&B Process Systems Corp, JBT Corporation
Allegheny Bradford Corp, Corporate
Allegheny Surface Technology
Apache Stainless Equipment Corp
Beamalloy Technologies LLC
Bergen Industrial Supply Co
Cal Chem
Ruland Engineering & Consulting GmbH
Top Line Process Equipment Co

ENCAPSULATION

Accucaps Industries Ltd
Enova
ALCAMI
Almac Group
Catalent Pharma Solutions
Chromak Research
CMIC CMO USA
Coating Place
Contract Pharmacal Corp
Corden Pharma
Dr Reddy's Labs
Glatt Pharmaceutical Services
Hovione
Michael Benalt
Mikart
Norwich Pharma Services
Particle Sciences
Patheon
Pfizer CentreOne
Pharmsolv LLC
PIL
Ruger Chemical Co
Sancilio & Co
Sonic Packaging Industries
Tedor Pharma
Thar Process
University of Iowa, Pharmaceuticals
Vernon Walden
Wockhardt Contract Services
Xedev

ENGINEERING AND DESIGN SERVICES

A&B Process Systems Corp, JBT Corporation
ADI Systems
Agalocco & Assocs
Almac Group
Ambitech Engineering Corp
Apache Stainless Equipment Corp
Applied Control Engineering
ATS Automation Tooling Systems
Automated Control Concepts
Avo Photonics
AWS Bio-Pharma Technologies
Biokinetics
CALCET Co, Biopharmaceutical

Conatech Consulting Group
Crawford Building Consultants
DCA Design Intl
De Dietrich Process Systems
Diamondback Technology
DME
EAG Labs, Life Sciences
EHS Solutions LLC
EI Assocs, Designers & Builders
First Sensor
forteq Nidau AG
FSI Technologies
IPS-Integrated Project Services LLC
Isolation Systems
Keller Packaging Engineering Group LLC
Lonza
Mott MacDonald
Nash, by Gardner Denver
NNE Pharmaplan
Novasep
O'Brien & Gere
Parsons
Perigon Intl
pixon engineering AG
RCM Technologies, Life Sciences
Regulatory Compliance Assocs
Robert C Vincek Design Assocs LLC
SPX Flow
Thar Process
URS Corp
Xcellerex

ENVIRONMENTAL ANALYSIS, AIR

Activated Carbon Services - PACS
Advanced Analytical Testing Lab
Atlas Analytical
Biotech Diagnostics Corp
Celsis, Analytical Services Div
Eurofins Lancaster Labs
Galbraith Labs
Isolation Systems
iuvo BioScience
Jubilant HollisterStier Labs, Contract Mfg & Services
Microbac Labs, Southern Testing & Research Div
Microbiological Environments
Microbiology Research Assocs
MicroTest Labs
Nelson Labs, LLC
O'Brien & Gere
Pace Analytical
Del Caribe
ProPharma Group
Q Labs
RJ Lee Group
SGS, Life Science Services
URS Corp

ENVIRONMENTAL ANALYSIS, SOIL

Activated Carbon Services - PACS
Bioscience
Biotech Diagnostics Corp
EAG Labs, Life Sciences

Eurofins Lancaster Labs
Galbraith Labs
Microbac Labs,
Southern Testing & Research Div
O'Brien & Gere
Pace Analytical
Del Caribe
RJ Lee Group
URS Corp

ENVIRONMENTAL ANALYSIS, WATER

Activated Carbon Services - PACS
Advanced Analytical Testing Lab
ALCAMI
Analytical Services
Atlas Analytical
Bioscience
Catalent Pharma Solutions
Celsis, Analytical Services Div
Cherokee Pharmaceuticals
EAG Labs, Life Sciences
Eurofins Lancaster Labs
Galbraith Labs
iuvo BioScience
Jubilant HollisterStier Labs, Contract Mfg & Services
Microbac Labs, Southern Testing & Research Div
Microbiological Environments
Microbiology Research Assocs
MicroTest Labs
Nelson Labs, LLC
O'Brien & Gere
Pace Analytical
Del Caribe
ProPharma Group
Q Labs
RJ Lee Group
SGS, Life Science Services
Solvias AG
URS Corp

ENVIRONMENTAL COMPLIANCE TESTING

ACM, Advanced Cleanroom Microclean
Activated Carbon Services - PACS
Advanced Analytical Testing Lab
Air Filtration Mgmt
Biotech Diagnostics Corp
Catalent Pharma Solutions
EAG Labs, Life Sciences
Eurofins Lancaster Labs
Galbraith Labs
iuvo BioScience
Mapi Group, Strategic Regulatory Services
Microbac Labs, Southern Testing & Research Div
MicroTest Labs
Mott MacDonald
NNE Pharmaplan
O'Brien & Gere
Pace Analytical
Del Caribe
PharmaSys
ProPharma Group
RJ Lee Group
URS Corp
Vindon Scientific

EQUIPMENT PREVENTIVE MAINTENANCE

Advanced Analytical Testing Lab
Allegheny Surface Technology
BIOQUELL, Life Sciences
Cal Chem
CALCET Co, Biopharmaceutical
Freestead Process Technology Ltd
Getinge USA, Life Science
Ingersoll-Rand, Compressed Air Solutions
Integrated Service Solutions
Jaygo
Jubilant HollisterStier Labs, Contract Mfg & Services
Julabo USA
Molins
Nash, by Gardner Denver
NNE Pharmaplan
Paul Mueller Co
Pharmaceutical Validation Solutions
Qualicaps
RCM Technologies, Life Sciences
Robert Bosch Packaging Technology, Inspection Technology
Pharma
Ruland Engineering & Consulting GmbH
Sani-Matic

EQUIPMENT REFBISHING

Allegheny Surface Technology
ATS RheoSystems, Cannon Instrument Co
Freund-Vector Corp
Integrated Containment Systems
Jaygo
Michael Benalt
Nash, by Gardner Denver

EXCIPIENT GMP AUDITING

Advanced Analytical Testing Lab
BioProcess Technology Consultants
Chemic Labs
Cherokee Pharmaceuticals
DJA Global Pharmaceuticals
JAF Consulting, Validation & Regulatory Services Consulting
Libra Technical Center LLC
mdiConsultants
PAREXEL Consulting
Pharmaceutical Validation Solutions
PharmaDirections
PharmaSys
Regulatory Compliance Assocs
Ruland Engineering & Consulting GmbH
The Center for Professional Innovation & Education
UL Consumer and Retail Services
URS Corp



CORDENPHARMA
EXPERTS TAKING CARE

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FOR A GLOBAL MARKET**

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TECHNOLOGY
PLATFORMS



PEPTIDES,
OLIGONUCLEOTIDES,
LIPIDS &
CARBOHYDRATES



HIGHLY POTENT
& ONCOLOGY



INJECTABLES



SMALL
MOLECULES



ANTIBIOTICS

VISIT US AT

Bio 2017 > Stand 3116
June 19–22
San Diego, CA USA

**American Peptide
Symposium > Stand 7**
June 17–21
Whistler, BC Canada

For vendor contact information, see Company Directory section.

EXECUTIVE RECRUITMENT

Advanced Analytical Testing Lab
RCM Technologies, Life Sciences
SRG Woolf Group

EXPERT TESTIMONY

Activated Carbon Services - PACS
Agaloco & Assocs
Aptuit LLC
Biolink Life Sciences
BioProcess Technology Consultants

Chemic Labs

Chilworth Global
Chromak Research
CMIC CMO USA
Conatech Consulting Group
Dr Geoffrey P Jacobs Assocs

EAG Labs, Life Sciences
Emerson Resources
Gavin Pharmaceutical Services

JB Assocs
Libra Technical Center LLC

MicroTest Labs
National Medical Services, Biopharmaceutical Support Services

Numare Spectralab, NMR Analytical Lab

O'Brien & Gere
PAREXEL Consulting
Perigon Intl
ProPharma Group
RJ Lee Group
Schiff & Co
Tedor Pharma
UL Consumer and Retail Services

EXPLOSION TESTING SERVICES

Chilworth Global

EXTRACTABLES, LEACHABLES ANALYSIS

ALCAMI

Bioprocess Resources LLC

Catalent Pharma Solutions

Celsis, Analytical Services Div

Chemic Labs

Cherokee Pharmaceuticals
Covance
EAG Labs, Life Sciences

Eurofins Lancaster Labs

Galbraith Labs
Intertek USA, dba QTI
iuvo BioScience
KBI BioPharma
Lonza

MicroTest Labs

Nelson Labs, LLC

NNE Pharmaplan

Patheon

Pfizer CentreOne

PharmaDirections

Pharmassist

PPD

Quality Chemical Labs

Quantex Labs

RJ Lee Group

SGS,

Life Science Services

Solvias AG

UL Consumer and Retail Services

FERMENTATION

Advanced Synthesis, Chemical Div
Biokinetics
BioReliance Corp
BioVectra

CALCET Co, Biopharmaceutical

Cherokee Pharmaceuticals

Emergent BioSolutions, CMO

Eurogentec

Evonik Corp, Health Care

Integrated Service Solutions

KBI BioPharma

Lonza

NNE Pharmaplan

Pfizer CentreOne

PharmaDirections

ProteinLabs

Ruland Engineering & Consulting GmbH

Worthington

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Corden Pharma
 Cygnus Technologies
 EAG Labs, Life Sciences
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 Analytical Testing Lab
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Lonza
Microbiological Environments
Microbiology Research Assocs
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PharmaDirections
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ProPharma Group
Q Labs
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Solvias AG
Therapex
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Catalent Pharma Solutions
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Particle Sciences
Patheon
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Goodwin Biotechnology
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Jubilant HollisterStier Labs, Contract Mfg & Services
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Juniper Pharma Service
Lonza
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Morre-Tec Industries
Particle Sciences
PharmaDirections
Shamrock Technologies
Thar Process
University of Iowa, Pharmaceuticals

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Catalent Pharma Solutions
Charles River, Microbial Solutions
Cherokee Pharmaceuticals
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MicroTest Labs
Pace Analytical
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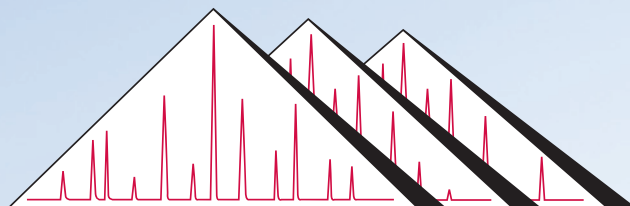
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Quality Chemical Labs
Regis Custom Pharma
RJ Lee Group

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Retail Services
Whitehouse Labs
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Eurofins Lancaster Labs
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Hosokawa Micron
Powder Systems
Hovione
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Juniper Pharma Service
Micro Measurement
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Micromeritics
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Micron Technologies
MicroTest Labs
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RJ Lee Group
Shamrock Technologies
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Covance
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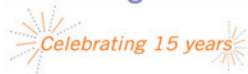
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ALCAMI
Aptuit LLC
AWS Bio-Pharma
Technologies

Baxter (BioPharma
Solutions)
BioReliance Corp
**Catalent Pharma
Solutions**
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Corden Pharma
DSM Pharmaceuticals
Products
Emergent BioSolutions,
CMO
Evonik Corp,
Health Care
Goodwin Biotechnology

.....
Grand River
Aseptic Mfg
616-678-2400
bd@grandriverasepticmfg.com
www.grandriverasepticmfg.com

.....
See ad on page 113
.....

Hetero, Custom
Pharmaceutical
Services
Jubilant HollisterStier
Labs, Contract Mfg &
Services
KBI BioPharma
MicroTest Labs
NNE Pharmaplan
Parenteral Drug Assn
(PDA)
Patheon
Pfizer CentreOne
PharmaDirections
Process Tek
PYRAMID Labs
University of Iowa,
Pharmaceuticals
Vetter Pharma Intl
Wockhardt Contract
Services

STERILITY TESTING

Advanced
Biotechnologies
ALCAMI
Almac Group
Atlas Analytical
Bionique Testing Labs
BioReliance Corp
Boston Analytical
**Catalent Pharma
Solutions**
Celsis, Analytical
Services Div
**Charles River,
Microbial Solutions**
Covance
DDL
Dr Reddy's Labs
**Eurofins Lancaster
Labs**
iuvo BioScience
Lonza
Mesa Labs, Biological
Indicators
Microbiological
Environments
Microbiology Research
Assocs
MicroTest Labs
Nelson Labs, LLC
NNE Pharmaplan
Pace Analytical
Del Caribe
Pall Life Sciences,
Biopharmaceuticals
Parenteral Drug Assn
(PDA)
Patheon
PharmaDirections
Process Tek
Quality Chemical Labs

**STRAIN
IMPROVEMENT**

DSM Pharmaceuticals
Products
Evonik Corp,
Health Care
Lonza

**STERILIZATION
SERVICES**

Advanced Scientific
Agaloco & Assocs
Belimed, Scientific Div
Carltext
**Catalent Pharma
Solutions**
Clordisys Solutions
Corden Pharma
Dr Geoffrey P Jacobs
Assocs
E-BEAM Services
ETC, Sterilization
Systems
iuvo BioScience
Microbiology Research
Assocs
Nelson Labs, LLC
NNE Pharmaplan
Pall Life Sciences,
Biopharmaceuticals
Parenteral Drug Assn
(PDA)
PPD
Process Tek
Regulatory Compliance
Assocs
Rockwell Automation
University of Iowa,
Pharmaceuticals
Wheaton Industries,
Wheaton Science
Packaging

STORAGE SERVICES

Almac Group
Bioair
BioReliance Corp
**Catalent Pharma
Solutions**
Ce3
Celsis, Analytical
Services Div
Chemic Labs
Cherokee
Pharmaceuticals
Chromak Research
EAG Labs, Life Sciences

STORAGE SERVICES

**Eurofins Lancaster
Labs**
Frontage Labs
iuvo BioScience
Pharmassit
Prevalere Life
Sciences LLC, Div
ICON Development
Solutions
Quality Chemical Labs
**Regis Custom Pharma
SGS,**
**Life Science
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TGA Sciences
TRS Containers
Vindon Scientific
Vindonwestech

**STRAIN
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DSM Pharmaceuticals
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Health Care
Lonza

**SUPPORT SERVICES,
CUSTOM**

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Biolink Life Sciences
Cal Chem
**Catalent Pharma
Solutions**
Dr Reddy's Labs
EAG Labs, Life Sciences
ICT Group
Integrated Service
Solutions
Juniper Pharma Service
Lampire Biological Labs
Mapi Group, Strategic
Regulatory Services
NNE Pharmaplan

ProPharma Group
VTS Consultants
VWR Intl LLC

SURFACE-AREA ANALYSIS

Activated Carbon Services - PACS
Biotest Diagnostics Corp

Chemic Labs

Dr Reddy's Labs
EAG Labs, Life Sciences
Micromeritics Analytical Services
Micromeritics Instrument Corp
Micon Technologies
MicroTest Labs
Particle Sciences
Particle Technology Labs
Quantachrome Instruments
RJ Lee Group

SUSTAINED-RELEASE DELIVERY SYSTEMS

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Aveva Drug Delivery Systems

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Coating Place
Evonik Corp, Health Care
Glatt Pharmaceutical Services
Juniper Pharma Service
Mikart

Mylan Technologies
Particle Sciences
Patheon
Pharma Tech Industries
Pharmsolv LLC
RJ Lee Group
Sancilio & Co
Tapemark
Tedor Pharma
Wockhardt Contract Services

SYNTHESIS, DNA

Eurogentec
Lonza
VWR Intl LLC

SYNTHESIS, PEPTIDE

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BioVectra
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Corden Pharma
Dr Reddy's Labs
Eurogentec
Evonik Corp, Health Care
Lampire Biological Labs
Lonza
Neuland Labs Ltd
PharmaDirections
Richman Chemical
VWR Intl LLC

SYRINGE FILLING

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Baxter (BioPharma Solutions)
Catalent Pharma Solutions
Corden Pharma
Grand River Aseptic Mfg
IVEK Corp
Michael Benalt

MicroTest Labs
NNE Pharmaplan
Patheon
Pfizer CentreOne
PharmaDirections
PYRAMID Labs
Sonic Packaging Industries
Vetter Pharma Intl
Wockhardt Contract Services

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ALCAMI
Almac Group
CALCET Co,
Biopharmaceutical

Catalent Pharma Solutions
CMIC CMO USA
Coating Place
Corden Pharma
Dr Reddy's Labs
EAG Labs, Life Sciences
Emerson Resources
Evonik Corp, Health Care

Glatt Pharmaceutical Services
Halo Pharmaceutical

Metrics

Michael Benalt
Mikart
Molins
NNE Pharmaplan
Norwich Pharma Services
Patheon
Pfizer CentreOne
Pharma Tech Industries
PharmaDirections
Pharmsolv LLC
PIL
Tedor Pharma
University of Iowa, Pharmaceuticals
Wockhardt Contract Services
Xedev

TABLET PRESS REBUILDING

AC Compacting LLC
Fette Compacting America
HealthStar
Mendel Co
Michael Benalt
NNE Pharmaplan

TECHNOLOGY TRANSFER

Advanced Synthesis, Chemical Div
Aenova
Agalocco & Assocs
Almac Group
Aptuit LLC
Biolink Life Sciences
BioProcess Technology Consultants
Catalent Pharma Solutions
Celsis, Analytical Services Div
Chiral Quest
CMIC CMO USA
Coating Place
Corden Pharma
Corealis Pharma
CPL - Contract Pharmaceuticals Ltd
Dr Reddy's Labs
DSM Pharmaceuticals Products
Emergent BioSolutions, CMO
Glatt Pharmaceutical Services
KBI BioPharma
Lonza
Metrics

Microbac Labs,
Southern Testing & Research Div
Neuland Labs Ltd
NNE Pharmaplan
Norwich Pharma Services
Patheon
Pfizer CentreOne
Pharma Tech Industries
Pharma-Bio Serv Pharmaceutical Resource Group
PharmaDirections
Process Tek
Regulatory Compliance Assocs
Tedor Pharma
Therapex
Tunnell Consulting
Vetter Pharma Intl
Wockhardt Contract Services
Xcellerex
Xedev

THERMO-GRAVIMETRIC ANALYSIS

Activated Carbon Services - PACS

ALCAMI

Catalent Pharma Solutions
Celsis, Analytical Services Div
Chemic Labs
Cherokee Pharmaceuticals

Eurofins Lancaster Labs

Eurofins Product Safety Labs
Galbraith Labs
iuvo BioScience
Particle Sciences
Particle Technology Labs
Prevalere Life Sciences LLC, Div
ICON Development Solutions

RJ Lee Group
SGS, Life Science Services
University of Iowa, Pharmaceuticals

THERMOPLASTIC EXTRUSION

Flex Products
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Particle Sciences
Reiss Mfg, Ronsil
Rubber & Kentron
Plastics Divs
Tedor Pharma

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G-M-I
Integrated Containment Systems
Particle Sciences
Pharma Tech Industries
Pharmsolv LLC
Zed Industries

TORQUE TESTING

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SMI
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Eurofins Product Safety Labs
Frontage Labs
iuvo BioScience
Lampire Biological Labs
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MPI Research
Nelson Labs, LLC
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ProPharma Group
Regis Custom Pharma
Sekisui XenoTech
Solvias AG
TGA Sciences

TRACE METAL ANALYSIS, AA

Activated Carbon Services - PACS

ALCAMI

Almac Group
BioSpectra
Catalent Pharma Solutions
Celsis, Analytical Services Div

Chemic Labs

Cherokee Pharmaceuticals
EAG Labs, Life Sciences
Eurofins Lancaster Labs

Eurofins Product Safety Labs
Galbraith Labs
Intertek USA, dba QTI

Metrics

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Southern Testing & Research Div
National Medical Services,
Biopharmaceutical Support Services
Pace Analytical
Del Caribe

PPD

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Quality Chemical Labs
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TRACE METAL ANALYSIS, ICP

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Elemental Analysis, Analytical Testing Lab
Eurofins Lancaster Labs

Galbraith Labs
Intertek USA, dba QTI
Jubilant HollisterStier Labs, Contract Mfg & Services
Libra Technical Center LLC

Metrics

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Southern Testing & Research Div
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CALCET Co,
Biopharmaceutical
Chilworth Global
Chromak Research
Cleanroom Mgmt Assocs
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CSSC, A Q Pharma CO
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Emerson Resources
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MicroTest Labs
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Octagon Research Solutions
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Parsons
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Pharma-Bio Serv
PharmaSys
Process Tek
ProPharma Group
QPharma
Quantex Labs
RCM Technologies, Life Sciences
Regulatory Compliance Assocs
Research Dynamics Consulting Group Ltd
Restek Corp
Sartorius Stedim North America

SBM Schoeller-Bleckmann
Medizintechnik, A Bosch Packaging Technology Company
Schiff & Co
Siemens Building Technologies
Siemens Process Industries + Drives
Spirax Sarco
SRG Woolf Group
Stat-Ease
The Center for Professional Innovation & Education
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Veltex Assocs
VTS Consultants
Xedev

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Academy Savant
I Holland Ltd
JAF Consulting, Validation & Regulatory Services Consulting
Micron Video Intl
Parenteral Drug Assn (PDA)
Process Tek
The Center for Professional Innovation & Education

TRAINING, CGMP/HPB/FDA COMPLIANCE

ACM, Advanced Cleanroom Microclean
Advanced Analytical Testing Lab
Agalocco & Assocs
Biokinetics
Biolink Life Sciences
BioProcess Technology Consultants
CALCET Co,
Biopharmaceutical
Catalent Pharma Solutions
Ce3
Chromak Research
Cleanroom Mgmt Assocs
comes compliance services
CSSC, A Q Pharma CO
Diverstech Co
IPS-Integrated Project Services LLC
JAF Consulting, Validation & Regulatory Services Consulting
Micron Video Intl
MicroTest Labs
NNE Pharmaplan
Parenteral Drug Assn (PDA)
PAREXEL Consulting
Perigon Intl
Pharma-Bio Serv
Pharmaceutical Validation Solutions
PharmaSys
Process Tek
ProPharma Group
QPharma
Quantex Labs
Quantiles Consulting
RCM Technologies, Life Sciences
Regulatory Compliance Assocs
Schiff & Co
The Center for Professional Innovation & Education

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The Center for Professional Innovation & Education
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Tunnell Consulting
UL Consumer and Retail Services
URS Corp
Veltek Assocs
VTS Consultants
Whitehouse Labs

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MicroTest Labs
PPD
SGS, Life Science Services
Solvias AG

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Chromak Research
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Eurofins Product Safety Labs
Fortitech
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Libra Technical Center LLC
LT Industries
Microbac Labs, Southern Testing & Research Div

Microbiological Environments
Q Labs
Quantex Labs
Sancilio & Co
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WASTE SOLIDIFICATION PRODUCTS AND CONSULTING

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O'Brien & Gere
S&G Enterprises

WASTE TREATMENT CONSULTING

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ADI Systems
Bioscience
EPCOT Intl
IPS-Integrated Project Services LLC
Mott MacDonald
NNE Pharmaplan
O'Brien & Gere
Parsons
Purolite
URS Corp

WATER TESTING, CHEMICAL

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Advanced Synthesis, Chemical Div

ALCAMI

Almac Group
Associates of Cape Cod
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Catalent Pharma Solutions

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Cherokee Pharmaceuticals
Elemental Analysis, Analytical Testing Lab
Eurofins Lancaster Labs

iuvo BioScience
Libra Technical Center LLC
Microbac Labs, Southern Testing & Research Div
Microbiological Environments
MicroTest Labs
Nelson Labs, LLC
O'Brien & Gere
Pace Analytical
Del Caribe
Pharmassit
ProPharma Group
Purolite
Q Labs
Quality Chemical Labs
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The Center for Professional Innovation & Education
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URS Corp
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WATER TESTING, MICROBIOLOGY

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Analytical Services
Atlas Analytical

Bioscience
Boston Analytical

Catalent Pharma Solutions

Celsis, Analytical Services Div
Charles River, Microbial Solutions

Cherokee Pharmaceuticals

Eurofins Lancaster Labs

iuvo BioScience
Libra Technical Center LLC
Lonza
Microbac Labs, Southern Testing & Research Div
Microbiological Environments
Microbiology Research Assocs
MicroTest Labs
Nelson Labs, LLC
O'Brien & Gere
Pace Analytical
Del Caribe
ProPharma Group
Purolite
Q Labs
Quality Chemical Labs
SGS, Life Science Services

Solvias AG
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UL Consumer and Retail Services
Whitehouse Labs
Xylem Services GmbH

WATER TREATMENT CONSULTING

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MECO
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URS Corp
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Advanced Analytical Testing Lab
Advanced Synthesis, Chemical Div

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Biolink Life Sciences
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Catalent Pharma Solutions
Celsis, Analytical Services Div
Chemic Labs

Cherokee Pharmaceuticals
Chromak Research
CMIC CMO USA
Coating Place
EAG Labs, Life Sciences
Elemental Analysis, Analytical Testing Lab
Eurofins Lancaster Labs
Eurofins Product Safety Labs
Galbraith Labs
iuvo BioScience
Jubilant HollisterStier Labs, Contract Mfg & Services
Juniper Pharma Service
Libra Technical Center LLC
Microbac Labs, Southern Testing & Research Div
Microbiological Environments
MicroTest Labs
O'Brien & Gere
Pace Analytical
Del Caribe
Pharmassit
Prevalere Life Sciences LLC, Div
ICON Development Solutions
Q Labs
Quality Chemical Labs
Regis Custom Pharma
RJ Lee Group
SGS, Life Science Services
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Regulatory and Standard Setting Organizations

AMERICAS

Brazil

Ministry of Health

Esplanada dos Ministérios
Bloco G
Brasília/DF, Brazil
CEP: 70058-900
Tel. +55 61 3315 2425
saude.gov.br

Brazilian Health Surveillance Agency (ANVISA)

Setor de Indústria e Abastecimento
Trecho 5, Área Especial 57
Brasília (DF)
CEP: 71205-050
Tel. +55 0800 642 9782
www.anvisa.gov.br

Canada

Health Canada

Address Locator 0900C2
Ottawa, ON K1A 0K9
Canada
Tel. 866 225 0709
Fax 613 941 5366
www.hc-sc.gc.ca

Health Products and Food Branch Inspectorate

Director General's Office
Graham Spry Building
Address Locator: 2003D
Ottawa, Ontario

K1A 0K9
Tel. 800 267 9675
Fax 613 952 9805
www.hc-sc.gc.ca

Mexico

Ministry of Health

Lieja No. 7
Col. Juárez Deleg.
Cuauhtémoc D.F.
C.P. 06600, Mexico
Tel. +52 5005 4000
www.gob.mx/salud

Federal Commission for Protection Against Health Risks

Oklahoma 14
Col. Nápoles
Delegación Benito Juárez
México, D.F. C.P. 03810
Tel. +52 5080 5200
www.cofepris.gob.mx

United States of America Food and Drug Administration

10903 New Hampshire Ave.
Silver Spring, MD
20993-0002, USA
Tel. 888 463 6332
www.fda.gov

International Pharmaceutical Excipients Council of the Americas

3138 N. 10th Street
Suite 500

Arlington, VA 22201, USA
Tel. 571 814 3449
www.ipecamericas.org

United States Pharmacopeia

12601 Twinbrook Parkway
Rockville, MD
20852-1790, USA
Tel. 800 227 8772
www.usp.org

ASIA-PACIFIC

Australia

Australian Therapeutic Goods Administration

PO Box 100
Woden ACT 2606, Australia
Tel. +61 1800 020 653
Fax +61 02 6203 1605
www.tga.gov.au

China

Chinese Pharmacopoeia Commission: Beijing WEIBIAO Center for Drug Standard Research & Development

Building No. 11, Fahua Nanli,
Tiyuguan Road, Beijing
100061 P.R. China
Tel. +86 10 67079644
Fax +86 10 67152766
www.chp.org.cn

International Pharmaceutical Excipients Council of China

Maples International Center
No.32, Xizhimen North St.,
Room 1106, 11th Floor
Office Bldg. B
Haidian District, Beijing,
100082, PRC
Tel. +86 10 82212866 6008
www.ipecc-china.org

National Institutes of Food and Drug Control

2 Tiantan Xi Li
Beijing 100050 China
www.nicpbp.org.cn

State Food and Drug Administration

26 Xuanwumen Xidajie
Beijing, 100053
P.R. China
Fax +86 010 68310909
eng.sfda.gov.cn

India**Central Drugs Standard Control Organization**

Directorate General
of Health Services
Ministry of Health
and Family Welfare
FA Bhavan, ITO, Kotla Road
New Delhi 110002 India
Tel. +91 11 23236975
Fax +91 11 23236973
www.cdsc.nic.in

Department of Health Research

Indian Council
of Medical Research
2nd Floor, IRCS Building
1, Red Cross Road,
New Delhi 110001 India
Tel. +91 11 23736081-82
www.dhr.gov.in

Japan**International Pharmaceutical Excipients Council of Japan (JPEC)**

No. 9-16 Kuzute north
Chiyoda-ku, Tokyo 102-
0073 Ku-tai
Ka Building 2F, Japan
Tel. +81 3 5275 1358
Fax +81 3 5275 5418
www.jpec.gr.jp

Ministry of Health, Labour, and Welfare

1-2-2 Kasumigaseki
Chiyoda-ku
Tokyo 100-8916 Japan
Tel. +81 03 5253 1111
www.mhlw.go.jp

National Institute of Health Sciences

Kamiyoga 1-18-1,
Setagaya-ku
Tokyo 158-8501 Japan
Tel. +81 3 3700 1141
Fax +81 3 3707 6950
www.nihs.go.jp

Pharmaceuticals and Medical Devices Agency

Shin-Kasumigaseki Bldg.
3-3-2 Kasumigaseki
Chiyoda-ku
Tokyo 100-0013 Japan
Tel. +81 3 3506 9456
Fax +81 3 3506 9572
www.pmda.go.jp

Malaysia**Institute for Medical Research**

Jalan Pahang 50588
Kuala Lumpur, Malaysia
Tel. +60 3 2616 2666
Fax +60 3 2693 9335
www.imr.gov.my

National Pharmaceutical Control Bureau

Lot 36, Jalan Universiti
46200 Petaling Jaya
Selangor Darul Ehsan
Malaysia
Tel. +60 3 7883 5400
Fax +60 3 7956 2924
www.bpfk.gov.my

New Zealand**New Zealand Medicines and Medical Devices Safety Authority**

PO Box 5013
Wellington 6145
New Zealand
Tel. +64 04 819 6800
www.medsafe.govt.nz

South Korea**Ministry of Food and Drug Safety**

Osong Health Technology
Administration
Complex, 187 Osongsaeng-
myeong2-ro, Osong-eup,
Heungdeok-gu cheongju-
si, Chungcheongbuk-do,
28159 Korea
www.kfda.go.kr

Vietnam**Ministry of Health**

138A Giang Vo
Ba Dinh, Ha Noi, Vietnam
Tel. +84 6273227
Fax +84 38464051
www.moh.gov.vn

EURASIA**Russia****Russian Ministry of Health**

Rakhmanovski
pereulok 3/25
127994 Moscow
Russian Federation
Tel. +7 495 627-24-00
www.rosminzdrav.ru

Turkey**Ministry of Health**

Kültür Mah. İçel Sokak No:
2, 06420 Kızılay-Çankaya/
ANKARA
Tel. +90 312 585 67 00
www.saglik.gov.tr

EUROPE**European Chemicals Agency**

PO Box 400,
FI-00121 Helsinki, Finland
Tel. +358 9 686180
echa.europa.eu

European Commission

170 Wetstraat/Rue de la Loi
1040 Brussels, Belgium
Tel. +32 299 96 96
ec.europa.eu

European Directorate for the Quality of Medicines and Healthcare (Council of Europe and Pharmacopoeia)

7 allée Kastner, CS 30026
F67081 Strasbourg, France
Tel. +33 3 88 41 30 30
Fax +33 3 88 41 27 71
www.edqm.eu

European Free Trade Association

9-11, rue de Varembe
1211 Geneva 20, Switzerland
Tel. +41 22 332 26 00
Fax +41 22 332 26 77
www.efta.int

European Medicines Agency

Address as of May 17, 2017:
30 Churchill Place
Canary Wharf
London E14 5EU,
United Kingdom
Tel. +44 20 3660 6000
Fax +44 (0)20 3660 5555
www.ema.europa.eu

International Pharmaceutical Excipients Council of Europe

Rue du Luxembourg, 16B
B-1000 Brussels
Belgium
Tel. +32 2 213 74 40
www.ipecc-europe.org

Belgium**Federal Public Service: Health, Food Chain Safety, and Environment**

Eurostation II, Place Victor
Horta, 40 box 10, 1060 Brus-
sels, Belgium
Tel. +32 2 524 97 97
www.health.belgium.be

France**National Security Agency of Medicines and Health Products**

143/147 bd. Anatole
France
93285 Saint-Denis, France
Tel. +33 1 55 87 30 00
www.ansm.sante.fr

Germany**Federal Ministry of Health**

Rochusstraße 1
53123 Bonn, Germany
Tel. +49 030 18441 0
Fax +49 030 18441 4900
www.bmg.bund.de

Federal Institute for Drugs and Medical Devices

Kurt-Georg-Kiesinger-Allee 3
D-53175 Bonn, Germany
Tel. +49 228 99 307 0
Fax +49 228 99 307 5207
www.bfarm.de

Ireland**Health Products Regulatory Authority**

Kevin O'Malley House
Earlsfort Centre,
Earlsfort Terrace
Dublin 2, Ireland
Tel. +353 1 676 4971
www.hpra.ie

Italy**Ministry of Health**

Ministero della Salute
Lungotevere Ripa, 1
00153 Rome, Italy
Tel. +39 06 59941
www.salute.gov.it

The Netherlands Medicines**Evaluation Board**

P.O. Box 8275
3503 RG Utrecht
The Netherlands
Tel. +31 88 224 8000
Fax +31 88 224 8001
www.cbg-meb.nl

Health Care Inspectorate

Postbus 2518
6401 DA Heerlen
The Netherlands
Tel. +31 88 120 50 00
www.igz.nl

Spain**Spanish Medicines and Medical Devices Agency**

C/ Campezo Nº 1
Edificio 8
28022 Madrid
Tel. +34 902 101 322
www.aemps.gob.es

Ministry of Health, Social Services and Equality

Paseo del Prado, 18-20
Planta baja
esquina con Lope de Vega
28014 Madrid, Spain
Tel. +34 901 400 100
www.msssi.gob.es

Sweden**Medical Products Agency**

PO Box 26
SE-751 03 Uppsala
Sweden
Tel. +46 18 17 46 00
Fax. +46 18 54 85 66
www.lakemedelsverket.se

Switzerland**Swiss Agency for Therapeutic Products**

Hallerstrasse 7
PO Box CH-3000
Bern 9, Switzerland
Tel. +41 58 462 02 23
Fax +41 58 462 02 12
www.swissmedic.ch

United Kingdom**Medicines and Healthcare Products Regulatory Agency**

151 Buckingham Palace Rd.
Victoria
London, SW1W 9SZ
United Kingdom
Tel. +44 20 3080 6000
Fax +44 203 118 9803
www.mhra.gov.uk

MIDDLE EAST & AFRICA**Egypt****Ministry of Health and Population**

www.mohp.gov.eg

Ghana**Ministry of Health**

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Uganda**Ministry of Health**

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United Arab Emirates**Ministry of Health**

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Pharmaceutical Inspection Convention/ Pharmaceutical Inspection Cooperation Scheme

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World Health Organization (WHO)

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www.who.int

Key FDA, EMA, and ICH Manufacturing Related Guidances and Guidelines

(Issued June 2016–May 2017, starting with the most recent)

FDA Final Guidances

Providing Regulatory Submissions in Electronic Format—Certain Human Pharmaceutical Product Applications and Related Submissions Using the eCTD Specifications
April 2017

Interim Policy on Compounding Using Bulk Drug Substances Under Section 503A of the Federal Food, Drug, and Cosmetic Act
January 2017

Interim Policy on Compounding Using Bulk Drug Substances Under Section 503B of the Federal Food, Drug, and Cosmetic Act
January 2017

Repackaging of Certain Human Drug Products by Pharmacies and Outsourcing Facilities
January 2017

Nonproprietary Naming of Biological Products
January 2017

Botanical Drug Development: Guidance for Industry
December 2016

ANDA Submissions—Refuse-to-Receive Standards Rev. 2
December 2016

Drug Supply Chain Security Act Implementation: Identification of Suspect Product and Notification
Guidance for Industry
December 2016

Clinical Pharmacology Labeling for Human Prescription Drug and Biological Products—Content and Format
December 2016

Providing Postmarket Periodic Safety Reports in the ICH E2C(R2) Format (Periodic Benefit-Risk Evaluation Report)
November 2016

Contract Manufacturing Arrangements for Drugs: Quality Agreements
November 2016

Safety Testing of Drug Metabolites
November 2016

Generic Drug User Fee Amendments of 2012: Questions and Answers Related to User Fee Assessments
November 2016

ANDA Submissions—Prior Approval Supplements Under GDUFA
October 2016

ICH Q7 Good Manufacturing Practice Guidance for Active Pharmaceutical Ingredients
Guidance for Industry
September 2016

Self-Identification of Generic Drug Facilities, Sites, and Organizations
September 2016

FDA's Application of Statutory Factors in Determining When a REMS Is Necessary
September 2016

ANDA Submissions—Refuse to Receive for Lack of Justification of Impurity Limits
August 2016

Pharmacy Compounding of Human Drug Products Under Section 503A of the Federal Food, Drug, and Cosmetic Act
June 2016

Charging for Investigational Drugs Under an IND—Qs & As
June 2016

FDA Draft Guidances

ICH Q11 Development and Manufacture of Drug Substances—Questions and Answers (regarding the selection and justification of starting materials).
February 2017

Medical Product Communications That Are Consistent With the FDA-Required Labeling—Questions and Answers
January 2017

Considerations in Demonstrating Interchangeability With a Reference Product
January 2017

Comparative Analyses and Related Comparative Use Human Factors Studies for a Drug-Device Combination Product Submitted in an ANDA
January 2017

Referencing Approved Drug Products in ANDA Submissions
January 2017

Mixing, Diluting, or Repackaging Biological Products Outside the Scope of an Approved Biologics License Application
January 2017

Guidance for Industry 180-Day Exclusivity: Questions and Answers
January 2017

Annual Reporting by Prescription Drug Wholesale Distributors and Third-Party Logistics Providers: Questions and Answers
January 2017

Providing Regulatory Submissions in Electronic Format—Submission of Manufacturing Establishment Information Guidance for Industry
December 2016

Submission of Quality Metrics Data, Guidance for Industry
November 2016

ICH S9 Nonclinical Evaluation for Anticancer Pharmaceuticals—Questions and Answers
September 2016

S3A Guidance: Note for Guidance on Toxicokinetics: The Assessment of Systemic
September 2016

Regulatory Classification of Pharmaceutical Co-Crystals
August 2016

Updating ANDA Labeling After the Marketing Application for the Reference Listed Drug Has Been Withdrawn
July 2016

Elemental Impurities in Drug Products
June 2016

Request for Quality Metrics. Technical Specifications Document: “Quality Metrics Technical Conformance Guide, Version 1.0”
June 2016

Quality Attribute Considerations for Chewable Tablets
June 2016

Pending Guidances

View a list of FDA guidances under development at www.fda.gov/RegulatoryInformation/Guidances.

EMA Draft Papers, Guidelines, and Procedures

Concept Paper on the Revision of the Guideline on the Role of Pharmacokinetics in the Development of Medicinal Products in the Paediatric Population
May 2017

Concept Paper on a Revision of the Guideline on the Investigation of Drug Interactions
April 2017

Concept Paper on Revision of the Guideline on the Pharmaceutical Quality of Inhalation and Nasal Products
March 2017

Concept Paper on Good Manufacturing Practice and Marketing Authorisation Holders
October 2016

Draft Questions and Answers on Production of Water for Injections by Non-Distillation Methods—Reverse Osmosis and Biofilms and Control Strategies
August 2016

EMA Adopted or Updated Papers, Guidelines, and Procedures

Guideline on Good Pharmacovigilance Practices (GVP): Module VII—Periodic Safety Update Report—Explanatory Note
April 2017

Guideline on Influenza Vaccines—Submission and Procedural Requirements (Rev.1)
March 2017

Scientific Guidance on Post-Authorisation Efficacy Studies—First Version
December 2016

Guideline on Good Pharmacovigilance Practices (GVP): Product- or Population-Specific Considerations II: Biological Medicinal Products
August 2016

Guideline on Development, Production, Characterisation and Specification for Monoclonal Antibodies and Related Products—Revision 1
August 2016

Guideline on Potency Testing of Cell Based Immunotherapy Medicinal Products for the Treatment of Cancer—Revision 1
August 2016

ICH Guidelines

Q11 Questions & Answers: Selection and Justification of Starting Materials for the Manufacture of Drug Substances
November 2016

SOURCE FOR INFORMATION HEREIN: FDA WEBSITE (WWW.FDA.GOV), EMA WEBSITE (WWW.EMA.EUROPA.EU), AND ICH WEBSITE (WWW.ICH.ORG), AS OF MAY 2017.



(July 2017–June 2018)

UPCOMING EVENTS

Upcoming Events

(July 2017–June 2018*)

July 2017

Antibody & Protein Therapeutics

Date: July 11–12

Location: Baltimore, MD

More Info: www.gtcbio.com

Annual Meeting & Exposition of the Controlled Release Society

Date: July 16–19

Location: Boston, MA

More Info: www.controlledreleasesociety.org

31st Annual Symposium of the Protein Society

Date: July 24–27

Location: Montreal, Canada

More Info: www.proteinsociety.org/page/annual-symposium

AI Pharma Innovation Summit 2017

Date: July 25–27

Location: Boston, MA

More Info: ai-pharma.com

August 2017

CBI's 12th Annual Forum on Manufacturing Execution Systems (MES)

Date: Aug. 15–16

Location: Orlando, FL

More Info: www.cbinet.com/conference/pc14144

The Bioprocessing Summit

Date: Aug. 21–25

Location: Boston, MA

More Info: www.bioprocessing-summit.com

IVT's 3rd Annual Data Integrity Validation Conference

Date: Aug. 16–17

Location: San Diego, CA

More Info: www.cbinet.com/conference/pi16123

Paperless Validation & Documentation Management

Date: Aug. 16–17

Location: San Diego, CA

More Info: www.cbinet.com/conference/pi17061

American Chemical Society National Meeting & Exposition

Date: Aug. 20–24

Location: Washington, DC

More Info: www.acs.org

CHI's Annual High-Concentration Protein Formulations

Date: Aug. 21–25

Location: Boston, MA

More Info: www.bioprocessingsummit.com/Protein-Formulations

CPhI Korea

Date: Aug. 22–24

Location: Seoul, Korea

More Info: www.cphi.com/korea

September 2017

2017 PDA/FDA Joint Regulatory Conference

Date: Sept. 11–13

Location: Washington, DC

More Info: www.pda.org

15th Cold Chain GDP & Temperature Management Logistics Global Forum

Date: Sept. 25–29

Location: Chicago, IL
More Info: www.coldchain-globalforum.com

Hub and SPP Model Optimization

Date: Sept. 26–27
Location: Philadelphia, PA
More Info: www.cbinet.com/conference/pc17218

15th Annual Pharmaceutical IT Congress

Date: Sept. 27–28
Location: London, UK
More Info: www.pharmatechnology-summit.com

October 2017

World Vaccine Congress Europe 2017

Date: Oct. 10–12
Location: Barcelona, Spain
More Info: www.terrapinn.com/conference/world-vaccine-congress-europe

NORD's Rare Diseases and Orphan Products Breakthrough Summit

Date: Oct. 16–17
Location: Washington, DC
More Info: rarediseases.org/summit-overview/

23rd Annual Validation Week

Date: Oct. 17–19
Location: Philadelphia, PA
More Info: www.cbinet.com/conference/pi15083

PDA Visual Inspection Forum

Date: Oct. 23–24
Location: Bethesda, MD
More Info: www.pda.org

CPhI Worldwide

Date: Oct. 24–26
Location: Frankfurt, Germany
More Info: www.cphi.com

ISPE Annual Meeting & Expo

Date: Oct. 29–Nov. 1
Location: San Diego, CA
More Info: www.ispe.org/2017-annual-meeting

November 2017

BIO-Europe 2017

Date: Nov. 6–8
Location: Berlin, Germany
More Info: www.ebdgroup.com/bioeurope

2017 AAPS Annual Meeting and Exposition

Date: Nov. 12–15
Location: San Diego, CA
More Info: www.aaps.org/annualmeeting

8th Annual West Coast Compliance Congress

Date: Nov. 14–15
Location: San Francisco, CA
More Info: www.cbinet.com/conference/pc17151

CPhI India

Date: Nov. 27–30
Location: Mumbai, India
More Info: www.cphi-india.com

December 2017

13th Life Sciences Trade and Channel Strategies

Date: Dec. 12–13
Location: Philadelphia, PA
More Info: www.cbinet.com/conference/pc16183

January 2018

Biotech Showcase 2018

Date: Jan. 8–10
Location: San Francisco, CA
More Info: www.ebdgroup.com/bts

February 2018

Pittcon 2018

Date: Feb. 26–March 1
Location: Orlando, FL
More Info: www.pittcon.org

March 2018

2018 PDA Annual Meeting

Date: March 19–21
Location: Orlando, FL
More Info: www.pda.org

DCAT Week 2018

Date: March 19–22
Location: New York, NY
More Info: www.dcat.org

CPhI South East Asia

Date: March 27–29
Location: Jakarta, Indonesia
More Info: www.cphi.com/sea/

April 2018

World Vaccine Congress

Date: April 3–5
Location: Washington, DC
More Info: www.terrapinn.com/conference/world-vaccine-congress-washington/index.stm

INTERPHEX 2018

Date: April 17–19
Location: New York, NY
More Info: www.interphex.com

Annual DIA EuroMeeting

Date: April 17–19
Location: Basel, Switzerland
More Info: www.diaglobal.org/en/flagship/euromeeting

CPhI Japan

Date: April 18–20
Location: Tokyo, Japan
More Info: www.cphi.com/japan/

CPhI North America

Date: April 24–26
Location: Philadelphia, PA
More Info: www.cphi.com/NorthAmerica

InformEx 2018

Date: April 24–26
Location: Philadelphia, PA
More Info: www.informex.com

May 2018

2nd International Conference and Exhibition on Nanomedicine and Drug Delivery

Date: May 14–16, 2018
Location: Tokyo, Japan
More Info: nanomedicine.pharmaceuticalconferences.com/

June 2018

BIO International Convention 2018

Date: June 4–7
Location: Boston, MA
More Info: convention.bio.org

*Information current as of June 1, 2017.

For more events throughout the year, visit PharmTech.com/events.



How to Select Pharmaceutical Dust Collectors

David Steil

A new ASHRAE Standard 199 allows comparison of performance based on operating conditions.

The pharmaceutical industry now has a way to accurately evaluate and compare dust collection systems that are self-cleaning (i.e., use compressed air to discharge the dust cake from the filter without taking the air filter offline). The new American National Standards Institute (ANSI)/American Society of Heating, Refrigerating and Air-Conditioning Engineers (ASHRAE) Standard 199-2016, “Method of Testing the Performance of Industrial Pulse Cleaned Dust Collectors,” (1) provides manufacturers with a methodology for comparing performance results based on true operating conditions.

The test process analyzes how dust collectors perform as a whole and how well the filters clean, providing real-world data to help processors make purchasing decisions. The methodology also provides comparative data on operational and energy costs and emissions, which will help guide pharmaceutical companies in making long-term decisions such as the necessity of secondary high-efficiency particulate air (HEPA) filtration, how to extend filter life, and achieving cost savings using different primary filters.

ASHRAE Standard 199 measures the following results:

- Emissions: The tests used in Standard 199 measure initial emissions and emissions over the duration of testing, measured in milligrams per cubic meter of air.
- Pressure drop: The better a dust filter can release dust and the more it can hold will reduce cleaning

frequency, which helps the system maintain a low pressure drop throughout service life of the filter.

- Compressed air usage: How much air the system consumes varies according to how self-cleaning the filter is. The better the cleaning characteristics, the less compressed air the system needs.
- Energy consumption: A filter with a low pressure drop, used in conjunction with a variable-frequency drive as prescribed in Standard 199, extends the service life of the filter and reduces electricity usage.
- Emission reading: The standard tests for how much dust penetrates the system at specific particle masses and reaches the outlet.

How Standard 199 testing works

The intent of the testing is to challenge the dust collector in a way that mimics real-life use. The standard requires tests to use calcium carbonate dust and specifies particle size, bulk density, and moisture content.

Stage 1: Dust is fed to the collector at a specified rate, without pulse cleaning, until a specified differential pressure is reached.

Stage 2: On-demand pulse cleaning, the most common cleaning method used in the pharmaceutical industry, begins while the airflow and dust feed continue. The cleaning interval is determined by high and low differential pressure set points provided by the manufacturer of the dust collector.

Stage 3: Continuous pulse cleaning of filters is performed at specified intervals, while maintaining the airflow and dust feed, for 24 hours or until the specified maximum differential pressure is reached.

Stage 4: Final dust loading with on-demand cleaning is tested by maintaining the airflow and dust feed. Similarly to Stage 2, the frequency of cleaning is triggered by high and low differential pressure setpoints and will vary depending on the performance (i.e., pressure buildup) of the system.

Stage 5: The dust feed is maintained while suspending pulse cleaning to mimic how the dust collector would perform in an upset condition.

Stage 6: A process commonly known as “downtime cleaning” is replicated to simulate a post-upset scenario.

Benefits

The information gleaned from testing will help companies make more informed purchasing decisions and will allow accurate system comparisons. As more dust collector manufacturers and suppliers adopt the standard, the pharmaceutical industry will benefit from real-world data that demonstrates the need for things such as secondary HEPA filtration and specific filters that reduce cost and perform better in their specific application.

Because complying with Standard 199 is voluntary, however, it may take some time for individual dust collector and filter manufacturers to develop their own compliance plan. Potential involvement of the International Organization for Standardization, which is currently looking at adopting the standard, will impact equipment suppliers and customers worldwide.

Reference

1. ANSI/ASHRAE Standard 199-2016, “Method of Testing the Performance of Industrial Pulse Cleaned Dust Collectors” (2016). **PT**

David Steil is pharmaceutical market manager at Camfil Air Pollution Control, www.camfilapc.com.



Preventative Maintenance of Single-Use Tubing

Jennifer Markarian

Extend the life of single-use tubing for peristaltic pumps using preventative maintenance.

Peristaltic pumps move fluid through a flexible, polymer tube by compressing and decompressing the tube. An advantage of these pumps for sterile biopharmaceutical processes is that the fluid only contacts the tube and connectors, not the pump itself. Disposable or single-use tubing can be used for the length of a biopharmaceutical product campaign and changed when a new product is to be manufactured.

To prevent failure during lengthy use, tube life should be monitored and a preventive maintenance program enacted. *Pharmaceutical Technology* spoke with Gregg E. Johnson, global senior product manager for the Cole-Parmer peristaltic pump product lines, about these concerns.

Tubing lifespan

PharmTech: How long does single-use tubing typically last?

Johnson (Cole-Parmer): The lifespan for tubing is dependent upon pumping conditions— speed, pressure, fluid, and fluid temperature. Some new biopharm formulations of silicone tubing can last 200 to more than 1000 hours. For the Pharmed materials (made from a thermoplastic elastomer), life expectancy can be several thousands of hours.

PharmTech: How does a company go about monitoring the tube life?

Johnson (Cole-Parmer): In our testing lab, we monitor the tube life by recording the hours between failure. Once we have a pattern, we can set up preventative maintenance based on the specific

installation. Each one is different due to different fluid, piping systems, and other devices in the fluid path.

“Once we have a pattern, we can set up preventative maintenance based on the specific installation.”

*—Johnson,
Cole Parmer*

Maintenance

PharmTech: What are some rules of thumb for performing preventative maintenance?

Johnson (Cole-Parmer): Preventative maintenance (PM) and the frequency at which it is performed is determined by the pump operator. A simple recommendation is to review the tube-life data provided by the pump manufacturer. A good place to start may be at 75 to 80% of the manufacturer’s data until a reliable pattern is defined. Each installation is different. Once this pattern is established, and longer PM cycles are desired, the operator can elect to extend the cycles to fit their needs.

PharmTech: How can tube life be extended by moving the tubing to a new position?

Johnson (Cole-Parmer): If an operator is performing a long-term campaign

and concerned about tube life, he can extend the run and prevent the possibility of tubing failure by moving the tubing to a new position. This is accomplished by setting the system up with excess tubing on the discharge (outlet) of the pump. Once the campaign is running, the operator can, on a periodic basis—once a week or once a month—pause the pump rotation, open the pump head, and slide a section of unused tubing (from the excess at the start of the campaign) and move the used section from the pump head to the suction (inlet) side. The pump is then closed and restarted. This type of procedure is easily performed with an easy-loading style pump like the Masterflex Easy Load pump head. **PT**

Find more articles on fluid handling and single-use components on PharmTech.com

- **Pumping Fluids in Biopharmaceutical Processing**
www.PharmTech.com/pumping-fluids-biopharmaceutical-processing
- **Enabling Fluid Transfer for Cell Therapies: An Industry Challenge**
www.PharmTech.com/enabling-fluid-transfer-cell-therapies-industry-challenge
- **Integrating Single-Use Systems in Pharma Manufacturing**
www.PharmTech.com/integrating-single-use-systems-pharma-manufacturing
- **Maintaining Hygienic Diaphragm Valves**
www.PharmTech.com/maintaining-hygienic-diaphragm-valves



Overcoming Challenges in Asset Management

Tony Parziale, Dale Butler, and Peter Harris

Tips for buyers and sellers of second-user equipment.

The role of proactive asset management within the pharmaceutical industry has changed over the years, with the principle of redeploying production equipment and lab instrumentation from one facility to another as projects complete, priorities change, or companies merge now well established. As the drive for lean operation continues, companies are increasingly turning to resource recovery—the sale of redundant equipment—to liquidate their assets, and are also capitalizing on the opportunity to save money by purchasing second-user equipment. Consequently, the surplus equipment industry has witnessed considerable growth and has evolved to meet the needs of the growing number of businesses facing the numerous challenges associated with relocating, buying, and selling equipment on a global scale. International trade agreements and packaging standards combined with local interpretations and logistical practices are just some of the elements that can make life challenging for both buyers and sellers.

Surplus-asset policies

When developing policy, a company needs to consider its liability risk. The industry standard is to sell surplus assets “as is/where is,” with no warranties expressed or implied. In practice, vendors need to have a watertight section in their terms and conditions of sale documentation that covers

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this risk. In addition, a business must initiate auditable reporting and processes for every aspect of a transaction involving the sale and purchase of surplus assets. It is also important to consider practices and records surrounding decontamination of equipment. While all firms will have decontamination processes in place as part of their asset decommissioning program, many buyers will request proof of decontamination and further ask for detailed information on the specific products that have been run on the equipment. The seller will need to decide to what extent they are willing to provide product information. This information is a particular concern with equipment that has run antibiotics or beta lactam products. Complete decontamination of equipment running these products is so costly that, in most cases, it is only viable for it to be sold to a new owner who is running the same type of product. In all cases, the terms and conditions of sale must be written to protect the vendor.

A final point to note for companies in Europe is the impact of CE marking. It is important for both vendor and purchaser to know whether a surplus analyzer is CE marked or not. If not, the market for the piece of equipment in Europe will be smaller and the demand is likely to be significantly lower due to the time and costs that would be required to certify the product for use.

Logistics

Trade restrictions and embargoes are specific to the individual origin and destination countries for any given shipment. The primary party of interest for sales transactions is responsible for confirming that a shipment is in compliance with all relevant regulations.

Many countries have strict import regulations that are driven by commercial sensitivities. These countries often impose high duties and tariffs on imported goods and, in some cases, will not allow the importation of an item at all if it is readily available in the country from a local manufacturer. For example, when a buyer of equipment from an auction in the US is located in one of these countries, the seller needs not only to be aware of the restrictions, but also to make the buyer aware of them too. They must then work with them and their customs broker to make sure there will not be any issues with completing the sale.

Unfortunately, transporting a piece of equipment from one location to another is not as easy as simply packaging it up and shipping it off to its new home. There are many pitfalls that can arise through ignorance of best practice, even when a pharmaceutical business is transferring the kit to one of its own facilities. All international logistics involves managing multiple methods of transport and can involve different time zones, language barriers, and coordination of remote suppliers. When it comes to transferring specialist equipment, there is an added layer of complexity to be dealt with. For example, a flammable pressurized cylinder in a package would have to conform to International Air Transport Association regulations and be certified by a Dangerous Air Cargo assessor.

An often overlooked detail of logistical practice is the packaging itself. The International Standards for Phytosanitary Measures, Number 15 (ISPM 15) governs all wood materials used in packing for export. This means that every packing case should be documented and checked for certification prior to leaving the warehouse. **PT**



Optimizing HVAC Systems to Improve Energy Efficiency

Ben Erpelding

Real-time, continuous optimization of holistic systems improves energy efficiency and performance.

Heating, ventilation, and air conditioning (HVAC) systems—the chilled water plant, steam and hot water plant, and air distribution—consume 65% of the energy used in pharmaceutical manufacturing facilities, according to research by Lawrence Berkeley National Laboratory (1). Chilled water systems also consume substantial amounts of water. Optimizing these systems can contribute significantly to carbon dioxide (CO₂) reduction and other corporate sustainability goals, as well as reduce manufacturing costs.

Although optimizing HVAC systems is an opportunity to improve efficiency, typical concerns include the possibility that implementation will result in loss of product, the need to meet quality assurance (QA) standards, and site finance requirements. It is possible to overcome all these hurdles, however, with effective project management and an engineered software solution that addresses HVAC in a holistic manner to get maximum benefits.

Optimization guidelines

A typical pharmaceutical facility tends to have strict requirements for 100% reliability; however, even new, state-of-the-art HVAC systems can lose operational efficiency. Compromising on product quality is not an option, so system operators take charge, overriding set points and placing HVAC systems in manual control to maintain system resiliency. As a result, efficiency suffers.

The goal of optimization is to make mechanical systems work at peak ef-

fectiveness, all the time. Pharma facility directors can optimize even the most demanding environments, with new or existing equipment, by employing a combination of engineering expertise, relational control software, and an ongoing technical support platform that keeps systems at commissioned levels.

The most successful optimization projects follow these three guidelines:

- What cannot be measured cannot be optimized. Without an accurate measure of energy use by each piece of equipment in the system, it is impossible to accurately predict and report the impact of varying conditions on the system.
- Optimize systems, not just individual components. If an optimization plan focuses only on installing the most efficient pieces of equipment without considering how to maximize performance of the whole system, it won't capture the total available system efficiency. Holistic automatic optimization of HVAC systems typically increases energy efficiency by an additional 10 to 25% over just installing new equipment.
- Optimization must be automatic, dynamic, and continuous for maximum efficiency. Optimization should be a real-time dynamic process, not a static set-and-forget process. If a plant's operational control is not based on real-time inputs, it cannot be fully optimized.

The basic optimization process starts with calculating the current performance of the HVAC system to determine the potential energy savings. A detailed engineering analysis can show an hour-

by-hour simulation of the system baseline performance against weather data and load profiles for a full year. Next, a scope-of-work document details the electrical, mechanical, and control upgrades required for a holistic optimization program. With that in hand, the engineering team can create a second model that simulates the system's performance after the modifications are implemented and defines the delta between baseline and post-implementation performance to determine the energy and cost savings for the optimization project.

Finally, a lifecycle cost analysis should take into account the full implementation costs (mechanical, electrical, controls, optimization, project management, qualification, sales taxes, affiliate staff fees, information technology costs, permits, commissioning, engineering, contingency, and so on), the cost of money, depreciation, utility incentives, corporate taxes, and maintenance to calculate the project's internal rate of return (IRR) and net present value. Site stakeholders can then use these data to present the business case for the project.

Reference

1. C. Galitsky, et al., Ernest Orlando Lawrence Berkeley National Laboratory, "Energy Efficiency Improvement and Cost Saving Opportunities for Pharmaceutical Industry" (2008), www.energystar.gov/ia/business/industry/in_focus/Pharmaceutical_Energy_Guide.pdf, accessed Sept. 1, 2016.

To read about energy conservation measures and a case study, see www.PharmTech.com/optimizing-hvac-systems-improve-energy-efficiency. **PT**

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Restoring Overall Equipment Efficiency

Evren Ozkaya

Data mining can counter the loss in efficiency caused by mandated serialization compliance.

With the November 2017 deadline for the Drug Supply Chain Security Act (DSCSA) looming, US pharmaceutical manufacturers, contract manufacturing organizations, and contract packaging organizations are getting their serialization solutions ready and validated. Few, however, are as concerned with what happens next. While widespread track-and-trace adoption will help mitigate many longstanding problems—counterfeiting, supply chain security, pinpointing recalls—it will create issues well beyond the immediate hassles of infrastructure investment, implementation, and validation. Most prominent is loss in production line efficiency. As manufacturers continue to outfit and upgrade packaging machinery to comply with regulations, the extra steps in serialization (and aggregation) will bring an unwelcome 5–10% reduction in overall equipment effectiveness (OEE), as experienced by early adopter countries such as Turkey. Some companies have seen decreases of 20–30%.

The good news is that with serialization incorporation, any process causing an initial slowdown can produce data that, when properly interpreted, can reveal a roadmap to restoring OEE to pre-track and trace levels, or even higher. Data generated by serialization compliance can be parlayed into guideposts for improving production practices. The metrics are there for the

mining, allowing manufacturers to track and trace their operations along with their pharmaceutical products with exceptional granularity.

Serialization implementation and the data mining it affords are the first vital steps toward transforming pharma production facilities into digital factories whose foundations are built on web-enabled and data-driven technologies. Its advantages touch every aspect of manufacturing, including enterprise-wide resource allocation, asset tagging, and real-time inventory and personnel tracking.

Digital factory transformation

Tomorrow's digital factories can use a three-tiered digital transformation process to successfully deliver the promise of smart manufacturing, or Industry 4.0. The race is on for manufacturers to optimize production practices by navigating from data to dashboards to decisions. In doing so, they will apply mined information toward comprehensive yet digestible operational feedback that, in turn, leads to logical adjustments for improved production practices. The three “D”s of this process are described as follows.

Data. Unique unit-level serial numbers for enhanced supply-chain product visibility are only the beginning. Emerging Internet of Things technologies, such as wireless sensors and gateways, offer opportunities to enhance datasets collected by traditional “transaction-based” systems such as enterprise-resource planning, manufacturing execution systems, and warehouse management systems. Additional environmental and location-

based data can tremendously enrich previously untapped metrics with unprecedented granularity.

Dashboard. Dashboards convert raw data into actionable insights through business and management platforms, made available to personnel throughout an organization depending on their specific roles. For example, managers could access live dashboards showing all production lines, and view preconfigured reports showcasing exceptions, trends, and downtimes in detail. Undesirable situations can be addressed faster and more effectively. Conversely, optimum outcomes are identified so that ideal conditions can be replicated.

Decisions. Data and dashboards are used for critical resourcing and prioritization decisions. For example, scheduling work orders on shop floors using real-time data and historical trends can significantly improve resource utilization and overtime/waste reduction, while increasing capacity and throughput.

Scheduling and beyond

Replacing manual or paper-based tracking with a digital tracking system improves operational visibility and allows identification of procedure-driven activities that show significant variability in duration so that managers can identify areas for improvement. Such systems can also help allocate personnel more efficiently, in real time. More fundamental performance improvement can use digital tracking of shop floor activities to create a more robust scheduling process. Digital tracking can thus improve management of operations. **PT**

Evren Ozkaya, PhD, is founder and CEO of Supply Chain Wizard, LLC, www.supplychainwizard.com.

Charles R. Frey
Vice-President of Scientific Affairs
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IT TAKES A “BIT OF PLUCK”

Ulysses by James Joyce is considered the best novel ever by some. I never completed the read, but recall his nearly 100-year-old thoughts on pharma:

“The chemist turned back page after page. Sandy shrivelled smell he seems to have. Shrunken skull. And old. Quest for the philosopher’s stone. The alchemists. Drugs age you after mental excitement. Lethargy then. Why? Reaction. A lifetime in a night. Gradually changes your character. Living all day among herbs, ointments, disinfectants. All his alabaster lily pots. Mortar and pestle. Ag. Dist. Fol. Laur. Te Virid. Smell almost cure you like the dentist’s doorbell...The first fellow that picked a herb to cure himself had a bit of pluck. Simples. Want to be careful. Enough stuff here to chloroform you. Test: turns blue litmus paper red. Chloroform. Overdose of laudanum. Sleeping draughts. Lovephiltres. Paragoric poppysyrup bad for cough. Clogs the pores or the phlegm. Poisons the only cures. Remedy where you least expect it. Clever of nature” (1).

This sobering passage strikes at our core—delivering poisons at therapeutic levels. It takes “a bit of pluck” to work in this industry, but health, well-being, economics, and scientific advances outweigh potential consequences. The need for quality is obvious; a “first do no harm” mantra is critical. Before the 1990’s quality movements, quality drove selection of products and services—economics took a back seat. As competition brought product quality to a perceived common playing field, price became the critical factor. Nevertheless, technical knowhow and expertise remain discriminating quality factors. Historical knowledge, experiential history, and independent positioning provide an edge.

Wurster fluid bed coating remains the core of Coating Place, Inc. Dr. Wurster’s University of Wisconsin patent work and equipment became Coating Place, Inc. in December 1976. An initial focus was coating applications/equipment support. Relationships were simple with material movement in and out of Coating Place for development or commercial coating needs. This grew into a contract manufacturing focus with added services such as capsule filling, tableting, ball milling, high shear granulation, extrusion/spheronization, roll compaction, and analytical support to comprehensively address needs. Wurster equipment is built to original designs with improvements and features such as linear scalability. Work in diverse industries and novel applications have provided the largest background knowledge base on Wurster coating technology available today.

Wurster technology has been around awhile, but is not “shrivelled” or “shrunken” and it takes time to master formulating and processing intricacies. “A bit of pluck” is needed to be involved in pharmaceuticals, but less so with experienced, knowledgeable partnerships.

REFERENCE

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ABOUT CHARLES R. FREY

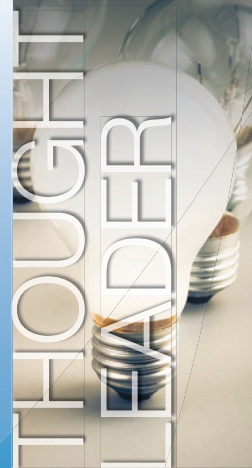
Charles Frey joined Coating Place in 1999. He has contributed several book chapters on the Wurster fluid bed coating process.

ABOUT COATING PLACE, INC.

Coating Place is a pharmaceutical contract manufacturer specializing in Wurster fluid bed coating and other vertically integrated processes.



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INNOVATION OUTLOOK

Christopher Dillon, BA, CPIA, LATG
Executive Director, Compliance & IACUC Chair
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HOW ATTUNED IS YOUR CRO TO THE DEVELOPING EXPECTATIONS OF TOMORROW?

There are a number of external agencies and internal committees that regulate the services provided by contract research organizations (CROs). Staying ahead of the ever-developing and frequently changing expectations of regulations is crucial to the companies who are working to successfully develop drugs and devices to improve global medicine. Inevitably, expectations and interpretations around established regulations and best practices evolve more quickly than the actual language of the regulations. Therefore, a CRO is forced to remain nimble and cognizant of any shifts in the interpretation or applicability of the regulations. MPI Research actively reviews public records for all regulatory findings and participates directly in regulatory and industry conferences in order to maintain a progressive and compliant program focused on never-ending improvement.

Equally, as the application or interpretation of regulations changes over time, so does the nature of the research being conducted. As these frontiers of research continue to shift, it is imperative that CROs stay abreast of these changes in order to conduct the studies and accurately report the data which will be submitted to regulating bodies to advance tomorrow's medicine. The shift from small molecule development to utilizing biologics, cell therapies, stem cells, and viral vectors requires special expertise, training, equipment, and facilities. Often, these projects require a moderately hazardous or hazardous Biosafety classification (BSL), which demands the use of more advanced and controlled protocols in terms of environmental controls, security, handling, and personal protective equipment, and technical execution, among other factors. With the rise of BSL-2 studies, capacity to maintain these highly regulated requirements is an ongoing challenge for many CROs.

Over the past several years, we've expanded our dedicated BSL-2 areas; which allows for additional capacity to handle specialty development programs. MPI Research works to anticipate the future needs of the industry and our partners. Our on-site IACUC, IBC, Study Directors, Scientists, commercial development, and quality and compliance teams are working together to ensure that all the regulations are met while still successfully fulfilling our Sponsors timelines and scientific expectations.

We all understand that compliance, data accuracy, and delivery could make or break programs. When outsourcing preclinical research, developers need to consider how aligned their potential CRO partners are with the forward motion of the industry and the developing expectations of regulatory and accrediting bodies. This can be especially important when dealing with biopharmaceuticals or hazardous biosafety level research programs. Failure to do so could derail a developer's research and business objectives unnecessarily delaying the improvement of global medicine.

ABOUT CHRISTOPHER DILLON

Christopher serves as executive director of Compliance and IACUC Chair at MPI Research. He is responsible for the oversight of Regulatory Compliance, the animal care and use program, and the administration and management of the IACUC and the IBC.

ABOUT MPI RESEARCH

MPI Research is a full-service preclinical CRO that has partnered with Sponsors targeting areas of discovery, safety, medical device, bioanalytical, and analytical sciences for more than 20 years. When you want more from your CRO, look to MPI Research.



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Dale Natoli
President
Natoli Engineering Company



CONTINUOUS MANUFACTURING OFFERS OPPORTUNITY, CHALLENGES

Continuous manufacturing offers the pharmaceutical industry the opportunity to combine research and development investigations that have been addressing process variability in the multiple unit operations required to manufacture drug products into a single process that is much more amenable to process control and more capable of making quality medicines. The first principles understanding of the granulation and blending of API and excipients coupled with the ability to measure in real time via PAT the process responses that are critical to quality allows what was previously a long and involved process involving days and weeks to be streamlined into a process involving minutes and hours.

Significant advances in understanding the rheological and size properties of powders and the impact on solid oral-dosage forms that these properties impart to the quality of a drug product has helped advance the development of continuous manufacturing processes. For tablet compression, these powder properties are now being utilized to understand the behavior of formulations in tablet press rotary power feeders, the performance of the powder on the die table with respect to weight variability, and the impact of excessive powder recirculation due to an improperly set up tablet press.

Rotary power feeders are designed to simply provide powder to a location on the tablet press where the powder has the opportunity to fill the die whether through the action of gravity or the suction force of the lower punch pulling down inside the die. Some powders flow through the rotary feeder in a plug flow manner, while other formulations exhibit poor flow and tend to segregate due to the inherent properties of the powder. Natoli is investigating different force feeder paddle configurations to minimize powder recirculation in the feeder, which may cause particle size degradation and inconsistent presentation of the formulation to the dies resulting in tablet weight variability and perhaps content uniformity problems.

At the Natoli Institute for Industrial Pharmacy Research and Development at Long Island University, work is being done to understand quantitatively the impact of variations in powder properties on tablet properties. By addressing this and other problems associated with the performance of powders on rotary tablet presses, new knowledge will be revealed and from this new solutions offered to the industry.

We welcome your inquiry and/or visit to our facility at LIU. Please contact Charles N. Kettler PhD, Director of Natoli Scientific for more information.

ABOUT DALE NATOLI

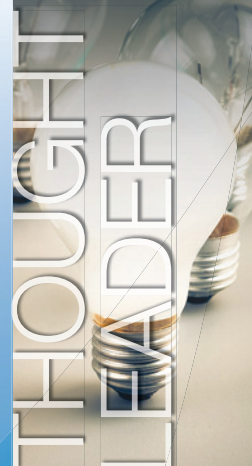
Author of chapters in three books, Mr. Natoli has 33 years of experience in the tableting industry. He presents lectures for universities, pharmaceutical associations, and tablet manufacturers worldwide.

ABOUT NATOLI ENGINEERING COMPANY

An industry leader for more than 40 years, Natoli Engineering Company is the worldwide source for superior tablet compression equipment and support services.



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INNOVATION OUTLOOK

Jeffrey Fleitman, PhD
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EMERGING CHALLENGES IN THE BIOPHARMACEUTICAL INDUSTRY

The largest growth in the pharmaceutical industry is projected to be biopharmaceuticals, which currently represent approximately 20% (1) of revenue. Revenue growth tops 8% annually which is almost double that of conventional Pharma (2).

The biopharmaceuticals market has the opportunity for huge growth, especially in areas where therapeutic treatment was previously unavailable. This has increased market demand and profit margin for entities that provide some degree of treatment.

Growth, however, is not unchallenged. Cumbersome regulatory requirements and manufacturing complexity combine to increase development costs and time to market.

Biopharmaceutical manufacturing facilities can cost hundreds of millions of dollars to build compared to tens of millions for small-molecule manufacturing facilities. Biopharmaceutical facilities are typically very expensive to run yet produce low yields that are dependent on expensive raw materials.

Each new biopharmaceutical entity will require customized manufacturing and quality assurance procedures. Typically, these requirements are quite different from small-molecule drug products, and manufacturers are challenged to gather the resources to develop these complex entities.

Contract-manufacturing organizations (CMOs) need to demonstrate technical expertise while meeting innovative requirements. The CMO is usually faster and more nimble than big pharma. In an industry where being first to market commands premium pricing and often patent exclusivity, these are important considerations. Additionally, a CMO may have experience working on a number of new chemical entities and the expertise gained from such exercises significantly reduces cost, time to clinic and resultant time to market.

CMOs such as PYRAMID Laboratories offer the technical, regulatory, and compliance expertise to development partners that may not have the internal technical expertise or manufacturing resources to bring promising biopharmaceutical candidates to clinical studies, regulatory filing, and approval. Partnering with PYRAMID Laboratories increases a client's chance of success in meeting unmet patient needs by successfully bringing these novel biotechnologies to market expeditiously while reducing development costs.

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2. Modor Intelligence, "Global Biopharmaceuticals Market Growth, Trends & Forecasts (2016 - 2021)" www.modorintelligence.com/industry-reports/global-biopharmaceuticals-market-industry, Sept., 2016.

ABOUT JEFFREY FLEITMAN, PHD

Jeff Fleitman is vice president of Operations at Pyramid Laboratories, Inc. He oversees manufacturing and development activities for aseptic lyophilized and solution dosage forms.

ABOUT PYRAMID LABORATORIES, INC.

PYRAMID provides contract aseptic manufacturing, lyophilization, and analytical services for sterile injectable drugs. PYRAMID's expertise is formulation, process development, and aseptic filling for vials and syringes.



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Marlon Lutz
Process Development Chemist and Flow Chemist
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CONTINUOUS FLOW CHEMISTRY, A REMARKABLE TOOL

To reduce time and cost during drug discovery and development campaigns, contract manufacturing organizations (CMOs) need to continue implementing safer processes and exercising the latest technological methods.

Today, chemists can use flow chemistry to execute processes that require high mixing and heat/mass transfer, control of processes operating in the thermal runaway regime, rapidly access novel pharmacophores and safely conduct hazardous chemistries that are difficult to handle in conventional batch reactors. With commercially available flow reactor systems, the chemist is able to rapidly screen/optimize reaction parameters and conveniently scale the preparation of many active compounds of interest, which is essential during library development and clinical trial campaigns.

CMOs often face challenges during a particular batch process where a specific step of a process is either low yielding, requires extended processing times, harsh conditions with much headspace, or involves extensive purification(s). CMOs don't have to fully invest in an entire flow reactor system accommodating the entire synthesis of API, but they can easily use flow chemistry around the particular "problem step." Even though flow reactor systems have a smaller footprint, the use of the modular flow reactor should ideally be used for multiple contract projects using homogeneous chemistries and validated cleaning methods.

Furthermore, the ability to automate commercial flow reactors has impacted how process development is performed and translated into manufacturing. Continuous flow chemistry has proven to be a remarkable tool for the synthetic chemist and has enabled sustainable processes to be operated more efficiently, safer, and cleaner. In combination with flow chemistry, process analytical technologies (PATs) have facilitated flow chemistry processes to be executed and monitored in "real-time" with higher confidence, reproducibility, and high purity and yield products generation. Employing PATs with flow reactor systems extensively reduces development times with elimination of the bottleneck of offline analyses.

Over the past five years, Regis, a GMP-certified CMO, has invested in the future of flow chemistry. This year, Regis chemists acquired experience in assessing and developing continuous flow process to produce organonitrate intermediates for preparation of active pharmaceutical compounds includes safe production of highly energetic acetyl nitrate that was analytically monitored in "real-time." With flow chemistry, Regis has also safely used high pressurized gas-liquid reactions to handle gaseous forms of oxygen, hydrogen, fluorine, ozone, ethylene, diazene, diazomethane, carbon monoxide/dioxide, and ammonia. To deliver expertise addressing process and quality control, Regis will continue to expand its flow chemistry abilities for the benefit of its clients.

ABOUT MARLON LUTZ

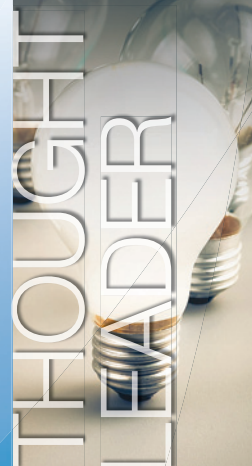
Marlon Lutz (M.S.) has over 10 years of industrial experience in the area of process research and development including five years using continuous flow chemistry.

ABOUT REGIS CUSTOM PHARMA

Regis Custom Pharma is a Chicago-based CMO focused on small-molecule APIs that partners with pharmaceutical companies to expedite drugs to the clinic and market.



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INNOVATION OUTLOOK

Mike Osgar
Vice President, Engineering
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REDUCING RISK IN SUS IMPLEMENTATION

The adoption of single-use systems (SUS) in biopharma processing is now widespread and continues to grow: SUS offer improved flexibility, reduced risk of contamination, and lower costs. But with any significant new technology, particularly in a highly regulated industry, standards are required in order for successful adoption to occur. In the past few months, new guidelines on extractables testing, particulate measurement/control, and quality agreements have been published by industry working groups BPSA and BPOG, which will greatly benefit SUS suppliers and users alike. The drive for standardization of SUS by these industry working groups is similar to the SEMI standard initiatives in the 1970s, a subset of which established standardized testing and allowable limits of trace metals of process chemicals used by the semiconductor industry. In that case, process chemicals suppliers, testing instrumentation (ICP-MS) suppliers and users (semiconductor companies) worked together to improve products and processes that supported continuous increases in semiconductor performance.

Beyond the development of standard test methods, key to minimizing risk in SUS adoption is the establishment of close working relationships between potential SUS suppliers and users. By partnering with potential SUS suppliers at an early stage, users can derive the maximum benefit from any future supplier relationship. This can result in a better performing or higher quality SUS product, stronger supply chain assurance, and also easier and faster validation and qualification.

While standardization of testing and measurement is an important step forward for SUS in bioprocessing, the standardization of SUS product design, such as fittings or dimensions to simplify adoption, may have a negative effect and limit the availability of new SU technology. For example: single-use hard plastic containers and fluoropolymer bottles are used for the freezing and storage of bulk drug substance prior to final fill. These bottles and containers have been traditionally manufactured by extrusion blow molding. A newer manufacturing technology, known as stretch blow molding, offers two key benefits in bioprocessing: superior closure integrity and significantly lower particulates. Standardizing on existing, older container design could deny the availability of new technology to biopharma users.

SUS adoption is at an exciting stage for the industry: standardization of SUS testing and measurement is rapidly developing. By partnering with potential SUS suppliers, Biopharma companies can challenge SUS suppliers to develop products for better performance, lower risk, and easier qualification, which will benefit the industry as a whole.

ABOUT MIKE OSGAR

Mike Osgar is co-owner and Vice President of Engineering at Savillex Corporation and has more than 30 years experience in the semiconductor, analytical chemistry, and biopharmaceutical industries.

ABOUT SAVILLEX CORPORATION

Savillex Corporation is based in Eden Prairie, MN, USA and specializes in fluoropolymer molding, including PFA and FEP single-use bottles for biopharma.



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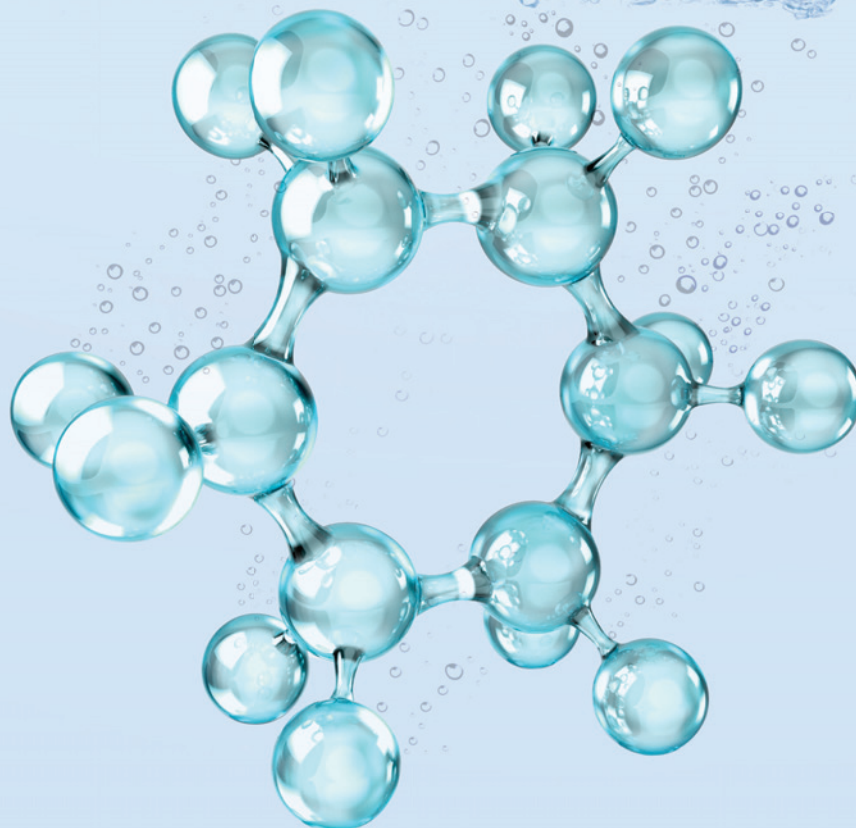


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