

2023 Buyers' Guide

For Service Providers and Suppliers of Raw Materials, Manufacturing Equipment, Instrumentation, Packaging, Environmental, Software, and More.

I. RAW MATERIALS

A. ADDITIVES

00150 ABRASION RESISTANCE IMPROVERS
 00200 ABSORBENTS
 00220 ACCELERATORS/HARDENERS
 00250 ACID CATALYSTS
 00300 ACID SCAVENGERS
 00350 ADHESION PROMOTERS
 00400 AMINE NEUTRALIZERS
 00450 ANTI-BLOCKING AGENTS
 00500 ANTI-CRATERING AGENTS
 00550 ANTI-CRAWLING AGENTS
 00600 ANTI-FLOAT AGENTS
 00650 ANTI-FLOODING AGENTS
 00700 ANTI-FOULING AGENTS
 00750 ANTI-FREEZING AGENTS
 00800 ANTI-GELLING AGENTS
 00850 ANTI-LIVERING AGENTS
 00900 ANTI-MARRING AGENTS
ANTI-MICROBIALS:
 00950 Algaecides
 00975 Bactericides
 01000 Biocides
 01025 Cuprous Oxide
 01050 Enzyme-Based Additives
 01075 Fungicides
 01100 In-Can Preservatives
 01125 Insecticides
 01150 Misc. Preservatives
 01175 Non-Mercurial
 01200 Silver-Based
01300 ANTI-OXIDANTS
01350 ANTI-RUST AGENTS
01400 ANTI-SAG AGENTS
01450 ANTI-SETTLING AGENTS
01500 ANTI-SILKING AGENTS
01550 ANTI-SKINNING AGENTS
01600 ANTI-SLIP/ANTI-SKID AGENTS
01700 ANTI-STATIC AGENTS (Anti-Stats)
01750 BIOBASED
01800 BODYING AGENTS
01850 BRIGHTENERS (Optical)

01900 BURNISH-RESISTANT ADDITIVES
01950 CATALYSTS
02050 CHELATING AGENTS
02100 CLEANABILITY ADDITIVES
02150 COAGULANTS
02200 COALESCENTS (Coalescing Agents)
02250 COLLOID STABILIZERS
02300 CORROSION INHIBITORS
02350 CORROSION-INHIBITIVE PIGMENTS
02400 COUPLING AGENTS
02450 CRAZE-RESISTANCE ADDITIVES
02500 CROSSLINKING AGENTS
02550 CURING AGENTS
02600 DEAERATORS
02650 DEFLOCCULANTS
DEFOAMERS:
 02750 Misc. Defoamers
 02800 Non-silicone
 02850 Silicone
02900 DEGASSING AGENTS
02950 DENATURANTS
03000 DESICCANTS
03050 DRIER STABILIZERS
DRIERS:
 03150 Drying Salts
 03200 Linoleates
 03250 Misc. Driers
 03300 Naphthenates
 03350 Neodecanoates
 03400 Octoates
 03450 Tallates
 03500 Water Dispersible
 03550 Waterborne
03600 DYES (For Use in Stains)
03650 ELECTROCONDUCTIVE ADDITIVES
03675 ENCAPSULATION TECHNOLOGY
03700 EXTENDERS
03750 FILLERS - NATURAL, CELLULOSIC, POLYMERIC
03800 FISH EYE PREVENTERS
03850 FLAME RETARDANTS
FLATTING AGENTS:
 03950 Dispersed
 04000 Misc. Flattening Agents

04050 Non-Metallic
04100 FLOCCULANTS
04150 FLOW & LEVELING AGENTS
04200 FLUIDIZING ADDITIVES
04250 FLUORESCENT ADDITIVES
04300 FOAMING AGENTS
04350 FREEZE-THAW STABILIZERS
04400 GELLING AGENTS
04450 GLOSS IMPROVERS
04500 GLYCERINE
04525 GREEN ADDITIVES
04550 GRINDING AIDS
04600 HALS (Hindered Amine Light Stabilizers)
04650 HAMMER FINISH ADDITIVES
04750 HASE THICKENERS
04800 HEAT STABILIZERS
04850 HEUR THICKENERS
04900 HOMOGENIZERS
04950 HUMECTANTS
05000 HYDROPHILES
05050 HYDROPHOBIC AGENTS
05100 HYGIENIC COATING ADDITIVES
05150 IMPACT RESISTANCE IMPROVERS
05200 INK ADDITIVES
05250 INTUMESCENT ADDITIVES
05300 LEAFING AGENTS
05320 LUBRICANTS (Solids)
05340 LUBRICANTS (Surfaces)
05350 LUMINESCENT ADDITIVES
05400 LUSTRANTS
05450 MASKING AGENTS
05500 MICROSPHERES
05550 MISC. OTHER ADDITIVES
05600 MISC. OTHER CHEMICAL SPECIALTIES
05650 MISC. POWDER COATING ADDITIVES
05700 MISC. VISCOSITY & FLOW-CONTROL AGENTS
MOISTURE SCAVENGERS:
 05775 Misc. Moisture Scavengers
 05800 Molecular Sieves
 05825 Zeolites
05850 NANOTECHNOLOGY ADDITIVES
05900 ODORANTS
05950 OILS

06000 ORANGE PEEL PREVENTERS**06050 ORGANIC PEROXIDES****06100 ORGANOCLOYS****06150 pH-CONTROL AGENTS****06175 PHOTOCATALYSTS****06200 PHOTOINITIATORS****06250 PHOTSENSITIZERS****06300 PINHOLE PREVENTATIVES****PLASTICIZERS:**

- 06400 Abietates
- 06450 Adipates
- 06500 Benzoates
- 06550 Castor Oil
(Polymerized/Oxidized)
- 06600 Castor Oil (Raw/Refined)
- 06650 Epoxidized
- 06700 Misc. Plasticizers
- 06750 Oil-Modified
- 06800 Phosphates
- 06850 Phthalates
- 06900 Polymeric
- 06950 Sebacates
- 07000 Sulfonamides

07050 POLYMERIC LIQUID CRYSTALS**07100 PRETREATMENT CHEMICALS****07150 PRINTING INK DISPERSANTS****AND VEHICLES****07200 PRINTING INK VARNISHES &****COMPOUNDS****07250 PROTECTIVE COLLOIDS****07300 PUFFING AGENTS****07350 REACTIVE DILUENTS****07375 REDUCING AGENTS****07385 RESIN MODIFIERS****07400 RETENTION AIDS****07450 SEAL/BARRIER COATING****ADDITIVES****07453 SELF-HEALING TECHNOLOGY****07475 SLIP AIDS****07485 SMART TECHNOLOGY****07500 SOIL REPELLANTS****07550 SPREADING AGENTS****STABILIZERS:**

- 07650 Lead
- 07700 Misc. Stabilizers
- 07750 Non-Metallic
- 07800 STAIN-RESISTANT ADDITIVES
- 07850 STEARATES
- 08150 SURFACE MODIFIERS
- 08200 SURFACE TENSION REDUCERS
- 08250 SURFACE-ACTIVE AGENTS

SURFACTANTS AND**DISPERSING AGENTS:**

- 08350 Anionic
- 08400 Cationic
- 08450 Nonionic
- 08500 Detergents
- 08550 Dispersing Agents
- 08600 Emulsifiers
- 08650 Flow Modifiers
- 08700 Misc. Surfactants & Dispersing
Agents
- 08750 Wetting Agents
- 08800 SUSPENSION AGENTS
- 08850 SYNERGISTS
- 08900 TACKIFIERS

08950 TEXTURIZING AGENTS**08975 THERMAL CONDUCTIVITY****ADDITIVES****THICKENING AGENTS AND****RHEOLOGY MODIFIERS:**

- 09050 Associative Thickeners
- 09100 Cellulosics
- 09150 Clays
- 09200 Fumed Silica
- 09250 Misc. Thickeners
- 09300 Precipitated Silica
- 09350 Solvent
- 09400 Water
- 09450 TRIBO-CHARGING ADDITIVES
- 09500 UV ABSORBERS & LIGHT
STABILIZERS
- 09550 VARNISHES
- 09600 VISCOSITY MODIFIERS
- 09650 WATER REPELLENTS
- 09700 WATER-REMOVAL
AGENTS/SCAVENGERS
- 09750 WATER-TREATMENT
CHEMICALS
- 09800 WAX EMULSIONS
- 09850 WAXES
- 09900 WET EDGE EXTENDERS
- 09950 WETTING AGENTS
- 10000 XANTHAN GUM

09450 TRIBO-CHARGING ADDITIVES**09500 UV ABSORBERS & LIGHT****STABILIZERS****09550 VARNISHES****09600 VISCOSITY MODIFIERS****09650 WATER REPELLENTS****09700 WATER-REMOVAL****AGENTS/SCAVENGERS****09750 WATER-TREATMENT****CHEMICALS****09800 WAX EMULSIONS****09850 WAXES****09900 WET EDGE EXTENDERS****09950 WETTING AGENTS****10000 XANTHAN GUM****B. OILS AND FATTY ACIDS****10100 COCONUT OIL****10150 DEHYDRATED CASTOR OIL****10200 FATTY ACIDS****10250 HYDROCARBON INK OILS****LINSEED OIL:**

- 10350 Blown
- 10400 Boiled
- 10450 Misc. Linseed Oil
- 10500 Raw
- 10550 Refined
- 10600 Special
- 10650 MARINE OIL
- 10700 MISC. OTHERS
- 10750 OITICICA OIL
- 10775 PINE OIL
- 10800 SOYBEAN LECITHIN
- 10850 SOYBEAN OIL
- 10900 SUNFLOWER OIL
- 10950 SYNTHETIC & MODIFIED OILS
- 11000 TUNG OIL

10650 MARINE OIL**10700 MISC. OTHERS****10750 OITICICA OIL****10775 PINE OIL****10800 SOYBEAN LECITHIN****10850 SOYBEAN OIL****10900 SUNFLOWER OIL****10950 SYNTHETIC & MODIFIED OILS****11000 TUNG OIL****C. POLYMERS/RESINS****ACRYLIC RESINS:**

- 11150 Misc. Acrylic
- 11200 Polymer Emulsion
- 11250 Solid
- 11300 Solution
- 11350 Styrene Acrylic Emulsions
- 11400 Vinyl Acrylic
- 11450 Water-Reducible
- 11550 Alkyd and Oil Copolymers
- 11600 Drying Oil-Modified
- 11650 Misc. Alkyd

ALKYD RESIN:

- 11150 Misc. Acrylic
- 11200 Polymer Emulsion
- 11250 Solid
- 11300 Solution
- 11350 Styrene Acrylic Emulsions
- 11400 Vinyl Acrylic
- 11450 Water-Reducible
- 11550 Alkyd and Oil Copolymers
- 11600 Drying Oil-Modified
- 11650 Misc. Alkyd

**11700 Nondrying & Semi-Oxidizing, Oil-
Modified****11750 Thixotropic****11800 Water-Reducible****11850 AMINO RESINS****11875 BIOBASED****11900 BITUMENS****11925 BUILDING BLOCKS****11950 CELLULOSE RESINS****12000 CROSSLINKING RESINS****12050 EPOXY HARDENERS****EPOXY RESINS:**

- 12150 Epoxy UV-Curing
- 12200 Ester
- 12250 Liquid Solution
- 12300 Misc. Epoxy
- 12350 Solid
- 12400 Waterborne
- 12450 ESTER GUMS

FLUOROPOLYMERS:**12457 FEVE Resins****12460 PVDF Resins****12475 GREEN RESINS****12500 HIGH-SOLID RESINS****HYDROCARBON RESINS:**

- 12600 Coumarone-Indene
- 12650 Emulsion
- 12700 Liquid/Solution
- 12750 Misc. Hydrocarbon
- 12800 Polybutadiene
- 12850 Solid
- 12900 Terpene
- 12950 MALEIC RESINS
- 13000 MELAMINE AND MELAMINE-
TYPE RESINS
- 13050 MISC. RESINS
- 13075 MONOMERS
- 13100 NATURAL RESINS
- 13150 NITROCELLULOSE
- 13200 OLEORESINOUS VARNISHES
- 13225 ORGANOMETALLIC RESINS

12600 Coumarone-Indene**12650 Emulsion****12700 Liquid/Solution****12750 Misc. Hydrocarbon****12800 Polybutadiene****12850 Solid****12900 Terpene****12950 MALEIC RESINS****13000 MELAMINE AND MELAMINE-
TYPE RESINS****13050 MISC. RESINS****13075 MONOMERS****13100 NATURAL RESINS****13150 NITROCELLULOSE****13200 OLEORESINOUS VARNISHES****13225 ORGANOMETALLIC RESINS****PHENOLIC RESINS:**

- 13300 Misc. Phenolic
- 13350 Modified for Powder Coatings
- 13400 Polyamide
- 13450 Solid
- 13500 Solution 915
- 13550 Waterborne
- 13600 POLYAMIDE RESINS
- 13650 POLYBUTENES

POLYESTER RESINS:

- 13800 Misc. Polyester
- 13850 Saturated
- 13900 Unsaturated
- 13950 Water-Reducible
- 13975 POLYOLS
- 14000 POLYSACCHARIDE RESINS
- 14050 ROSIN ESTERS
- 14100 SILICONE RESINS
- 14125 SMART TECHNOLOGY

13975 POLYOLS**14000 POLYSACCHARIDE RESINS****14050 ROSIN ESTERS****14100 SILICONE RESINS****14125 SMART TECHNOLOGY****STYRENE RESINS:**

- 14200 Misc. Styrene
- 14250 Styrene/Vinyl Toluene-Polymer &
Copolymer Solid
- 14300 Styrene/Vinyl Toluene-Polymer &
Copolymer Solution

14350 Styrene-Butadiene Emulsions

14400 ULTRAVIOLET-CURING RESINS

14450 UREA RESINS

URETHANE AND

POLYURETHANE RESINS:

14550 Oil-Modified (ASTM Type 1)

14600 ASTM Type II

14650 ASTM Type IV

14700 ASTM Type V

14750 Misc. Urethane and Polyurethane

14800 Waterborne

VINYL RESINS:

14900 Misc. Vinyl

14950 Polyvinyl Acetate

15000 Polyvinyl Butyral

15050 Polyvinyl Chloride and

Polyvinylidene Chloride

15100 Vinyl Acetate Polymer Emulsions

D. PIGMENTS, DISPERSIONS

BLACK, BROWN, AND GRAY

PIGMENTS:

15250 Black Iron Oxide

15300 Brown and Gray

15350 Carbon Black

15400 Drop and Bone Blacks

15425 IR-Reflective/Cool Black

15450 Lampblack

15500 Misc. Black

BLUE PIGMENTS:

15600 Blue, Purple and Violet PMA and
PTA Toners and Lakes

15650 Indanthrone Blue

15700 Iron Blue

15750 Misc. Blue, Purple and Violet

15800 Phthalocyanine Blue

15850 Ultramarine Blue

15900 COMPLEX INORGANIC COLOR

PIGMENTS

CORROSION-INHIBITING

PIGMENTS:

16000 Misc. Corrosion-Inhibiting

16050 Zinc Dust and Flakes

16100 Zinc Phosphate

16150 Zinc Yellow

DYES:

16250 Misc. Dyes

16300 Organic

16350 Solvent Soluble

16400 Water-Soluble

EXTENDER PIGMENTS:

16500 Alumina Trihydrate

16550 Barium Sulfate (Barytes, Blanc
Fixe)

16600 Bentonite

16650 Calcium Carbonate (Natural
Ground, Precipitated)

16700 China Clay and Aluminum
Silicate

16750 Feldspar

16800 Fillers/Fiber

16850 Glass Spheres

16900 Mica

16950 Microspheres

17000 Misc. Extenders

17050 Nepheline Syenite

17100 Silica - Amorphous-Naturally
Occurring

17150 Silica - Amorphous-Synthetic

17200 Silica - Quartz and Diatomaceous

17250 Talc or Magnesium Silicate

17300 Wollastonite

GREEN PIGMENTS:

17400 Chrome Green

17450 Chromium Oxide

17500 Green PMA and PTA Toners and
Lakes

17550 Hydrated Chromium Oxide

17600 Misc. Green

17650 Phthalocyanine Green

17700 Pigment Green B

IRON OXIDE PIGMENTS:

17800 Black Iron Oxide

17850 Burnt Sienna

17900 Burnt Umber

17950 Indian Red

18000 Metallic Brown

18050 Mineral Black

18100 Ochre

18150 Raw Sienna

18200 Raw Umber

18250 Red and Brown Iron Oxide -
Natural

18300 Red and Brown Iron Oxide -
Synthetic

18350 Spanish-Type Oxide

18400 Transparent Iron Oxides

18450 Van Dyke Brown

18500 Yellow Iron Oxide-Synthetic

18550 LIGHT-INTERFERENCE

PIGMENTS

METALLIC FLAKES AND

POWDERED PIGMENTS:

18650 Aluminum Pastes - Leafing

18700 Aluminum Pastes - Non-Leafing

18750 Aluminum Powders - Leafing

18800 Aluminum Powders - Non-Leafing

18850 Gold Bronze Powders

18900 Leafing Aluminum Enhancer

18950 Other Metallic Flakes and
Powders

18975 **OPACITY PIGMENTS**

OTHER PIGMENTS:

19050 High-Performance

19100 Holographic

19150 Iridescent

19200 Luminescent and Fluorescent

19250 Misc. Other

19300 Pearlescent

19350 Pearlescent Pigment Dispersions

19400 Special-Effect

PIGMENT DISPERSIONS

(AQUEOUS):

19500 Color Concentrates

19550 Machine Colorants

19600 Presscakes

19650 Solvent-Soluble Dyes

19700 Tube Colorants

19750 Universal Colorants

19800 Water-Soluble

**PIGMENT DISPERSIONS (NON-
AQUEOUS):**

19900 Acrylic Vehicle

19950 Alkyd Vehicle

20000 Epoxy Vehicle

20050 Nitrocellulose Vehicle

20100 Polyester Vehicle

20150 Universal Solvent Vehicle
Dispersion

20200 Urethane Vehicle

RED PIGMENTS:

20300 Alizarine or Madder Lake

20350 Arylide Red and Maroon

20400 BON Red and Maroon

20450 Cadmium Red

20500 Cadmium-Mercury Red, Maroon,
and Orange

20600 Diketopyrrolo Pyrrole (DPP)

20650 Lithol Rubine

20700 Misc. Red and Maroon Toners
and Lakes

20725 Naphthol Red

20750 Para Red, Chlorinated

Paranitraniline Toner

20800 Perylene Red and Maroon

20850 Pigment Scarlet

20900 Pyrazolone Red and Maroon

20950 Quinacridone Pigment

21000 Red Lake C

21050 Rhodamine

21100 Sodium Lithol, Calcium Lithol,
and Barium Lithol Toner

21150 Thioindigold Red and Maroon

21200 Toluidine Red

WHITE PIGMENTS:

21300 Aluminum Phosphate

21350 Antimony Oxide

21375 TiO₂ Replacement Technology

21400 Titanium Dioxide - Anatase

21450 Titanium Dioxide - Rutile

21500 Zinc Oxide

21550 Zinc Sulfide

YELLOW AND ORANGE

PIGMENTS:

21625 Bismuth Vanadate

21650 Cadmium Yellow and Orange

21700 Chrome Orange

21750 Chrome Yellow

21800 Diarylide Orange Toner

21850 Diarylide Yellow Toner

21900 Hansa Yellow

21950 Misc. Yellow and Orange Toners
and Lakes

22000 Misc. Yellow Pigments

22050 Molybdate Orange

22100 Orthonitraniline Orange,
Dinitraniline Orange

E. SOLVENTS

22200 ALCOHOLS

22250 ALIPHATIC HYDROCARBONS

22300 AROMATIC HYDROCARBONS

22350 CHLORINATED SOLVENTS

22400 COMPLIANT SOLVENTS

22450 CUSTOM SOLVENT BLENDING

22500 DENATURED ALCOHOLS
22550 ESTERS
22600 GLYCOL ETHERS
22650 GLYCOLS
22700 KETONES
22750 MISC. SOLVENTS
22800 NITROPARAFFINS
22850 NON-HAP SOLVENTS
22900 RECLAIMED SOLVENTS

II. MANUFACTURING EQUIPMENT

23000 AGITATORS
23050 BATCH CONTROLLERS
23100 BATCH-WEIGHING EQUIPMENT
23150 BEADS, CERAMIC
23200 BEADS, GLASS, SMALL MEDIA
MILL
23250 BLENDERS
23300 BLENDERS, CONICAL
23350 BLENDERS, CYLINDER
23400 BLENDERS, PORTABLE
23450 BLENDERS, RIBBON
23500 BLENDING TANKS
23550 BLUNGER
23600 CENTRIFUGES (also in
Test/Measurement section)
CLEANING:
23620 Blasting/Supplies
23625 Cleaners/Solvents
23650 Cleaning Equipment (Systems,
Tub, Etc.)
23670 Industrial Vacuum Cleaners
23680 Ultrasonic Cleaners
23700 COLOR CARDS
23750 COLOR CONTROL SYSTEMS
23800 COLOR DISPLAYS
23850 COLOR FLUSHING EQUIPMENT
23900 COLOR MERCHANDISING AIDS
23950 COLOR METERS, COLOR-
MATCH INSTRUMENTS
24000 CONTROL SYSTEMS
24050 CRUSHERS (Can, Drum, Etc.)
24100 CURING SYSTEMS
24150 DISPERSAL BLADES
24200 DISPERSAL MEDIA
24250 DISPERSERS
24300 DISTILLATION EQUIPMENT
24350 DUST-COLLECTION EQUIPMENT
24400 FILM APPLICATORS
24500 FILMS
24550 FILTER PRESSES
24600 FILTER/PRESSURE VESSELS
24650 FILTERING BAGS/STRAINERS
24700 FILTERING CARTRIDGES
24750 FLEXIBLE SCREW CONVEYORS
24800 FORK LIFTS
24850 GAUGES - PRESSURE
24900 GLOSSMETERS
24950 GLUING MACHINES
25000 GRINDING EQUIPMENT
25050 GRINDING MEDIA
25100 HEAT BOILERS - WASTE
25150 HEAT EXCHANGERS

25200 HEAT-RECOVERY SYSTEMS -
WASTE
25250 HEAT-TRANSFER FLUIDS
25300 HOLDING, MIXING TANKS
25350 HOLIDAY DETECTORS (also in
Test/Measurement section)
25375 HOSES
25400 HUMIDITY CHAMBERS
25450 IMPELLERS
25500 INFRARED-CURING EQUIPMENT
25550 LEVEL CONTROLS
25600 LEVEL SENSORS
25650 LEVEL SENSORS, ULTRASONIC
25700 LIGHT BOOTH
25750 LIQUID LEVEL INDICATORS
25800 MACHINES
25850 MECHANICAL CONVEYORS
25900 METERING EQUIPMENT -
ELECTRONIC
25950 METERS
26000 METERS, pH
26050 MICROPROCESSORS
MILLS:
26150 Attrition
26200 Ball
26225 Basket
26250 Bead
26300 Centrifugal Mills
26350 Colloid
26400 Horizontal
26450 Impact
26500 Jar and Jar Rolling
26550 Laboratory
26600 Misc. Mills
26650 Pebble
26700 Peg
26750 Roller
26800 Sand
26850 Shot
26900 Small Media
26950 Vertical
MIXERS:
27050 Bottom-Entry
27100 Change-Can
27150 Cone Screw
27200 Counter-Rotating
27250 Direct-Drive Agitators
27300 Double-Planetary
27350 Drum
27400 Dual-Shaft
27450 High-Shear Batch
27500 High-Speed
27550 High-Speed Dispensers
27600 High-Speed Rotor Stator
27650 High-Viscosity
27700 Homogenizers
27750 Horizontal Paddle-Type
27800 IBC
27850 In-Line Mechanical
27900 In-Line Motionless
27950 Jacketed Half Pipe or Dimple
28000 Jet (Powder Dissolving)
28050 Kneader Extruder
28075 Laboratory
28100 Low-Shear
28150 Misc. Mixers

28200 Pipe Line
28250 Reactor
28300 Rotary Batch
28350 Rotor Blade
28400 Side-Entry
28450 Spiral Blade
28500 Static
28550 Top-Entry
28600 Triple-Shaft
28650 MIXING EQUIPMENT
28700 MIXING EQUIPMENT - AIR
POWERED
28750 MIXING/DISPERSION BLADES
OVENS:
28850 Microwave
28900 Misc. Ovens
28950 Thermal
29000 Vacuum
29050 OXIDIZERS, CATALYTIC
29100 OXIDIZERS, THERMAL
29150 PAINT SHAKERS
29175 PAINT STRIPPERS
29200 PALLET CONVEYOR
29250 PALLET DISPENSERS
29300 PALLETIZERS
29350 PARTICLE CHARACTERIZATION
29400 PASTE MIXERS, HORIZONTAL
29450 PIGGING SYSTEMS
29500 PNEUMATIC CONVEYORS
29550 PORTABLE DISPLAY SYSTEM
POWDER COATING EQUIPMENT:
29640 Cleaners/Strippers
29650 Curing Systems
29700 Extruders
29750 Filter Belts
29800 Fluidized Beds
29850 Mills
29900 Misc. Powder Equipment
29950 PROPORTIONING SYSTEMS
AND COMPONENTS
PUMPS:
30050 Air-Operated
30100 Carboy
30150 Centrifugal
30200 Diaphragm
30250 Drum
30300 Hand
30350 High-Pressure
30400 Metering
30450 Misc. Pumps
30500 Positive-Displacement Rotary
30550 Proportional
30600 Pulsation Dampeners
30650 Reciprocating
30700 Turbine Rotary
30750 Vacuum
30800 RAM DISCHARGE
30850 REACTOR & RECOVERY
SYSTEMS
30900 REDUCTION EQUIPMENT
30950 REFLECTOMETERS
31000 REGISTERS - ELECTRONIC &
MECHANICAL
31025 ROBOTS
31050 ROLLS - SETS
31075 SAFETY EQUIPMENT

31100 SCREENING
31150 SEPARATORS
31200 SEPARATORS - MAGNETIC
31250 SHAKERS
31300 SIEVING EQUIPMENT
31350 SIZE REDUCERS
31400 SOLVENT-RECOVERY EQUIPMENT (also in Environmental section)
31450 SPECIAL DESIGN MACHINERY
31500 SPRAY BOOTH
31550 SPRAYING EQUIPMENT
31575 STATIC CONTROL
31600 STRAINING EQUIPMENT
31650 TEMPERATURE COMPENSATORS
31700 TEMPERATURE EQUIPMENT/CONTROLS
31725 THICKNESS GAUGES (also in Test section)
31750 TUBULAR CONVEYORS
31800 TURN-KEY PROCESSES
31875 USED EQUIPMENT (Buying/Selling)
31900 UV-CURE SYSTEMS
31950 UV LAMPS
32000 VALVES
32050 VISCOMETERS
32100 WASTE COMBUSTION EQUIPMENT

III. TEST/MEASUREMENT INSTRUMENTATION AND SERVICES

32200 ACCELERATED WEATHERING
32250 ADSORPTION EQUIPMENT
32300 AIR MAKEUP/EXHAUST
32350 AIR POLLUTION/EFFLUENT CONTROL
32400 AIR QUALITY MONITORING EQUIPMENT
32450 AIR SAMPLING AND ANALYSIS EQUIPMENT
ANALYZERS:
 32550 Biochemical Oxygen Demand (BOD)
 32600 Chemical Oxygen Demand (COD)
 32650 Elemental (CHN)
 32700 Film Formation
 32750 Headspace
 32800 Kjeldahl Nitrogen
 32850 Misc. Analyzers
 32900 Moisture
 32950 Particle
 33000 Stability
 33050 Suspended Solids
 33100 Total Nitrogen
 33150 Total Organic Carbon (TOC)
BALANCES:
 33250 Analytical
 33300 Misc. Balances/Scales
 33350 Moisture
 33400 Top-Loading

33450 BATHS, CONSTANT TEMPERATURE
33500 BUILDING/CLEAN ROOMS
33550 CALORIMETERS, DIFFERENTIAL SCANNING CENTRIFUGES:
 33650 Misc. Centrifuges
 33700 Table Top
CHROMATOGRAPHY, GC:
 33800 GC/MS Systems
 33850 Pyrolysis
33900 CHROMATOGRAPHY, GEL PERMEATION
33950 CHROMATOGRAPHY, LC
34000 CLEANING EQUIPMENT
34050 CLEANING SUPPLIES, LABORATORY
34100 COATING APPLICATION
34150 COLOR CARDS
34200 COLOR CONTROL SYSTEMS
34250 COLOR MATCHING/MEASURING CONSULTING:
 34350 Analytical Services
 34400 Misc. Consulting
 34450 Technical Consulting
CONTRACT SERVICES:
 34550 AFM Surface Analysis
 34600 Independent Test Labs
 34650 Misc. Other Contract Services
 34700 Solvent Reclamation
34750 DENSITY CUPS
34800 DESICCATORS
34850 DIFFERENTIAL SCANNING CALORIMETRY (DSC)
34900 DIFFERENTIAL THERMAL ANALYSIS (DTA)
34950 DRYING TIME RECORDERS
35000 DUST COLLECTORS
35050 DYNAMIC MECHANICAL ANALYSIS (DMA)
ELECTRODES:
 35150 Glassy Carbon
 35200 Graphite
 35250 Ion-Selective
 35300 Karl Fischer
 35350 Misc. Electrodes
 35400 pH
35450 ENVIRONMENTAL CONTROLS
35500 ENVIRONMENTAL TEST EQUIPMENT
35550 EXPLOSION PROTECTION SYSTEMS
35600 EXPOSURE TESTING
35650 FILM APPLICATORS
35800 FILTERS
35850 FLAME HOODS
35900 FLAMMABILITY TESTING INSTRUMENTS
36000 FLOW METERS
36050 FUNNELS
FURNACES:
 36150 Misc. Furnaces
 36200 Muffle
 36250 Vacuum

36300 FURNITURE, LABORATORY, BENCHES, TABLES, AND DESKS
GAUGES:
 36400 Fineness of Grind
 36450 Grind
 36500 Misc. Gauges
 36550 Pressure
36650 GENERAL LABORATORY EQUIPMENT
36700 GLOVE BOXES
36750 HAZARDOUS MATERIALS HANDLING EQUIPMENT
36800 HIGH-SPEED MIXERS
36850 HOLIDAY DETECTORS
36900 HOODS, FUME
36950 HOT PLATES
37000 HUMIDITY/CONDENSATION CHAMBERS
37050 ICP
37100 IMAGE ANALYZERS
37200 LAB CARTS
LABWARE:
 37300 Glass
 37350 Misc. Other Labware
 37400 Plastic
37450 LIGHT BOOTHS
37500 MECHANICAL TESTING EQUIPMENT
METERS:
 37600 Conductivity
 37650 Contact Angle
 37750 Micro Wave Scan
 37800 Misc. Meters
 37850 Moisture
 37900 pH
 37950 Wave Scan
 38000 Wood Moisture
MICROSCOPES:
 38100 Atomic Force
 38150 Infrared
 38200 Misc. Microscopes
 38250 Optical
 38300 Polarizing
38350 MICROWAVE DIGESTERS
38400 MIXERS/MILLS/GRINDERS
38450 MOLECULAR WEIGHT DETERMINATION
38500 ODOR-CONTROL EQUIPMENT
38550 OUTDOOR-EXPOSURE TEST EQUIPMENT
OVENS-LABORATORY:
 38650 Microwave Ovens
 38700 Misc. Ovens
 38750 Thermal
 38800 Vacuum
38850 PAINT OVERSPRAY RECOVERY/RECYCLING
38900 PARTICLE MEASUREMENT
38950 PARTICLE SIZE CHARACTERIZATION
39000 PH METERS
39050 PSYCHROMETERS
PUMPS:
 39150 Misc. Pumps
 39200 Vacuum

39225 REAGENTS**39250 RESPIRATORS, CHEMICAL
CARTRIDGE/FILTER/
DISPOSABLE****39300 RHEOMETERS, LIQUID****39350 RHEOMETERS, POWDER
SAFETY EQUIPMENT:**

- 39435 Anti-Fatigue Floor Mats
- 39450 Cans
- 39500 Eyeglasses and Goggles
- 39550 Eyewash Fountains
- 39600 Flammable Materials, Storage Cabinets
- 39650 Gloves
- 39700 Misc. Safety Equipment
- 39750 Protective Clothing
- 39800 Spill Cleanup

39850 SAFETY/HEALTH SERVICES**39900 SAMPLE PREPARATION****39950 SEM****40000 SHAKERS, PAINT****40050 SIFTERS****40100 SLUDGE TREATMENT****40150 SLUDGE-HANDLING
EQUIPMENT****40200 SOFTWARE, LABORATORY
INFORMATION MANAGEMENT
SYSTEMS (LIMS)****40250 SOLIDS ANALYZERS****40300 SOLVENT-RECOVERY
EQUIPMENT****40350 SPATULA, SS****40400 SPECIFIC GRAVITY CUPS
(PYKNOMETER)
SPECTROMETERS:**

- 40500 AA
- 40550 GC/MS
- 40600 ICP
- 40650 IR, FT-IR
- 40700 Mass
- 40750 Misc. Spectrometers
- 40800 Raman
- 40850 UV-VIS
- 40900 X-Ray

SPECTROPHOTOMETERS:

- 41000 Color-Measuring
- 41050 Fluorescence
- 41100 Infrared
- 41150 Misc. Spectrophotometers
- 41200 Ultraviolet

41250 STIRRERS**SURFACE ANALYSIS:**

- 41350 Atomic Force Microscopy
- 41400 Auger Spectroscopy
- 41450 Electron Microprobe
- 41500 ESCA
- 41550 Ion-Scattering Spectrometry
- 41600 Misc. Surface Analysis
- 41650 Scanning Tunneling Microscopy
- 41700 Sims
- 41750 Surface Area

**41800 TEMPERATURE
INSTRUMENTATION****41850 TENSOMETERS****41900 TEST CHARTS****TESTING INSTRUMENTS:**

- 42000 Abrasion
- 42050 Adhesion
- 42100 Chromatographic Support
- 42150 Chromatographs
- 42200 Coefficient of Friction
- 42250 Contact Angle
- 42300 Cross Hatch Cutter
- 42350 Densitometers
- 42400 Distinctness of Image Meters
- 42450 Flashpoint
- 42500 Glossmeters (also in Manufacturing Equipment)
- 42550 Hardness
- 42600 Hazemeters
- 42650 Holiday Detectors
- 42700 Hygrometers
- 42750 Impact Testers
- 42800 Mandrel Bend
- 42850 Microbial/Bacteria/Fungi
- 42900 Misc. Testing Instruments
- 42950 Particle-Size Analyzers
- 43000 Pencil Hardness
- 43050 Permeability Cups
- 43100 pH Meters
- 43150 Pinhole Detector
- 43200 Reflectometers
- 43250 Refractometers
- 43300 Specific Gravity
- 43350 Surface-Tension
- 43400 Taber Abrasion
- 43450 Tensile Strength and Elongation
- 43500 Viscosity
- 43550 Wet Abrasion
- 43600 THERMOMETERS**
- 43650 TESTING PANELS**
- 43675 THICKNESS GAUGES (also in Manufacturing Equip. section)**

43700 TITRATORS**43750 ULTRASONIC CLEANERS****43775 UV-CURING SYSTEMS****43800 UV MEASUREMENT****43850 VISCOMETERS****43900 WATERBATH****43950 WASTE COMBUSTION
EQUIPMENT****WASTE DISPOSAL:**

- 44050 Misc. Waste Disposal
- 44100 Recycling
- 44150 WASTEWATER TREATMENT**
- 44200 WEATHERING CHAMBERS**
- 44250 WEIGHING DISHES**
- 44300 WEIGHT PER GALLON CUPS**
- 44350 WOOD TONGUE DEPRESSORS**
- 44400 X-RAY DIFFRACTION SYSTEMS**

**IV. ENVIRONMENTAL
EQUIPMENT AND SERVICES**

44500 ADSORPTION EQUIPMENT**44550 AIR MAKEUP/EXHAUST****44600 AIR POLLUTION/EFFLUENT
CONTROL****44650 AIR SCRUBBERS****44700 BUILDING/CLEAN ROOMS****44750 CONSULTING****CONTRACT SERVICES:**

- 44850 Hazardous Waste Cleanup
- 44900 Inspection
- 44950 Monitoring
- 45000 Permit Assistance
- 45050 Solvent Reclamation
- 45100 Waste Testing
- 45150 DUST COLLECTORS**
- 45200 ENGINEERING**
- 45250 ENVIRONMENTAL CONTROLS**
- 45300 ENVIRONMENTAL TEST
EQUIPMENT**
- 45350 EXPLOSION PROTECTION
SYSTEMS**
- 45400 EXPLOSION RELIEF VENTING**
- 45450 EXPOSURE TESTING**
- 45500 HAZARDOUS MATERIALS
HANDLING EQUIPMENT**
- 45525 HAZARDOUS MATERIALS
TESTING**
- 45550 INDUSTRIAL VACUUM
CLEANERS**
- 45600 ODOR-CONTROL EQUIPMENT**
- 45650 PAINT OVERSPRAY
RECOVERY/RECYCLING**
- 45700 SAFETY/HEALTH SERVICES**
- 45750 SLUDGE-HANDLING
EQUIPMENT**
- 45800 SLUDGE TREATMENT**
- 45850 SOLVENT-RECOVERY
EQUIPMENT (also in
Manufacturing Equipment)**
- 45900 VENTILATION
WASTE DISPOSAL:**
- 46000 Recycled
- 46050 WASTEWATER TREATMENT**

V. COMPUTER SOFTWARE

46150 COLOR MEASURING**46200 FORMULATION****46250 INTERNET COMPANIES****46300 LAB ANALYSIS****46350 MISC.****46450 ONLINE INFORMATION
SERVICES****46500 ONLINE MARKETING SERVICES****46550 PRODUCTION****46570 REGULATORY COMPLIANCE****46580 SDS-SAFETY DATA SHEETS**

**VI. PACKAGING AND
MATERIAL HANDLING**

**46645 BARCODE
SCANNERS/PRINTERS****46650 CAN CLIPS****46700 CAN/LABEL ORIENTORS****46750 CAN & PAIL CLOSERS****CONTAINERS/CANS:**

- 46850 Aerosol Packaging
- 46900 Aluminum/Shipping
- 46950 Bags, Bulk
- 47000 Bags, Multiwall

47050 Bags, Polypropylene
47075 Cartridges
47100 Composite (Fiber)
47150 Corrugated
47200 Disposable, Paperboard
47250 Intermediate Bulk
47300 Metal
47350 Misc. Containers/Cans
47400 Plastic
47450 Reconditioned and Repaired
47475 Recyclable
47500 Stainless Steel
47550 Steel
47600 Steel Shipping

47650 DEPALLETIZERS

DISPENSING:

47750 Colorant
47800 Computerized
47825 Equipment
47850 Nozzles
47875 Pneumatic

DRUMS:

47950 Fiber
48000 Interior Linings
48050 Misc. Drums
48100 Plastic
48150 Reconditioned
48200 Removable Liners

48250 Steel
48300 DRUM CONVEYOR
48350 DRUM-HANDLING EQUIPMENT
48400 DRUM POURING EQUIPMENT
FILLING EQUIPMENT:
48500 Feeders
48550 Fillers
48600 Lid-Closing Machines
48650 Lid Openers
48700 Lid Punch Closures
48750 Lid Punch - 5-Gallon Containers
48800 Misc. Filling Equipment

**48850 HAZARDOUS MATERIAL
CONTAINERS**

48950 LABEL MACHINES

49000 LABEL PRINTING

49050 LABELS

49150 PACKAGE SERVICES - CUSTOM

49200 PACKAGING DENESTERS

49250 PAIL CONVEYORS

49275 ROBOTS

49300 SEALING EQUIPMENT

49350 SHRINK WRAP

TANKS:

49450 Cleaning Equipment
49500 Cleaning Services
49550 Fiberglass
49600 Metal

49650 Misc. Tanks
49700 Plastic
49750 Polyurethane
49800 Portable
49850 Process
49900 Shipping
49950 Storage
50000 Thinning/Tinting
50050 Tote

**VII. CONSULTING AND
SERVICES**

CONSULTING:

50200 Analytical Services
50250 Business
50300 Job Search
50350 Process Engineering
50400 Product Development
50450 Technical

50500 PRINTING SERVICES

50525 REGULATORY COMPLIANCE

50550 TESTING SERVICES/

LABORATORIES

50600 TOLL MANUFACTURING

50650 TOUCH-UP PAINT
