

# CERAMIC INDUSTRY

The Exclusive Global Voice of Ceramic  
& Glass Business and Manufacturing

## 2010 MATERIALS HANDBOOK Product Locator Codes

- Record your materials selections using the headings and code numbers below, referring to the enclosed order form on page 2 for additional information.
- If your material is not listed, please contact Susan Sutton, editor-in-chief, at (330) 336-4098; fax (248) 502-2033; email [suttons@bnpmedia.com](mailto:suttons@bnpmedia.com).

00050 ABRASIVES	03350 ARSENIC OXIDE	06420 <b>CADMIUM AND COMPOUNDS OF:</b>
00100 ACCELERATOR	03400 BADDELEYITE	06450 Antimonide
00150 ACETIC ACID	03450 BARITE	06500 Carbonate
00200 ACID	03470 <b>BARIUM AND COMPOUNDS OF:</b>	06550 Fluoride
00250 ADHESIVES	03500 Aluminate	06600 Niobate
00300 ADSORBANTS	03550 Carbonate	06650 Orthophosphate
00350 AGGREGATE	03600 Cerium Oxide	06700 Oxide
00400 ALBITE	03650 Chloride	06750 Silicate
00450 ALGINATES	03700 Chromate	06800 Sulfide
00500 ALKALI	03750 Ferrite	06850 Telluride
00550 ALKALINE EARTHS	03800 Fluoride	06900 Tungstate
00600 ALKOXIDE	03850 Hydroxide	06950 Zirconate
00650 ALLOYS	03900 Metaphosphate	07000 CALCINED FIRE CLAY
00700 ALUM	03950 Molybdate	07050 CALCITE
00750 <b>ALUMINA:</b>	04000 Monohydrate	07070 <b>CALCIUM AND COMPOUNDS OF:</b>
00800 Activated	04050 Nitrate	07100 Aluminate
00850 Bodies	04100 Octahydrate	07150 Aluminum Silicate
00900 Bubble	04150 Oxide	07200 Antimonate
00950 Calcined	04200 Peroxide	07250 Boride
01000 Chrome	04250 Silicate	07300 Carbonate
01050 Colloidal	04300 Stannate	07350 Cyanamide
01100 Fibers, Polycrystalline	04350 Sulfate	07400 Fluorophosphate
01150 Fused	04400 Sulfide	07450 Fluoride
01200 High-Purity	04450 Tantalum Oxynitride	07500 Hexaboride
01250 Hydrated	04500 Titanate	07550 Magnesium Silicate
01300 Platelets	04550 Tungstate	07600 Metaborate
01350 Reactive	04600 Zirconate	07650 Molybdate
01400 Single Crystal	04650 Zirconium Silicate	07700 Nitrate
01450 Tabular	04700 <b>BARYTES</b>	07750 Orthosilicate
01500 Transformation-Toughened	04750 <b>BASTNASITE</b>	07800 Oxide
01550 Trihydrate	04800 <b>BAUXITE:</b>	07850 Phosphate
01600 Zirconia-Toughened	04850 Calcined	07900 Silicate
01650 ALUMINUM	04900 BELITE	07950 Stannate
01700 ALUMINUM ANTIMONIDE	04950 BENTONITE	08000 Sulfate
01750 ALUMINUM CARBIDE	05000 BERYL	08050 Titanate
01800 ALUMINUM FLUORIDE	05050 BERYLLIA	08100 Tungstate
01850 ALUMINUM HYDROXIDE	05070 <b>BERYLLIUM AND COMPOUNDS OF:</b>	08150 Zirconate
01900 <b>ALUMINUM NITRIDE:</b>	05100 Aluminate	08200 Zirconium Silicate
01950 Whiskers	05150 Carbide	08250 CALSPAR
02000 Silica Coated	05200 Oxide	08300 CARBIDE
02050 ALUMINUM OXIDE	05250 BICROMATE OF POTASSIUM	08350 CARBIDES, COMPOSITE
02100 ALUMINUM PHOSPHATE, MONO	05300 BINDERS	08400 CARBOLIC ACID
BASIC	05320 <b>BISMUTH AND COMPOUNDS OF:</b>	08450 CARBON AND GRAPHITE
02150 ALUMINUM POTASSIUM BORATE	05350 Oxide	08500 CARBON BLACK
02200 <b>ALUMINUM SILICATE:</b>	05400 Selenide	08550 CARBON/CARBON
02250 Calcined	05450 Stannate	08570 CARBON FIBER, AMORPHOUS
02300 ALUMINUM SULFATE	05500 Subnitrate	08580 CARBON FIBER, DLC (DIAMOND LIKE
02350 ALUMINUM TITANATE	05550 Telluride	CARBON)
02400 AMBLYGONITE	05600 Titanate	08600 CARBONATE
02450 AMMONIA	05650 Zirconate	08650 CASSITERITE
02470 <b>AMMONIUM AND COMPOUNDS OF:</b>	05700 BONDING MATERIALS	08700 CATALYSTS
02500 Bicarbonate	05750 BONE ASH	08750 CAUSTIC LIME
02550 Bifluoride	05800 BORAX	08800 CAUSTIC POTASH
02600 Metavandate	05850 BORIC ACID	08850 CAUSTIC SODA
02650 Paratungstate	05900 BORIDES	08900 CELESTITE
02700 ANDALUSITE	05950 BORON	08950 CELLULOSE, MICROCRYSTALLINE
02750 ANDESINE	06000 <b>BORON CARBIDE:</b>	09000 CELLULOSE NITRATE
02800 ANHYDRITE	06020 Fiber	09050 CELSIAN
02850 ANHYDROUS RASORITE	06050 Platelets	09100 <b>CEMENT:</b>
02900 ANORTHITE	06100 Whiskers	09150 Calcium Aluminate
02950 ANTIMONY OXIDE	06120 BORON FIBER	09200 Cement, Gypsum
03000 <b>ANTIMONY SULFIDE:</b>	06150 BORON NITRIDE	09250 High-Temperature
03050 High-Purity	06170 BORON NITRIDE FIBER	09300 Portland
03100 APATITE	06200 BORON PHOSPHIDE	09350 Refractory
03150 APLITE	06250 BORON TRIBOMIDE	09370 <b>CERIUM AND COMPOUNDS OF:</b>
03200 AQUA REGIA	06300 BOROSILICATE	09400 Cerium Fluoride
03250 ARAGONITE	06350 BRAZING	09450 Cerium Oxide
03300 ARSENIC	06400 BRUCITE	09500 Cerium Sulfide

09550 CERMETS  
09600 CESIUM  
09650 CHALK  
09700 CHROME ALUMINA  
09750 CHROMITE  
09800 **CHROMIUM AND COMPOUNDS OF:**  
09850 Aluminate  
09900 Borides  
09950 Carbides  
10000 Nitrides  
10050 Oxide  
10100 Silicides  
10150 CITRIC ACID  
10200 **CLAY:**  
10250 Ball  
10300 Calcined  
10350 China  
10400 Conditioners  
10450 Enamel  
10500 Engobe  
10550 Fire or Refractory  
10600 Clay, Glaze  
10650 Hydrous  
10700 Modeling  
10750 Sagger  
10800 Slip  
10850 Stoneware  
10900 Wad  
10950 CLEANERS  
11000 CLINOCHLORE  
11050 **COATINGS:**  
11100 Ceramic  
11150 Diamond  
11200 High-Heat-Resisting  
11250 Superconductor  
11300 Thermal Spray  
11350 Coatings, Zirconia  
11370 **COBALT AND COBALT COMPOUNDS:**  
11400 Acetate  
11450 Aluminate  
11550 Carbonate  
11600 Chloride  
11650 Chromate  
11700 Hydroxide  
11750 Nitrate  
11800 Oxide  
11850 Sulfate  
11900 Sulfide  
11950 COLEMANITE  
12000 COLLOIDAL OXIDE  
12050 COLOR SPECKS, SIZED  
12100 COLORANTS  
12150 **COPPER AND COMPOUNDS OF:**  
12200 Carbonate  
12250 Oxide  
12300 Sulfate  
12350 Titanate  
12400 CORDIERITE  
12450 CORNWALL STONE  
12500 CORUNDUM  
12550 COUPLING AGENTS  
12600 CRISTOBALITE  
12650 CROCUS MARTIS  
12700 CRYOLITE  
12750 CULLET  
12800 CYANIDES  
12850 DECOLORIZER  
12900 DEFLOCCULANT  
12950 DEFOAMERS  
13000 DEHYDROABIETYLAMINE  
13050 DEXTRIN  
13100 **DIAMOND:**  
13150 Coatings, Composite  
13200 Industrial  
13250 Powder Compounds  
13300 DIATOMACEOUS EARTH  
13350 DICHLORODIMETHYLSILANE  
13400 DIELECTRIC POWDERS  
13450 DIKETONE  
13500 DIOPSIDE  
13550 DIP COATINGS  
13600 DISPERSANT  
13650 DOLOMITE  
13700 DUMORTIERITE  
13750 DYES

13770 **DYSPROSIUM AND COMPOUNDS OF:**  
13800 Chloride  
13850 Oxide  
13900 ELECTROCONDUCTIVE POWDERS  
13950 ELECTROLYTE  
14000 ENCAPSULANTS  
14050 ENGOBE  
14100 ENSTATITE  
14150 EPOXY CEMENTS AND RESINS  
14200 ERBIUM OXIDE  
14250 ETHYL CELLULOSE  
14300 EUCRYPTITE  
14350 EUROPIUM OXIDE  
14400 FELDSPAR  
14450 FERRIC CHLORIDE  
14500 FERRIC OXIDE  
14550 FERRITES  
14600 FERROSPINEL  
14650 FERROUS OXIDE  
14700 FERROUS SULFATE  
14750 FILLERS, CERAMIC  
14800 FILTRATION RATE ADDITIVE  
14850 FIRECLAY  
14900 FLINT  
14950 FLUORBARITE  
15000 FLUORIDES  
15050 FLUORINE  
15100 FLUORSPAR  
15150 FLUX  
15200 FORMALDEHYDE  
15250 FORSTERITE  
15300 FRIT  
15350 FUCHSINE DYE  
15400 FUEL CELL MATERIALS  
15450 FULLERENES  
15500 FUNGICIDES  
15550 GADOLINIUM OXIDE  
15600 **GALLIUM AND COMPOUNDS OF:**  
15650 Antimonide  
15700 Arsenide  
15750 Ferric Oxide  
15800 Nitride  
15850 Oxide  
15900 Phosphide  
15950 GARNET  
16000 **GERMANIUM AND COMPOUNDS OF:**  
16050 Dioxide  
16100 Monoxide  
16150 Nitride  
16200 Oxide  
16250 GERSTLEY BORATE  
16300 GERSTLEY BORATE (SUBSTITUTE)  
16350 **GLASS:**  
16400 Powdered  
16450 Ready To Press  
16500 GLASS ENAMEL  
16550 GLASS SAND  
16600 GLASS-BONDED MICA  
16650 GLASS-MICA COMPOSITE  
16700 GLAUBERS SALTS  
16750 **GLAZE:**  
16800 Crystals  
16850 Stains  
16950 GLUCOSE  
17000 GLYCERINE  
17050 GOLD  
17100 GOLD CHLORIDE  
17150 GRAIN, REFRACTORY  
17200 GRAINING OXIDE  
17250 **GRAPHITE:**  
17300 Fibers And Fabrics  
17350 Pyrolytic  
17400 Structural  
17450 Vitreous  
17500 GRIT  
17550 GROG  
17600 GUM ARABIC  
17650 GUM TRAGACANTH  
17700 **GYPSUM:**  
17750 Cements  
17800 Glass Batch  
17850 HAFNIUM BORIDE  
17900 HAFNIUM CARBIDE  
17920 HAFNIUM CARBIDE FIBER  
17950 HAFNIUM FLUORIDE

18000 HAFNIUM NITRIDE  
18050 **HAFNIUM OXIDE:**  
18100 High-Purity  
18150 HAFNIUM SILICATE  
18200 HALLOYSITE  
18250 HEAVY SPAR  
18300 HECTORITE  
18350 HEMATITE  
18400 HEXABORON SILICIDE  
18450 HEXAME THYLDISILAZONE  
18500 HOLMIUM OXIDE  
18550 HORNBLLENDE  
18600 HYDROABIETYL ALCOHOL  
18650 HYDROCHLORIC ACID  
18700 HYDROFLUORIC ACID  
18750 HYDROGEN  
18800 HYDROXYAPATITE  
18850 ICE COLORS  
18900 ILLITE  
18950 ILMENITE  
18975 **INDIUM AND COMPOUNDS OF:**  
19000 Antimonide  
19050 Arsenide  
19100 Nitride  
19150 Oxide  
19200 Phosphide  
19225 INGOT, ELECTRON BEAM PHYSICAL  
VAPOR DEPOSITION  
19250 INJECTION MOLDING COMPOUNDS,  
CERAMIC  
19300 **INKS:**  
19350 Inorganic  
19400 Organic  
19450 INTERMETALLIC COMPOUNDS  
19500 IRIIDIUM OXIDE  
19550 **IRON AND COMPOUNDS OF:**  
19600 Chromate  
19650 Chromite  
19700 Oxide, Micaceous  
19800 Phosphide  
19850 Propoxide  
19900 Pyrites  
19950 Silicate  
20000 Sulfate  
20050 Sulfide  
20100 IRRIDIZING COMPOUNDS  
20150 ITO  
20200 **KAOLIN:**  
20250 Calcined  
20300 Florida  
20350 Hydrous  
20400 KTP  
20450 KYANITE  
20500 LABRADORITE  
20550 LAMP BLACK  
20600 **LANTHANUM AND COMPOUNDS OF:**  
20650 Aluminate  
20700 Boride  
20750 Carbonate  
20800 Chromate  
20850 Molybdate  
20900 Oxide  
20950 Strontium Manganite  
21000 Sulfide  
21050 Titanate  
21100 Trifluoride  
21150 **LEAD:**  
21200 Monosilicate  
21250 Litharge  
21300 Red  
21350 White  
21370 **LEAD AND COMPOUNDS OF:**  
21400 Antimonate  
21450 Bisilicate  
21500 Borate  
21550 Carbonate  
21600 Chromate  
21650 Metaniobate  
21700 Metatantalate  
21750 Molybdate  
21800 Oxide  
21850 Selenide  
21900 Silicate  
21950 Silicate, Hydrous  
22000 Stannate

22050	Sulfide	26200	MICROCLINE	30250	PHOSPHIDE
22100	Telluride	26250	MICROSILICA	30300	PHOSPHORIC ACID
22150	Titanate	26300	MICROSPHERES, HOLLOW	30350	PHOSPHORS
22200	Tungstate	26350	MINIUM	30400	PIEZOELECTRIC COMPOSITIONS
22250	Zirconate	26400	MOLASSES	30450	PIGMENTS
22300	Zirconate Titanate	26450	MOLOCHITE	30500	PLACING SAND
22350	LECITHIN	26500	<b>MOLYBDATE:</b>	30550	PLASTER OF PARIS
22400	LEPIDOLITE	26550	Ammonium	30600	PLASTICIZERS
22450	LEUCITE	26600	Barium	30650	PLATINUM
22500	LIGNOSULFONATES	26650	Calcium	30700	PMN
22550	LIME	26700	Molybdate, Lead	30750	POLYACRYLAMIDE
22600	LIMESTONE	26750	Sodium	30800	POLYACRYLONITRILE
22650	LITHARGE	26800	MOLYBDENITE	30850	POLYESTER RESINS
22700	LITHIA	26850	<b>MOLYBDENUM AND COMPOUNDS OF:</b>	30900	<b>POLYETHYLENE:</b>
22750	<b>LITHIUM AND COMPOUNDS OF:</b>			30950	Glycols
22800	Aluminate	26900	Aluminide	31000	Resins
22850	Borate	26950	Borides	31050	POLYOXOMETALATES
22900	Borosilicate	27000	Carbides	31070	<b>POLYVINYL:</b>
22950	Carbonate	27050	Disilicide	31100	Acetate
23000	Citrate	27100	Disulfide	31150	Butyral
23050	Cobaltite	27150	MOLYBDIC ACID	31200	Chloride
23100	Fluoride	27200	MOLYBDIC OXIDE	31250	PORTLAND CEMENT
23150	Manganite	27250	MONTMORILLONITE	31300	POTASH
23200	Metagermanate	27300	MORPHOLINE	31320	<b>POTASSIUM AND COMPOUNDS OF:</b>
23250	Metatantalate	27350	<b>MULLITE:</b>	31350	Bichromate
23300	Niobate	27400	Mullite, Zirconia	31400	Carbonate
23350	Oxide	27450	Mullite, Zirconia Fused	31450	Chloride
23400	Salts	27500	MURIATIC ACID	31500	Dichromate
23450	Silicate	27550	NANOMATERIALS	31550	Fluoride
23500	Sulfate	27570	<b>NEODYMIUM AND COMPOUNDS OF:</b>	31600	Metatantalate
23550	Tantalate	27600	Carbonate	31650	Niobate
23600	Titanate	27650	Chloride	31700	Nitrate
23650	Zirconate	27700	Molybdate	31750	Nitrite
23700	LOW-TEMPERATURE COFIRED CERAMIC POWDERS	27750	Oxide	31800	Orthophosphate
		27800	Sulfate	31850	Permanganate
23750	LSM	27850	Titanate	31900	Silicate
23800	LUBRICANTS	27900	NEPHELINE	31950	Silicofluoride
23850	LUSTERS	27950	NEPHELINE SYENITE	32000	Titanate, Fibrous
23900	LUTETIUM OXIDE	28000	NEUTRALIZERS	32050	POWDER BLUE
23950	MAGNESIA ALUMINA	28020	<b>NICKEL AND COMPOUNDS OF:</b>	32100	POWDERED METALS
24000	MAGNESIA CHROME	28050	Acetate	32150	POWDERS, AIR PLASMA SPRAY
24050	MAGNESITE	28100	Aluminate	32200	PRASEODYMIUM OXALATE
24100	Dead Burned	28150	Aluminide	32250	PRASEODYMIUM OXIDE
24120	<b>MAGNESIUM AND COMPOUNDS OF:</b>	28170	Bonded Titanium Carbide	32300	PRECURSORS, CERAMIC
24150	Aluminate	28200	Borides	32350	PREPARED CERAMIC BODY
24200	Aluminium Silicate	28250	Carbonate	32400	PUMICE
24250	Carbonate	28300	Nitrate	32450	PUMICITE
24300	Chromite	28350	Nitride	32500	PYRITE
24350	Dioxide	28400	Oxides	32550	PYROLUSITE
24400	(Di) Titanate	28450	Stannate	32600	PYROLYTIC GRAPHITE
24450	Ferrite	28500	Sulfates	32650	PYROPHYLLITE
24500	Fluoride	28570	<b>NIObIUM AND COMPOUNDS OF:</b>	32700	PZT
24550	Nitride	28600	Beryllides	32750	QUARTZ
24600	Oxide	28650	Boride	32800	QUICKLIME
24650	Phosphate	28700	Carbide	32850	RARE EARTHS
24700	Phosphate Mono Basic	28750	Chloride	32900	REFRACTORY OXIDES
24750	Silicate	28800	Ethoxide	32950	RESINS
24800	Silicide	28850	Hydrate	33000	RETARDERS
24850	Stearate	28900	Nitride	33050	RHODIUM SESQUIOXIDE
24900	Stannate	28950	Oxalate	33100	ROUGE
24950	Sulfate	29000	Oxide	33150	RUBIDIUM
25000	Zirconate	29050	Pentoxide	33200	RUTILE
25050	Zirconium Silicate	29100	Silicide	33250	RYOLEX
25100	MAGNETITE	29150	NITER	33300	SAGGERS CLAY
25150	MALACHITE GREEN	29200	NITRIC ACID	33350	SAL SODA
25200	<b>MAGANESE AND COMPOUNDS OF:</b>	29250	NITRIDES	33400	SALT CAKE
25250	Acetate	29300	NITROGEN	33450	SALTPETER
25300	Arsenide	29350	NITROPARAFFINS	33500	SAMARIUM OXIDE
25350	Chloride	29400	OCHRE	33550	SAND
25400	Dioxide	29450	OCTYL ALCOHOL	33600	SAWDUST
25450	Oxide	29500	OLIGOCLASE	33650	SCANDIUM CARBIDE
25500	Pyrophosphate	29550	OLIVINE	33700	SCANDIUM NITRIDE
25550	Sesquioxide	29600	OPACIFIERS	33750	<b>SCANDIUM OXIDE:</b>
25600	Silicate	29650	ORGANOMETALLICS	33800	High-Purity
25650	Silicide	29700	ORGANOSOLS	33850	SHEELITE
25700	MELAMINE FORMALDEHYDE	29750	ORTHOCLASE	33900	SEALS
25750	MERTHIOLATE	29800	OXYGEN	33950	SELENIUM
25800	METAL POWDERS	29850	PASTES	34000	SEMICONDUCTOR MATERIALS
25850	METALLIC SALTS	29900	PEARL ASH	34050	SENSITIZING COMPOUNDS
25900	METALLIC SOAPS	29950	PERICLASE	34100	SERICITE
25950	METALLIZING	30000	PEROVSKITES	34150	SIALON
26000	METHALLYL ACETATE	30050	PETALITE	34200	SIDERITE
26050	METHYL CELLULOSE	30100	PHLOGOPITE	34250	SILANE COUPLING AGENT
26100	<b>MICA:</b>	30150	PHOSPHATES	34300	<b>SILICA:</b>
26150	Glass-Bonded	30200	PHOSPHATE SLAG	34350	Colloidal

34400 Fumed  
34450 Fused  
34500 High-Purity  
34550 Microcrystalline  
34600 SILICA COATED ALUMINUM NITRIDE  
34650 **SILICA GEL:**  
34700 Amorphous  
34750 SILICATE  
34800 SILICATE OF SODA  
34850 **SILICON:**  
34900 Polycrystalline  
34950 SILICON ALKOXIDE  
35000 **SILICON CARBIDE:**  
35050 Pre-Ceramic Polymers  
35100 Semiconductor Grade  
35200 CVD Precursors  
35220 Fiber  
35250 Fibers  
35300 Forming Polymers  
35350 Platelets  
35400 Whiskers  
35450 SILICON METAL POWDER  
35500 **SILICON NITRIDE:**  
35550 Whiskers  
35600 SILICON OXYCARBIDE PRECURSORS  
35650 SILICON OXYNITRIDE  
35700 SILICON TETRACHLORIDE  
35750 SILICONES  
35800 SILLIMANITE  
35850 SILVER-ANTIMONY TELLURIDE  
35900 **SILVER AND COMPOUNDS OF:**  
35950 Carbonate  
36000 Chloride  
36050 Nitrate  
36100 Oxide  
36150 SIZING AGENTS  
36200 SLAG  
36250 SLIP CLAY  
36300 SLIP STAIN  
36350 SMALT  
36400 SODA  
36450 SODA ASH  
36470 **SODIUM AND COMPOUNDS OF:**  
36500 Aluminate  
36550 Antimonate  
36600 Benzoate  
36650 Bicarbonate  
36700 Bichromate  
36750 Bifluoride  
36800 Carbonate  
36850 Carboxymethylcellulose  
36900 Chloride  
36950 Chromate  
37000 Cyanide  
37050 Diuranate  
37100 Fluoride  
37150 Lithium Niobate  
37200 Metagermanate  
37250 Metasilicate  
37300 Metatantalate  
37350 Nitrate  
37400 Nitrite  
37450 Oxide  
37500 Phosphate  
37550 Polyacrylate  
37600 Pyrophosphate, Tetra  
37650 Selenite  
37700 Sesquicarbonate  
37750 Silicate  
37800 Silicofluoride  
37850 Sulfate  
37900 Sulfide  
37950 Sulfinite  
38000 Tetraphosphate  
38050 Uranate  
38100 Uranyl Carbonate  
38150 Zirconium Phosphate  
38200 Zirconium Silicate  
38250 SOL-GEL POWDERS  
38300 **SOLDER:**  
38350 Hard  
38400 Soft  
38450 SOLID OXIDE FUEL CELL MATERIALS  
38500 SOLVENTS  
38550 SPINEL

38600 SPODUMENE  
38650 SQUEEGEE OIL  
38700 STAINS  
38750 STANNATES  
38800 STANNIC CHLORIDE  
38850 STANNIC OXIDE  
38900 STANNOUS CHLORIDE  
38950 STANNOUS OXIDE  
39000 STARCH  
39050 STEARATES  
39100 STEARIC ACID  
39150 STEATITE  
39170 **STRONTIUM AND COMPOUNDS OF:**  
39200 Aluminate  
39250 Carbide  
39300 Carbonate  
39350 Ferrite  
39400 Fluoride  
39450 Hexaboride  
39500 Nitrate  
39550 Oxide  
39600 Silicate  
39650 Stannate  
39700 Sulfate  
39750 Titanate  
39800 Zirconate  
39850 SULFIDE  
39900 SULFONATED OILS  
39950 SULFUR  
40000 SULFURIC ACID  
40050 SUPERABRASIVES  
40100 SUPERCONDUCTORS  
40150 SURFACTANTS  
40200 TALC  
40250 TANNIC ACID  
40270 **TANTALUM AND COMPOUNDS OF:**  
40300 Beryllides  
40320 Carbide Fiber  
40350 Carbides  
40400 Chloride  
40450 Diboride  
40500 Ethoxide  
40550 Nitride  
40600 Oxide  
40650 Silicides  
40700 TAPES, CERAMIC  
40750 TAR  
40800 TELLURIUM  
40850 TERBIUM OXIDE  
40900 TERRA ALBA  
40950 TERRA SIGILLATTA  
41000 TETRAETHYL ORTHOSILICATE  
41050 TETRASODIUM PYROPHOSPHATE  
41100 THALLIUM CALCIUM BARIUM COPPER OXIDE  
41150 THALLIUM OXIDE  
41200 THERMAL BARRIER MATERIALS  
41250 THERMOPLASTICS  
41300 THICKENER  
41320 **THORIUM AND COMPOUNDS OF:**  
41350 Boride  
41400 Carbides  
41450 Nitride  
41500 Oxide  
41550 Sulfides  
41600 THULIUM OXIDE  
41650 TIN OXIDE  
41700 TIN TETRACHLORIDE  
41750 TITANATE CERAMICS  
41770 **TITANIUM AND COMPOUNDS OF:**  
41800 Boride  
41850 Carbide  
41900 Diboride  
41920 Diboride Fiber  
41950 Dioxide  
42000 Dioxide High-Purity  
42050 Dioxide Ultrafine  
42100 Fluoride  
42150 Nitride  
42200 Nitride Whiskers  
42250 Silicide  
42300 TOPAZ  
42350 TRICALCIUM PHOSPHATE  
42400 TRICHLOROETHYLENE

42420 **TUNGSTEN AND COMPOUNDS OF:**  
42450 Boride  
42470 Carbide Fiber  
42500 Carbides  
42550 Oxide  
42600 Silicide  
42650 ULEXITE  
42700 UMBER  
42750 UNDERGLAZE COLORS  
42800 **URANIUM AND COMPOUNDS OF:**  
42850 Carbide  
42900 Dioxide  
42950 Nitride  
43000 URANYL SODIUM CARBONATE  
43050 UREA  
43070 **VANADIUM AND COMPOUNDS OF:**  
43100 Boride  
43150 Carbide  
43200 Nitride  
43250 Oxide  
43300 Pentoxide  
43350 Silicides  
43400 Trioxide  
43450 VEGETABLE OILS  
43500 VERMICULITE  
43550 VOLCANIC ASH  
43600 WATER GLASS  
43650 WAXES  
43700 WETTING AGENTS  
43750 WHITING  
43800 WOLLASTONITE  
43850 WONDERSTONE  
43900 Y-TZP  
43950 YBCO  
44000 YTTERBIUM OXIDE  
44050 YTTRIA TETRAGONAL  
44100 YTTRIUM CHLORIDE  
44150 YTTRIUM NITRATE  
44200 YTTRIUM OXIDE  
44250 ZAFFRE  
44300 ZEOLITE  
44320 **ZINC AND COMPOUNDS OF:**  
44350 Aluminate  
44400 Antimonide  
44450 Ferrite  
44500 Molybdate  
44550 Oxide  
44600 Phosphate  
44650 Selenide  
44700 Selenite  
44750 Silicate  
44800 Stearate  
44850 Sulfate  
44900 Sulfide  
44950 Telluride  
45000 Titanate  
45050 Zirconium Silicate  
45100 ZIRCON  
45200 ZIRCONATES  
45250 **ZIRCONIA:**  
45300 Alumina  
45350 Engineering-Grade  
45400 Hydroxide  
45450 Mullite  
45500 Mullite (Fused)  
45550 Partially Stabilized  
45600 Polycrystal  
45650 Refractory-Grade  
45670 **ZIRCONIUM AND COMPOUNDS OF:**  
45700 Beryllides  
45750 Carbide  
45800 Carbonate  
45850 Diboride  
45900 Nitride  
45950 Oxide  
46000 Oxychloride  
46050 Silicate  
46100 Silicide  
46150 Spinel  
46200 Tungstate  
46230 ZIRCONYL PHOSPHATE  
46250 ZIRCONYL PHOSPHATE OR ZIRCONIUM PHOSPHATE  
46300 ZTA