

CERAMIC INDUSTRY

The Exclusive Global Voice of Ceramic
& Glass Business and Manufacturing

2007 CERAMIC COMPONENTS DIRECTORY Product Locator Codes

- Record your ceramic components selections using the headings and code numbers below, referring to page 2 on the enclosed order form for additional information.
- If your ceramic component is not listed, please contact Susan Sutton, editor-in-chief, at (330) 336-4098 or suttons@bnpmmedia.com.
- New product headings for the 2007 edition appear in boldface type.

00100 Acceleration Sensors	02400 Bushings, Shoulder
00150 Acoustical Products	02450 Bushings, Transformer
00200 Actuators	02550 Cam Rollers
00250 Aggregate, Insulating	02600 Capacitors
00300 Air Bag Control Substrates	02625 Capacitors, High Energy Density
00350 Airfoils	02650 Capacitors, High-Voltage
00400 Alumina Components	02700 Capacitors, Radio Frequency
00450 Aluminum Nitride Components	02750 Carbide Components
00500 Aluminum Oxide Components	02800 Carbon Components
00550 Anodes	02850 Cartridges
00600 Antenna Strain Insulators	02900 Castings, Refractory
00650 Antennas	02950 Castings, Wear Resistant
00700 Antennas, Chip Dielectric	03000 Catalysts
00750 Antennas, Chip Multilayer	03050 Catalytic Combustors
00800 Antennas, Dielectric	03100 Catalytic Converters
00850 Arches, Furnace Suspended	03150 Cathode Assemblies
00860 Attenuators	03200 Cathode Assemblies, Hollow
00875 Automotive Components	03250 Cathode Assemblies, Value-Added
00900 Backwalls, Suspended	03300 Cathodes
01000 Ball and Seat Check Valves	03350 Cathodes, Dispenser
01050 Ball and Seat Check Valve Assemblies	03400 Cellular Telephone Resonator Cavity Standoffs
01100 Ball and Socket Beads	03425 Ceramic Armor
01150 Ball Valve Components	03450 Ceramic Fiber Products
01175 Balls	03475 Ceramic Media
01200 Baluns	03500 Ceramic Plates
01250 Baluns, Chip Multilayer	03550 Ceramic Preforms
01300 Beads	03575 Ceramics, Castable
01350 Beads, Fishspine	03600 Ceramics, High Temperature
01375 Bearing Components	03650 Ceramics, Machinable
01400 Bearings	03700 Cermet Components
01425 Bell Jar	03750 Chamber Domes
01450 Belts	03800 Chip Coils
01460 Beryllia Components	03850 Chip Ferrite Beads
01470 Bioceramics, Dental	03900 Chucks
01480 Bioceramics, Medical	03950 Circulators
01500 Blanks	04000 Clamp Rings
01550 Bolts	04050 Coaxial Connectors
01600 Boride Components	04100 Coaxial Connectors, Microwave
01650 Boron Carbide Components	04150 Composite Panels
01700 Boron Nitride Components	04200 Composites, Carbon-Carbon
01750 Brick, Acid Resisting	04250 Composites, Ceramic-Ceramic
01800 Brick, Basic	04300 Composites, Ceramic Matrix
01850 Brick, Fireclay	04350 Composites, Ceramic Matrix, Continuous Fiber Reinforced
01900 Brick, High Alumina	04360 Composites, Ceramic Matrix, Discontinuous Whisker Reinforced
01950 Brick, Load-Bearing	04370 Composites, Ceramic Matrix, Whisker Reinforced
02000 Brick Shapes	04400 Composites, Ceramic-Metal
02050 Brick, Silica	04450 Composites, Intermetallic
02225 Burner Barrel Liners	04500 Computer Tape Guides
02250 Bushings	
02300 Bushings, Condenser	
02350 Bushings, Cup	

04550 Conductors
04600 Control Components, Hydraulic
04650 Control Components, Pneumatic
04700 Controlled Resistivity Components
04750 Conveyor Tiles
04775 Cordierite Components
04800 Cover Plates
04850 Crucible Liners, Disposable
04900 Crucibles
04950 Crucibles, Assay
04975 Crucibles, Fused Silica
05000 Crucibles, Quartz
05050 Crucibles, Refractory
05100 Crystals
05150 Custom Components
05200 Cutters and Knives
05250 Cutting Bits
05300 Cutting Tool Blanks
05350 Cutting Tools
05400 Cylinder Liner Preforms
05450 Cylinders
05500 Cylindrical Components, Custom
05550 Dead-Burned Refractory Components
05600 Delay Lines, Chip Multilayer
05650 Dental Components
05700 Dewatering Foils
05750 Dielectric Resonators
05800 Dielectrics
05850 Dies
05900 Diesel Engine Exhaust Valves
05950 Diffusion Furnace Components
06000 Diodes
06050 Diode Switches
06100 Directional Couplers
06150 Directional Couplers, Chip Multilayer
06200 Discriminators
06250 Discs
06300 Discs, Valve
06350 Dividers, Chip Multilayer
06400 Door Gaskets
06450 Door Seals
06500 Dummy Semiconductor Wafers
06550 Duplexers
06600 Electric Fuel Pump Components
06650 Electrical Insulation
06700 Electrical Porcelain Insulators
06725 Electroconductive Components
06750 Electrode Collars
06800 Electrodes
06825 Electrodischarged Machinable (EDM) Components
06850 Electronic Circuitry Substrates
06900 EMI Filters
06950 End Effectors
07000 Engine Components
07025 Epitaxial System
07050 Erosion Sleeves
07075 Evaporation Boats
07100 Exhaust Gas Damper Seats
07200 Fasteners
07250 Ferrite Cores
07300 Ferrites & Ferromagnetics
07315 Fiber Optic Ferrules

07335 Fiber Optic Sleeves
07350 Fiber Optic Splicers
07400 Filters
07425 Filters, Ceramic Reticulated Foam
07450 Filters, Dielectric
07500 Fixtures, Graphite
07550 Floor Brick, Kiln
07600 Flue Liners
07650 Fluid Meter Components
07700 Forming Dies
07750 Forming Dies, Aluminum
07800 Forsterite Components
07850 Foundry Specialties
07900 Fuel Cell Components
07950 Fuel Pump Rollers
08000 Furnace Collars
08050 Furnace Components
08100 Furnace Discs
08150 Furnace Pipe Hangers
08200 Furnace Rolls
08250 Fused Cast Refractory Components
08300 Fused Silica Brick
08350 Fused Silica Components
08400 Fused Silica Tools
08450 Gas Distribution Plates
08500 Gas Turbine Combustor Liners
08550 Gas Turbine Combustor Shrouds
08600 Gauge Blocks
08650 Gauges
08700 Glass-Ceramic Components
08750 Graphite Components
08800 Grinding Media
08850 Halogen Light Contact Systems
08900 Hearth Plates
08950 Heat Exchangers
09000 Heating Elements
09050 Heat Shielding Components
09100 Heat Sinks
09150 Heat Treating Furnace Fans
09200 High Temperature Ceramics
09250 High Temperature Fixturing Components
09300 High Temperature Tubing
09350 High Voltage Components
09400 Hollow Pair Lead-Ins
09450 Honeycombs
09500 Hybrid Circuits
09550 IC Packages
09600 Ignition Components
09650 Inductors
09700 Inductors, Choke
09750 Industrial Components
09760 Ingots
09770 Ingots, Electron Beam Physical Vapor Deposition (EBPVD)
09780 Injection Molding
09800 Insulation, Furnace
09850 Insulation, Microporous
09900 Insulators
09950 Insulators, Band Heater
10000 Integrated Passive Components
10050 Ion Chamber Envelopes
10100 Isolators
10150 Kiln Furniture

10175 Kiln Shelves
10200 Kiln Support Beams
10250 Kiln Tiles
10300 Labware
10350 Labware, Chemical Resistant
10375 Labware, Fused Quartz
10400 Lamp Bases
10450 Lapping Plates
10500 Laser Cavity Reflectors
10550 Laser Components
10600 Laser Wave Guides
10650 Lift Pins
10660 Lighting Components
10670 Light-Reflecting Components
10700 Linings
10750 Linings, Abrasion-Resistant
10800 Linings, Furnace
10850 Linings, Protective
11000 Liquid Level Sensor Components
11025 Low-Temperature Cofired Ceramic (LTCC) Components
11050 Low Voltage Components
11100 Machinable Ceramic
11150 Machinable Glass Ceramic
11200 Magnesia Partially Stabilized Zirconia Components
11250 Magnesite Components
11300 Magnets
11350 Magnets, Hard
11400 Magnets, Rare Earth
11450 Magnets, Samarium Cobalt
11500 Magnets, Soft
11550 Mechanical Pump Seals
11600 Medical Components
11650 Membranes
11700 Metal Forming Rolls
11750 Metal Matrix Composites
11800 Meter Bearings
11850 Mica Components
11900 Microchip Capacitors
11950 Microchip Capacitors, High Frequency
12000 Microporous Insulation
12050 Microwave Absorbers
12100 Microwave Components
12150 Mill Lining Brick
12200 Monofilament Sleeving
12250 Monofilament Wraps
12300 Monolithic Components
12350 Muffles, Refractory
12400 Mullite Components
12450 Nitride Components
12500 Noise Suppression Components
12550 Nozzle Assemblies
12600 Nozzle Components
12650 Nozzles
12700 Nuclear Waste Containers
12750 Nuts
12800 Open-Celled Foam Components
12850 Orifices
12900 Orthodontic Brackets
12950 Orthodontic Components
13000 Oxide Products
13050 Paper Processing Elements

13100 Particulate Composites
13150 Pellets
13200 Perlite Brick and Block Insulation
13250 Photovoltaic Casting Crucibles
13300 Piezoelectric Actuators
13350 Piezoelectric Knock Sensors
13400 Piezoelectrics
13450 Piezoelectric Sound Components
13500 Pinions
13550 Pipe, Ceramic-Lined
13600 Pipe Insulation
13650 Pipe, Microtunneling
13700 Pipe, Slip-Lining
13750 Pipe Wrap
13800 Pistons
13850 Pitch-Bonded Refractory Components
13900 Pivots
13950 Plates
14000 Plates, Element
14050 Plates, Pusher
14100 Plungers
14350 Porous Ceramics
14400 Porous Plates & Tubes
14450 Posts
14500 Pouring Cups
14550 Power Tubes
14600 Pressure Transducer Components
14610 Process Crucibles
14630 Proppants
14640 Proppants, Sintered Bauxite
14650 Pucks, Rings and Assemblies
14700 Pump Components
14750 Pyroelectrics
14800 Pyrometric Cones
14850 Pyrometric Devices
14900 Radio Frequency/Microwave Windows
14950 Radomes
15000 Rare Earth Magnets
15050 Rectifier Housings
15100 Rectifiers
15150 Recuperators
15250 Refractories
15300 Refractories, Alumina
15350 Refractories, Basic
15400 Refractories, Cordierite
15450 Refractories, Forehearth
15500 Refractories, Glass House
15550 Refractories, Glass Plant
15600 Refractories, High Alumina
15650 Refractories, Honeycomb
15700 Refractories, Insulating
15750 Refractories, Insulating Firebrick
15800 Refractories, Mullite
15850 Refractories, Preformed
15900 Refractories, Reinforcement
15950 Refractories, Silica
16000 Refractories, Silicon Carbide
16050 Refractories, Zircon
16100 Refractories, Zirconia
16125 Refractory Shapes
16150 Reinforcements
16200 Reinforcements, Fiber
16250 Reinforcements, Particulate/Platelet

16300 Reinforcements, Whisker
16350 Resistor Carriers for Electronic Assemblies
16400 Resistors, Solid-State
16450 Resistors, Thick-Film
16500 Resonators
16550 Resonators, Coaxial
16600 Resonators, Puck
16650 Rings
16700 Riser Tubes
16750 Rocket Launch System Insulation
16800 Rocket Thrust Chambers
16850 Rods
16900 Rollers
16950 Saggars
17000 Sample Holders
17050 Sand Blast Nozzle Liners
17100 Screen Tiles
17200 Seal Faces
17225 Sealing Plates, Graphite
17250 Seal Rings, Rotating
17300 Seals
17350 Seals, Ceramic-to-Metal
17400 Seats
17450 Semiconductors
17500 Semiconductor Wafer Carriers
17550 Semiconductor Wafer Contact Pins
17600 Semiconductor Wafer End Effectors
17650 Semiconductor Wafer Handler Arms
17700 Semiconductor Wafer Polishing Blocks
17725 Semiconductor Wafer Rack
17750 Sensors
17800 Sensors, Piezoelectric
17825 Sensors, Ultrasonic
17850 Sensors/Sensor Modules, Pyroelectric Infrared
17900 Setters
17950 Setters, Ware
18000 Shafts
18050 Shelves
18075 Shelves, Kiln
18100 Sialons
18150 Silicide Components
18200 Silicon Carbide Components
18250 Silicon Carbide Foam Shapes
18300 Silicon Carbide Specialty Shapes
18350 Silicon Nitride Components
18375 Single Crystal Lead Magnesium Niobate/Leat Titanate (PMN-PT)
18400 Sleds
18450 Sleeves
18465 Solar Cells
18475 Solar Cells, Silicon
18500 Solid Oxide Fuel Cell Components
18550 Spacers
18600 Spark Plug Boot Insulators
18650 Spark Plugs
18700 Spark Shields
18750 Spheres, Ceramic
18800 Sputtering Targets
18850 Standoff Insulators, Heavy-Duty
18900 Standoff Insulators, Light-Duty
18950 Steatite Components
18975 Stones, Baking
19000 Strainer Cores

19050 Substrates, Alumina
19100 Substrates, Aluminum Nitride
19150 Substrates, Boron Carbide
19200 Substrates, Silicon Carbide
19250 Superconductor Devices
19300 Superconductor Wires
19350 Superconductors, Microwave
19400 Super Duty Refractory Brick
19450 Super Tweeter Drivers
19500 Susceptors
19550 Suspension Insulators
19600 Suspension Insulators, Heavy-Duty
19650 Tank Blocks
19700 Tank Linings, Ceramic
19750 Tape, Insulating
19800 Tapes
19850 Tar-Bonded Refractory Components
19870 Targets
19900 Textile Guides
19950 Textile Presser Feet
20000 Textile Feed Dogs
20050 Thermal Barriers
20100 Thermal Cores
20150 Thermal Insulation
20200 Thermal Protection Components
20250 Thermistors
20300 Thermistors, NTC
20350 Thermistors, PTC
20400 Thermocouple Protection Tubes
20450 Thick Film Heaters
20500 Thread Guides
20525 Tiles
20550 Tile Setters
20650 Titanium Diboride Components
20700 Tongue-and-Groove Shapes
20725 Tools, Hot Glass
20750 Transducers
20760 Transducers, Piezoelectric
20770 Transducers, Ultrasonic
20800 Transfer Ladles
20850 Transformers
20900 Traps
20950 Tube Mill Rolls
21000 Tubes
21050 Tubes, Lamp
21100 Tubes, Plasma
21150 Tubes, Power
21200 Tubes, Pyrometer Protection
21250 Tubes, Radiant
21300 Tubes, Refractory
21350 Tubes, Tile Setter
21400 Tube Seals
21450 Tube Sheet Boiler Ferrules
21500 Tubing, Nuclear
21550 Tubing, Thin-Wall
21600 Tundishes
21650 Ultrasonic Components
21700 Vacuum Chucks
21750 Valve Seats
21800 Valve Shims
21850 Valve Stems
21900 Valves, Chemical
21950 Valves, Medical

22000 Varistors
22050 Vermiculite Brick and Block Insulation
22100 Wafers, Diffusion Source; Boron Nitride
22150 Ware Trays
22200 Washers
22250 Water Filtration Components
22300 Wear Pads
22350 Wear Plates
22400 Wear Resistant Components
22450 Weld Location Pins
22500 Wire Nuts
22525 Xenon Light Switching Spark Gaps
22550 Yttria-Stabilized Zirconia Components
22600 Yttrium Oxide Components
22650 YTZP Blanks
22750 Zirconia Components
22800 Zirconia Oxide Components
22850 Zirconia-Toughened Alumina Components

PROFESSIONAL SERVICES CATEGORIES

22950 Advanced Ceramics Services
23000 Aluminum Oxide Machining
23050 Assembly
23100 Assembly, Clean-Room
23125 Bonding
23150 Boron Nitride Machining
23250 Brazing
23300 Calibration Services
23400 Cleaning/Surface Preparation
23450 CNC Milling
23500 CNC Swiss Screw Machining
23550 CNC Turning
23600 Coating Services
23650 Consultants
23700 Contractual Services
23750 Curing Services
23800 Design Services
23850 Die Cutting
23900 Education
23950 Engineering Services, Custom Fabrication
24000 Environmental Services
24050 Feasibility Studies
24100 Fixturing
24125 Formulation Development, Ceramic Coatings
24150 Grindability Testing
24200 Grinding
24250 Grinding, Centerless
24300 Grinding, Custom
24350 Grinding, Cylindrical
24400 Grinding, Fine
24450 Heat Treating
24500 Honing
24550 Honing, Flat
24600 Inspection Services
24650 Laboratory Testing
24700 Lapping
24725 Lapping and Polishing
24750 Lapping, Flat
24800 Lapping, Production
24900 Laser Cutting
24950 Laser Drilling
25000 Laser Engraving
25050 Laser Machining

25100 Laser Marking
25150 Laser Micromachining
25200 Laser Scribing
25250 Laser Welding
25300 Lasering Services
25350 Lead/Cadmium Testing
25400 Legal Services, Patents & Trademarks
25450 Machining
25500 Market Research
25550 Masking
25600 Materials Analysis
25650 Metallization
25700 Plasma Surface Treatment
25750 Plating
25800 Prototyping
25850 Rapid Prototyping
25900 Recycling Services
25950 Research and Development
26000 Roller Repair
26050 Scoring
26100 Sealing
26150 Sealing, Ceramic to Metal
26175 Silicon Carbide Machining
26200 Silicon Nitride Machining
26250 Stamping
26300 Standards for Materials
26350 Tape Casting
26400 Technology Transfer & Licensing
26450 Testing
26500 Tooling
26550 Tube Grinding
26600 Tube Polishing
26650 Tumble Coating
26700 Ultrasonic Machining
26750 Warehouse Services
26800 Water/Wastewater Analysis
26850 Wearproofing
26900 Wearproofing, Tungsten Carbide
26950 Website Services