

We are a state-of-the-art facility that manufactures industrial, technical, advanced ceramics of high purity materials like Alumina, Zirconia and others. Our products are fired at 1600°C and achieve a hardness of 9 Mohs scale, putting them just below Diamonds in toughness.

We provide an extremely wide range of products: Recrystallized Alumina ceramics, High Alumina wear resistant ceramic parts, Ceramic ferrules for boilers, Ceramic seal faces, Alumina chemical seals, Alumina ceramic sleeves, Wire Drawing rings, cones & pulleys, Ceramic Igniters, Ceramic thread guides, Zirconia ceramics, Alumina ceramic rings, tubes, rods, crucibles, nozzles, Sintered Silicon Carbide and many more.

We use the most modern production equipment's like PLC Presses (for best dimensional accuracy), Extruders, Injection Molding machines, ISO-Static Presses, Microprocessor controlled high temperature kilns, and Grinding, Lapping and Polishing machines We also use rigorous quality testing equipment to provide products that can withstand abrasion, erosion, corrosion, thermal and electrical insulation in demanding applications

Range of Products :

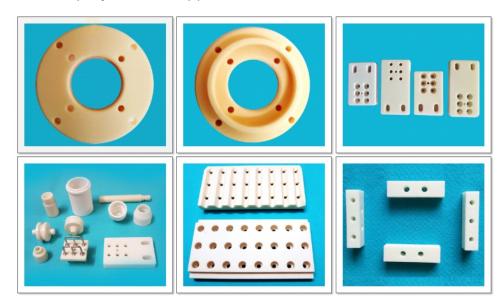
- Recrystallized Alumina Ceramics
- Alumina Ceramics Wear Resistant
- Ceramic Ferrules for Boilers
- Alumina Seal Faces and Sleeves
- Ceramic Wire Drawing Parts

- Ceramic Igniters
- Ceramic Thread Guides
- Zirconia Ceramics
- Sintered Alpha Silicon Carbide



• Recrystallized Alumina Ceramics :

Recrystallized Alumina Ceramics are used where very high electrical insulation is required. Our recrystallized alumina ceramics are manufactured using very high purity alumina. They have a distinct Ivory colour. They are manufactured as per customer drawing. Recrystallized Alumina Hitech ceramic products / parts are an ideal choice for Vacuum, Semiconductor, Hydrocyclones Labwares, Spray Nozzles applications.



• Alumina Ceramics Wear Resistant :

High Alumina ceramics are used for various industrial applications., where high wear resistance, high abrasion and corrosion resistance required. Also they can be used in high temperatures, if there is no thermal shock involved. They are manufactured as per customer drawing. High Alumina Hitech ceramic products / parts are an ideal choice for Vacuum, Semiconductor, Hydrocyclones, Labwares Spray Nozzles applications.



• Ceramic Ferrules for Boilers :

Ceramic Ferrules are used at the inlet of the Shell & Tube type heat exchanger to protect the tube inlets from hot gas corrosion and abrasive particle erosion. Techno Cera Ferrules are manufactured using 98% High Alumina. These ferrules exhibit excellent mechanical wear resistance, corrosion resistance and thermal resistance properties. They are manufactured in various sizes & shapes as per customer requirements.



• Alumina Seal Faces and Sleeves :

Ceramic is commonly used as a mating ring together with carbon-graphite opposite seal face in mechanical seal kits which in turn used in chemical pump applications. Since Alumina exhibit high hardness, good abrasion resistance & good resistance to acid and mild alkaline solutions. This makes them suitable choice for chemical seal faces. Our seals are lapped within 20 micron Parallelism, polished to surface finish Less than 0.3 microns and flatness within 2 light bands.



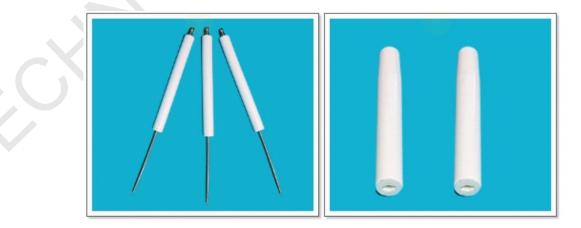
• Ceramics Wire Drawing Parts :

Ceramic wire drawing cones, rings & guides are commonly used for drawing and production of non-ferrous wires in the wire and cable industries. As Zirconia/Alumina exhibit high toughness, high hardness, good abrasion and corrosion resistance, this makes them ideal choice material for wire drawing applications. Techno Cera wire drawing cones, rings & guides are manufactured in various shapes and sizes & ground to precise dimensions as per customer requirements



• Ceramic Igniters :

Igniters are commonly used for lighting the burners of industrial and domestic boilers, hot air generators, etc. Alumina is used as insulating material to withstand high voltage required to generate spark and high operating temperature up to 1400DC near the burners. Techno Cera Igniters are manufactured in various sizes and standard designs like clamped, threaded, etc. The electrodes are made from special Nickel / Magnesium alloy to withstand temperature up to 1400DC



• Ceramics Thread Guides :

Ceramic thread grades are used in textile machineries to guide, to change direction, to twist, to control tension of textile yarns. Since Titania and Alumina exhibit high hardness, good abrasion and corrosion resistance, fine grain structure, yarn friendly surface finish, this makes them ideal choice material for textile thread guides. Techno Cera thread guides are manufactured in various shapes and sizes & various surface finish like tumbled finish, matt finish and high polished finish.



• Zirconia Ceramics :

Zirconia ceramics exhibit high toughness, high hardness, good abrasion and corrosion resistance, This makes them ideal choice material for wire drawing applications. They are made as per customer requirements.



• Sintered Alpha Silicon Carbide :

Sintered Alpha Slicon Carbide used in sliding contact applications like mechanical seal faces, product lubricated bearings, spray and blasting nozzles, heat exchangers, chemical plants etc. Due to their high thermal conductivity, low thermal expansion co-efficient, good thermal shock resistance, very high hardness, very high corrossion/erosion resistance, low frictional properties, thery are ideal choice for these applications. They are manufactured in various shapes and sizes as per customer requirements.



• Technical Specifications •

Description	Unit	Alumina 99.5/99.7/99.8	Alumina 98 /99	Alumina 95/96	Alumina 90	Magnesia/Yttria Stabilized Zirconia	Sintered Silicon Carbide
Density	gm/cc	3.85+/-0.05	3.80 ± 0.05	3.70 ± 0.05	3.50 ± 0.05	5.75 ± 0.05	3.1+/-0.05
Porosity	%	Nil	Nil	Nil	Nil	Nil	Nil
Alumina Content	%	99.5	98	95	90		
Zirconia Content	%					90-95	
SIC Content	%						100
Tensile Strength	kpsi	36 ± 3k	32 ± 3	25 ± 3	24 ± 3	25 ± 3	50+/-4
Compressive Strength	kpsi	360 ± 10	325 ± 10	300 ± 10	280 ± 10	300 ± 10	380+/-10
Transverse Breaking Strength	kpsi	50 ± 4	48 ± 4	48 ± 4	46 ± 4	85 ± 2	55+/-4
Hardness	Vickers HV1	2000	1900	1800	1600	1700	2600
Surface Finish on lapped face	Micron	Less than 0.3	Less than 0.3	Less than 0.3	Less than 0.3	Less than 0.3	Less than 0.3
Flatness on polished face	Light Band	Within 2	Within 2	Within 2	Within 2	Within 2	Within 2
Parallelism on lapped face	Micron	Within 20	Within 20	Within 20	Within 20	Within 20	Within 20
Colour		Ivory / White	White / Pink	White / Pink	White	Yellow/White	Black
Applications		High Dielectric Insulation, Chemical Seals, Sleeves, Crucibles, Tubes, Wire & Thread guides, Vacuum, Semiconductors, Hydrocyclones	Ceramic Ferrules	Ceramic Seal faces, Thread & Wire drawing guides, Igniters, Ferrules	Grinding Media Balls, Wear Resistant Tiles & Ball mill Liners	Wire drawing cones, rings & guides	Seal faces, Tubes, Tiles

Send your valuable enquiries to



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• Details Required for Quotation :

- Material Specifications, if any available
- Drawing with tolerances or sketch with dimensions and tolerances
- Finish required; As fired, Lapped, Polished etc
- · Application details, temperature of usage
- Fitting details. Is it OD fit or ID fit etc? Critical dimension if any
- Qty required
- Colour: White or Pink
- If possible, Photo of Product
- · Contact details: Company name, contact person, contact number
- Material of construction i.e. % of Alumina required
- Material Specifications, if any available
- Drawing with tolerances or sketch with dimensions and tolerances
- Finish required; As fired, Lapped, Polished etc
- Application details, temperature of usage
- Fitting details. Is it OD fit or ID fit etc? Critical dimension if any
- Qty required
- Colour: White or Pink
- If possible, Photo of Product
- · Contact details: Company name, contact person, contact number

• Business Details :

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