



EXPORTER & SUPPLIER OF
ALL RANGE OF
INDUSTRIAL CERAMIC
PRODUCTS



LABORATORY WARES : Pure ceramic material for analytical analysis plays vital role due to extreme high temperature, high thermal shock, high mechanical strength, high corrosion resistance, good electrical insulation properties with high purity.

MATERIAL :

- Alumina up to 99.7%
- Cordierite
- Mullite
- Zirconia

Products : Crucibles from 1 ml to 1000 ml. in Cylindrical, Conical, Rectangle, Square, Micro crucibles, lids, Dishes, Plates, Tubes, Rods, combustion Boats Muffles, Ceramic stirrers, Ignition dishes, Jar for Jar mill, Porous ceramics etc.

Kiln Furniture: :

- Recrystallized tubes
- Threaded refractory tubes
- Plates, Saggars, support tubes
- Mullite , Sic Plates , ceramic papers,
- High Temperature ceramic boards up to 1600'C.
- Refractory in Zirconia up to 2200 C application.

FURNACES :

- High temperature furnaces up to 1800 C in Box type and Tubular type.
- Single / multi zone tube furnace.
- Programmable energy saving controls
- Various atmosphere control like Vacuum, Argon, Nitrogen for brazing application.

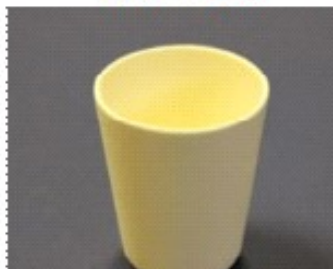
APPLICATION :

- Crucibles, boats for molten samples
- Chemical analysis
- Thermal analysis
- Firing, sintering samples
- Annealing wire, plates samples
- Research and development.

CRUCIBLES



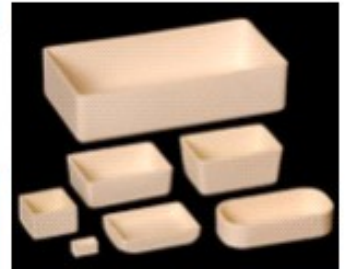
**CONICAL
CRUCIBLES**



**CYLINDRICAL
CRUCIBLE**



**RECTANGULAR &
SQUARE CRUCIBLES**



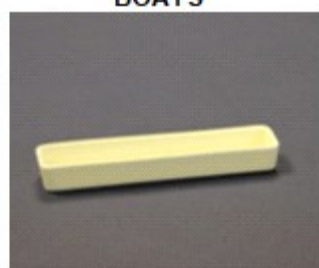
CIRCULAR DISH



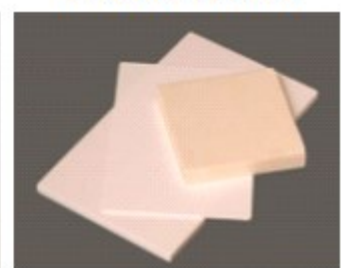
**MICRO CRUCIBLES FOR
THERMAL ANALYSIS**



**RECTANGULAR
BOATS**



CERAMIC PLATES



CERAMIC TUBES



CERAMIC RODS



FOUR BORE TUBES



FISH SPINE BEADS



CERAMIC FERRULES FOR STUD WELDING & WELDING CONSUMABLE



MATERIAL : Steatite & Cordierite

PRODUCTS :

- Ferrules for stud welding available Plain and Threaded
- Custom design can be produce
- Available in 5, 6, 8, 10, 12, 14, 16, 19, 22, 25 mm diameter
- Back plates
- Weld location pin
- Welding consumable nozzles like Argon, spot, continuous, Tip weld and custom design

Benefits of ceramic ferrules:

- Good thermal shock resistance
- Good mechanical strength
- Heat resistant & wear resistance
- Good concentricity & consistency
- Precise design & customizes product

Functions :

- Concentrates arc heat to the weld
- Keeps molten weld pool
- It forms a fillet of molten metal to continue weld zone
- Reduce charring & disruption of surrounding base metal surface
- Offers safety to operator by reducing open area.
- Welding nozzle offer protection to welder with high thermal insulation.

Thermocouple Tubes :

High temperature processes generate the demand for reliable components. Our comprehensive range of Thermocouple tubes find application in these service conditions in the industrial furnace applications upto 1800°C. They provide protection against the corrosive atmosphere and protect the thermocouple sensors against mechanical damage. These tubes are fine grained, impervious and non-porous in nature and possess the following attributes:-

- ◆ **Thermal shock resistant**
- ◆ **High temperature resistant**
- ◆ **Corrosion resistant**
- ◆ **High thermal conductivity**



The choice of thermocouple tube material depends upon the environment of its application. Depending on their properties, alumina or mullite is used where they are best suited. The mullite (silica/alumina) protection tubes have excellent thermal shock resistance and good mechanical strength characteristics. In oxidizing atmosphere, generally mullite would be a better choice. They provide a low-cost option in comparison to alumina.

Alumina crucibles offered by us is cost-effective & widely accepted owing to its versatile application usage. Our re-crystallized alumina crucibles are inert to hydrogen, carbon & refractory metals and can be used for reacting chemicals, melting corrosive liquids & metals at operating temperatures up to 1800 Deg C in both oxidizing as well as reducing atmospheres. We offer alumina crucibles & dishes ex stock in many standard shapes and sizes. Further, these can also be custom made on request.

Standard Features:

- ◆ Withstands high temperature
- ◆ Greater hardness
- ◆ Good chemical stability
- ◆ High melting point
- ◆ Withstands chemical corrosion

Other than this, Kyanite based crucibles offered by us find wide applications up to 1600 Deg C in all metallurgical based industries. These are made of high alumina refractory raw materials that offer excellent thermal shock resistance as well as mechanical strength.

Alumina Ceramic Trays and Round Discs

Alumina Trays and Round Discs & Dishes offered by us is cost-effective & widely accepted owing to its versatile application usage. Our re-crystallized alumina Trays and Round Discs and Dishes are inert to hydrogen, carbon & refractory metals and can be used for reacting chemicals, melting corrosive liquids & metals at operating temperatures up to 1800 Deg C in both oxidizing as well as reducing atmospheres. We offer alumina Trays and Round Discs & Dishes ex stock in many standard shapes and sizes. Further, these can also be custom made on request.

Standard Features:

- ◆ Withstands high temperature
- ◆ Greater hardness
- ◆ Good chemical stability
- ◆ High melting point
- ◆ Withstands chemical corrosion

Thermocouple Beads offered by us are made of pure Alumina/ Mullite compositions and are used to insulate thermocouple conductor wires inserted inside thermocouple tubes. Our insulators have good electric insulation properties even at higher temperatures (up to 1800°C) so as to provide correct reading in measuring instruments and preventing pollution of metals with silicon. The advantages of using these pure alumina thermocouple beads can be attributed to following features:

- 1) Excellent electric insulation
- 2) Resistant to corrosive and oxidizing atmosphere
- 3) Great strength and rigidity
- 4) Withstands temperature upto 1800°C
- 5) Low thermal expansion
- 6) Non toxic
- 7) Resistant to wear and tear
- 8) Great compressive strength
- 9) Stability under highly demanding conditions



As these insulators are manufactured using high purity ceramics, it allows making of thermocouples that are extremely accurate. Further, we can make available a wide range of single bore, twin bore and four bore sleeves that are available ex stock in standard sizes. Apart from these, we can also provide variations like solid round rods and multi-bore beads in custom designs and sizes on special requests.

Mullite Crucibles offered by us is cost-effective & widely accepted owing to its versatile application usage. Our mullite based crucibles are inert to hydrogen, carbon & refractory metals and can be used for reacting chemicals, melting corrosive liquids & metals at operating temperatures up to 1600 Deg C in both oxidizing as well as reducing atmospheres. We offer mullite crucibles & dishes ex stock in many standard shapes and sizes. Further, these can also be custom made on request.



Standard Features: Withstands high temperature Greater hardness Good chemical stability High melting point withstands chemical corrosion Other than this, Kyanite based crucibles offered by us find wide applications upto 1600 Deg C in all metallurgical based industries. These are made of high alumina refractory raw materials that offer excellent thermal shock resistance as well as mechanical strength.



GRINDING MEDIA : We manufacture grinding media from 4mm dia to 75mm dia in porcelain, high alumina and steatite. The media are made in both spherical and cylindrical shapes. The manufacturing's is by vacuum extrusion followed by cutting and compaction in mechanical or hydraulic presses or are hand shaped. Hands shaped balls are of higher diameter – 25 to 75mm and the balls are not uniformly spherical. Non-uniform size and shape of the ball is an additional advantage for faster and finer grinding.

FINISHING AND DEBURRING MEDIA : In today's market position, mass finishing is the means of getting high quality volume production without which it will be highly difficult to stand in today's competitive market. We reviewed the situation and has developed mass finishing polishing and deburring media of international standard to cater to the demand of today's sophisticated market. The products are in different qualities to suit different applications. The most widely used media is abrasive ceramic media for removal of burs.

What is the function of media with the tools in a vibratory machine?

The action of media to any tool in vibratory machine is to debur (Remove burs) and bring the maximum polish on the surface.

How a media deburs or polish the component in vibratory machine?

As per the law there are two functions which debur and polish the component:












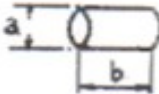








1. By out of the friction between the media and tool. (90% of deburing is done by this function).
2. By weight of media thrown on a tool during the motion of machine. (10% of deburing is done by this function)

This proves that you need media, which can really do the friction with the component in machine.

What is the role of Alumina Content in Ceramic Media?

Alumina is an ingredient in any ceramic Body which gives weight and polishing effect. It is understood in the market that the more the alumina content the more it deburs which is not correct. But the role of weight principle is only 10% in vibratory machine. I am sending you a component which has 94% Alumina in it but it can not debur more yes if you use it for polishing purpose it will give you better result.

At the end of all we need a media which has proportionate mix of more friction content and less alumina (Weight) content. Please sand us feed back of What is the use of media in your component? Is it deburing more or polishing more? If It is deburing more than you need media with friction ingredients and if it is polishing more than it should be weight ingredient more.

Shape Name	Shape	Size Available	Shape Geometry
Triangle Straight Cut		3x3 mm 5x5 mm 10x10 mm 15x15 mm 20x20 mm 25x25 mm	
Triangle Angle Cut		5x5 mm 10x10 mm 15x15 mm 20x20 mm 25x25 mm	
Star		10x10 mm 20x20 mm	
Ellipse		10x5x10 mm 15x8x15 mm 20x8x20 mm	
Cylinder		4x10 mm 7x10 mm 10x10 mm 10x20 mm	
Cylinder Angle Cut		4x10 mm 8x12 mm 10x15 mm 10x20 mm	
Tristar		10x10 mm 10x15 mm	
Pyramid		10x10 mm 15x15 mm 20x20 mm 25x25 mm	
Cone		10x10 mm 15x15 mm 20x20 mm 25x25 mm	
Balls		3 mm to 8mm	



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