



# divine

CERA WOOL INDIA LLP

We are manufacturer of

Refractory  
Ceramic Fiber  
and Allied Products



*Quality is our quantity*

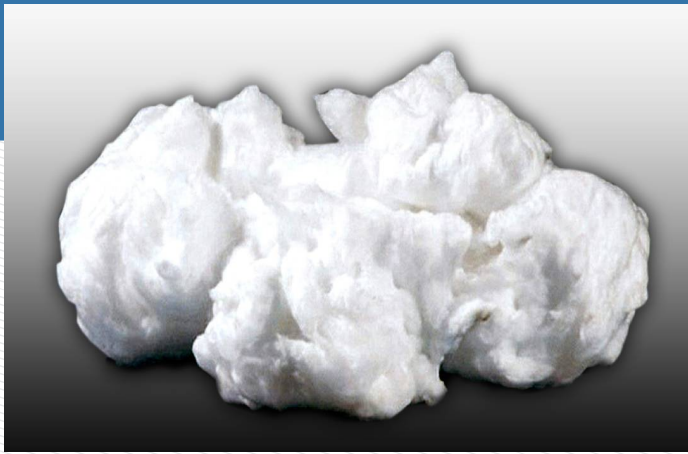
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# CERAMIC FIBER BULK



DIVINE CERA WOOL INDIA LLP has brought an excellent range of bulk fibers. Our each fiber has unique set of properties. We have a bulk fiber range that is available on the basis of different

compositions, fiber length and diameter. We are widespread across India and also provide our quality products in the international markets. The product range of Ceramic fiber bulks has strong refractory properties. This fiber consists of pure alumina, silica, and Zirconia. The bulk fibers manufactured by us have tendency to work in different temperature conditions. These products are used by various industries and manufactured according to the international standards.

The production of ceramic fiber spun bulk takes use of electric resistance furnace melting method with the characteristics of stable performance, long fiber, strong tensile strength, less shot, excellent thermal stability, clean and white color, etc. It is the optimum material for the production of fiber textile and also the perfect material for sealing, filling and insulating in high-temperature environment.

## CHARACTERISTICS

- Excellent thermal and chemical stability.
- Excellent thermal shock resistance
- Resilient up to high temperatures
- Light weight, low heat storage capacity
- Low thermal conductivity
- Asbestos free

## APPLICATIONS

- Raw material of ceramic fiber textile and ceramic fiber products e.g. blanket, paper, board
- Expansion joint seal
- Filling material of wall lining of industrial furnace.
- Raw material of wet method products
- Loose insulating fill for complex spaces and areas where access is difficult.

## Technical Index

Specifications	RT-1260°C (2300°F)	HTZ-1425°C (2600°F)
Melting Point (°C)	1780 °C	1780 °C
Maximum Use Limit (°C)	1100 °C	1350 °C
Colour	White	White
Fiber Diameter (µm) (Micron)	2.7 ~ 3.6	2.7 ~ 3.6

## Availability

Grade	Quantity	Packing Type
RT-1260°C (2300°F)	15 or 20 Kg.	HDPE Bag
HTZ-1425°C (2600°F)	15 or 20 Kg.	HDPE Bag

# Other sizes available on request subject to minimum order requirements

## Chemical Composition

Material	RT-1260°C (2300°F)	HTZ-1425°C (2600°F)
Al <sub>2</sub> O <sub>3</sub>	43-46	35-37
SiO <sub>2</sub>	54-57	47-49
ZrO <sub>2</sub>	-----	14-18
Fe <sub>2</sub> O <sub>3</sub>	< 0.12	< 0.12
Other	Traces	Traces

**Note :** All data represents typical result of standard tests conducted under controlled conditions. As such, the information is intended only as a general guide for specifications and design estimates.

# CERAMIC FIBER BLANKET



Divine Cera Ceramic fiber blanket is made up from our Bulk fiber a fire-resistant insulation material in white and tidy size, with integrated fire resistance, heat separation and thermal

insulation functions, containing no binding agent and maintaining good tensile strength, toughness, and the fibrous structure when used in a neutral, oxidized atmosphere.

Our ceramic fiber blankets are manufactured by bulk fibers prepared using latest spinning process in India. The blanket is light weight, flexible, and available in a wide variety of thickness, widths and densities.

## CHARACTERISTICS

- Double needled blanket
- Low thermal conductivity
- Excellent insulation properties
- Excellent tensile strength
- Excellent chemical stability
- Low weight comparatively other refractory material
- Resistant to thermal shock
- Flexible and easy to cut and install
- Good sound absorption

## APPLICATIONS

- Industrial Furnace, Kiln and Own.
- Back and wall lining material.
- Furnace expansion joints, door, roof heat insulation seal.
- High temperature pipe insulation material.
- Pipe covering insulation of commercial dryers and covers
- Heat treating and annealing furnaces
- Furnace door linings, seals and hot face repairs
- Reusable turbine covers
- Veneer over existing refractory

## Technical Index

Specifications	RT-1260°C (2300°F)	HTZ-1425°C (2600°F)
<b>Melting Point (°C)</b>	1780 °C	1780 °C
<b>Maximum Continuous Use Temperature °C</b>	1050 °C	1200 °C
<b>Colour</b>	White	White
<b>Fiber Diameter (µm) (Micron)</b>	2.7 ~ 3.6	2.7 ~ 3.6
<b>Linear Shrinkage (%) after 24 hours soak</b> at 1100°C at 1200°C	2.5 Max 3.0 Max	2.5 Max 3.0 Max
<b>Thermal Conductivity (W/mk) at below Mean Temperature</b> at 600°C at 1000°C	0.15 0.28	0.12 0.24
<b>Tensile Strength (kPa)</b> (25 mm thick, 96 kg/m <sup>3</sup> ) (25 mm thick, 128 kg/m <sup>3</sup> )	50 Min. 65 Min.	50 Min. 65 Min.

## Availability

Thickness (mm)	Density Kg/m <sup>3</sup>				Roll Size Width (mm)	Roll Size Length (mm)
	64	96	128	160		
13	×	✓	✓	✓	610	610x7620
25	✓	✓	✓	✓	610	610x7300 or 7620
38	✓	✓	✓	✓	610	610x5000
50	✓	✓	✓	✓	610	610x3650 or 3810

# - Other sizes available on request subject to minimum order requirements

## Chemical Composition

Material	RT-1260°C (2300°F)	HTZ-1425°C (2600°F)
Al <sub>2</sub> O <sub>3</sub>	43-46	35-37
SiO <sub>2</sub>	54-57	47-49
ZrO <sub>2</sub>	-----	14-18
Fe <sub>2</sub> O <sub>3</sub>	< 0.12	< 0.12
Other	Traces	Traces



# CERAMIC FIBER MODULE



Being prominent ceramic Fiber producer in India, we manufacture ceramic fiber modules using premium quality ceramic fiber blanket.

Divine ceramic fiber module adopts high-quality spun fiber blanket and it is folded and pre-compressed to specific densities. There are various anchor systems. The ceramic fiber module is a unique type of refractory furnace lining products aiming at simplifying and speeding up furnace construction and improving the integrity of furnace lining.

This product has clean and white color as well as formal dimension, which can be directly fixed on the anchor nail on steel plate for shell of industrial furnace with excellent refractory and insulating effect. Thus, it has improved the refractory and insulating integrity of furnace and pushed forward the progress of furnace construction technology.

## CHARACTERISTICS

- Our ceramic fiber modules are available in different length, size and it can be quickly customized as per customer specifications.
- The ceramic Fiber modules manufactured by us are suitable for various industry applications serving large customer base in India and worldwide.
- Our ceramic Fiber modules are light weight having low heat storage and durable services.
- Module will squeeze with each another in different directions after unbinding, to produce no gap.
- Anchoring system is far away from hot surface of component, to allow metal anchor member to be in a relatively low temperature.
- Light weight, and absorbing less heat as insulation materials.
- Able to withstand any thermal shock.

## APPLICATIONS

- All kinds of industrial furnace and heating device linings for metallurgy, machinery, petrochemicals, non-ferrous metal industries.
- Low mass kiln cars
- Continuous and batch kilns
- Roller hearth furnace linings
- Gas Turbine exhaust ducts
- Stack linings in Power generation,
- Duct and Door linings
- Boiler insulation
- Furnace lining insulation for high-temperature applications

## Technical Index

Specifications	RT-1260°C (2300°F)	HTZ-1425°C (2600°F)
Melting Point (°C)	1780 °C	1780 °C
Maximum Continuous Use Temperature °C	1050 °C	1200 °C
Colour	White	White
Fiber Diameter (µm) (Micron)	2.7 ~ 3.6	2.7 ~ 3.6

## Availability

Grade	Density Kg/m <sup>3</sup>	Size	Packed in Corrugated Box
RT-1260°C (2300°F) & HTZ-1425°C (2600°F)	128	305x305x125	10 Pcs / Box
	160	305x305x150	08 Pcs / Box
HTZ-1425°C (2600°F)	192	305x305x(175,200)	06 Pcs / Box
	240	305x305x(225,250,275,305)	04 Pcs / Box
		300x300x300	04 Pcs / Box

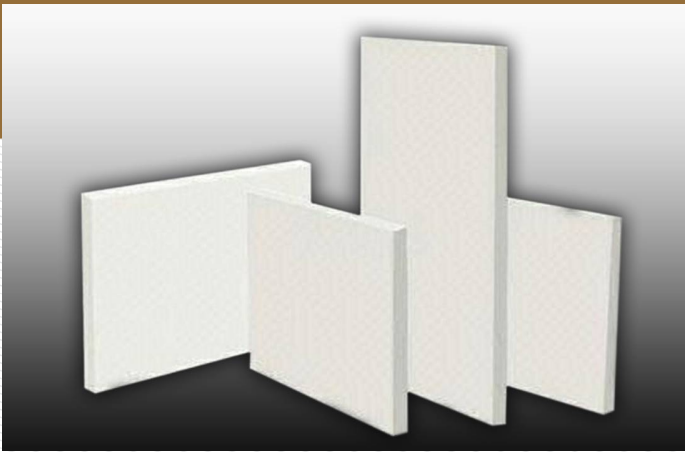
# - Other sizes & density available on request subject to minimum order requirements.

# - Anchoring is also available as per client requirement

## Chemical Composition

Material	HTZ-1425°C (2600°F)	RT-1260°C (2300°F)
Al <sub>2</sub> O <sub>3</sub>	43-46	35-37
SiO <sub>2</sub>	54-57	47-49
ZrO <sub>2</sub>	-----	14-18
Fe <sub>2</sub> O <sub>3</sub>	< 0.12	< 0.12
Other	Traces	Traces

# CERAMIC FIBER BOARD



Being prominent ceramic fiber products producer and exporter in India, we are using refractory fibers and binders for producing our Ceramic fiber board.

Divine Ceramic Fiber Board is made of ceramic bulk fiber with special formulated binder and produced by vacuum formed technology. The board has excellent toughness and intensity, high strength, lightweight, excellent thermal shock resistance and anti-stripping.

Divine Ceramic Fiber Board can be widely used for insulation in the linings around and at the bottom of kilns, as well as ceramic kilns fire position, craft glass mold and other positions.

## CHARACTERISTICS

- Low heat storage, low thermal conductivity
- Non-brittle material, good elasticity
- High compressive strength & temperature stability
- Excellent wind-erosion resistance, long service life
- Excellent thermal stability and thermal shock resistance
- Good anti-stripping properties
- Easily molded or cut, easy to install
- Accurate sizes and good flatness

## APPLICATIONS

- Refractory lining
- Insulating backup to dense refractory materials
- Insulating backup to brick & castable
- High-temperature baffles & muffles
- Flue & chimney linings in furnaces & kilns
- Hot gas duct linings & Expansion joints
- Industrial heat shields & thermal barriers
- Industrial combustion chamber construction

## Technical Index

Specifications	RT-1260°C (2300°F)	HTZ-1425°C (2600°F)
<b>Hardness Shore Scale (min.)</b>	45	45
<b>Bursting Strength Kg/Cm<sup>2</sup></b>	15 Min	15 Min
<b>Linear Shrinkage % 24 hrs.</b>	3.5 Max At 1200°C	3.5 Max At 1400°C
<b>Loss on Ignition (%)</b>	4 to 7	4 to 7
<b>Compressive Strength</b> At 10% deform Kg/Cm <sup>2</sup> At 25% deform Kg/Cm <sup>2</sup>	2.8 Min. 4.5 Min.	2.8 Min. 4.5 Min.
<b>Thermal Conductivity (W/mk) at below Mean Temperature</b> at 600°C at 800°C at 1000°C	0.11 0.13 0.19	0.12 0.16 0.20
<b>Rupture Strength (Mpa)</b> Thickness ≤ 25mm Thickness > 25mm	0.7 0.3	0.7 0.3

## Availability

Grade	Density Kg/m <sup>3</sup>	STD. Width & Length (mm)	Packed in Per Box
LT-1050°C (1930°F)	300-350	500x1000	12mm - 12 Pcs
RT-1260°C (2300°F)	320-380	600x1000	25mm - 06 Pcs
HTZ-1425°C (2600°F)	320-380	600x900	50mm - 04 Pcs
# - Other sizes available on request subject to minimum order requirements			

## Chemical Composition

Matirial	LT-1050°C (1930°F)	RT-1260°C (2300°F)	HTZ-1425°C (2600°F)
Al <sub>2</sub> O <sub>3</sub>	22-24	45-48	28-32
SiO <sub>2</sub>	71-73	52-55	52-58
ZrO <sub>2</sub>	-----	-----	13-15
Fe <sub>2</sub> O <sub>3</sub>	< 1.0	< 0.2	< 0.2
Other	Traces	Traces	Traces

# CERAMIC FIBER ROPE



**Divine Cera Ceramic Fiber Rope** is made from high quality ceramic fiber bulk, adding light yarn through special technology. It can be divided into twisted rope, square rope

and round rope. According to different working temperature and applications to add glass filament and inconel as reinforced materials, it is typically used in high temperature and high pressure pump and valve as seals, mainly for insulation application.

## CHARACTERISTICS

- Low thermal conductivity
- Excellent thermal shock resistance, thermal stability
- Excellent tensile strength
- Sound Insulation
- Easy cut and easy stall
- Containing no asbestos
- Chemical corrosion resistance

## APPLICATIONS

- Furnace doors insulation and seals
- Expansion joint filling in furnace and boiler
- Coke oven door seals
- High temperature gasket and packing
- Radiant tube packing heat treatment furnace
- Packed between steel bar and tube to avoid leakage of melting liquid

## Availability

Item	With Glass Fiber Yarn	With S.S. Wire	S.S. Wire reinforced Ceramic Fiber Yarn	Packing
Lagging Rope	✓	✓	✗	Packed in
Braided Rope	✓	✓	✓	LDPE Bag with
Twisted Rope	✓	✓	✓	Corrugated Box
Available in Diameter	6mm to 50mm (as per client requirement)			Available in Meter or Kg.
<b># Other type of insulation rope available on request subject to minimum order requirement.</b>				

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# CERAMIC FIBER PAPER



**Divine Cera Ceramic Fiber Paper** is manufactured from high purity ceramic fiber with a little binders. The product shows excellent thermal insulation properties and construction performance, especially suitable for deep processing (multi-layer composite, punching, etc.); and excellent resistance to molten infiltration, allowing itself to be used for casting washer separation in the construction and glass industries. Temperature varies from RT-1260°C (2300°F) and HTZ-1425°C(2600°F).

## CHARACTERISTICS

- Low thermal capacity and conductivity
- Excellent electrical insulation properties
- Excellent machining performance
- High strength, tear resistance
- High flexibility
- Low shot content

## APPLICATIONS

- Automotive and aerospace heat shields
- Gaskets for ovens, stoves, heaters and other appliances
- Automotive muffler insulation
- Investment casting mold wrap
- Expansion joints filling material
- Insulation material for instruments and heating element

## Availability

### Ceramic Fiber Paper - Roll Form (Width - 1000mm or 1220mm)

Thickness	1mm	2mm	3mm	4mm	5mm	6mm
Length (Meter)	40	30	20	15	12	10

### Ceramic Fiber Paper - Sheet Form

Size (mm) (Width x Length)	500 x 1000	500 x 1000
Thickness (mm)	2,3,5,6,10,12	2,3,5,6,10,12

# - Other sizes & thickness is available on request subject to minimum order requirement.

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# CERAMIC FIBER SHAPES



**Divine Cera Ceramic fiber shape** is made from out refractory ceramic fiber, attending inorganic and suitable organic binders. The mixture is vacuum formed into a

variety of shapes, such as block, board, fabricated part, burner, cracking furnace peep sight hole, cylinder etc. They can be also pre-installed resistance wire as electric boiling plate. Alumina fiber board can be manufactured using four basic fiber types: classification temperature LT-1050°C (1930°F), RT-1260°C (2300°F) and HTZ-1425°C (2600°F).

## CHARACTERISTICS

- Low impurity, and average bulk density and thickness
- Excellent mechanical strength and structural strength
- Low thermal conductivity
- Low shrinkage
- Resistant airspeed eroding

## APPLICATIONS

- Heat insulation materials for electro-thermal equipments, steel and metallurgy.
- Peep sight hole & Insulation pipes
- Insulation shapes
- Back-up lining of high-temperature industry furnaces.
- Electric element supporter
- Door and kiln car.

## Availability

# - **Ceramic Fiber Shapes** is available on request subject to minimum order requirements.

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