

A New Generation of World Class Ceramic Fiber Products



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CERAMIC FIBER BULK

Product Description :

Ceramic Fiber Bulk is made from high purity Alumina, Silica (and Zirconia) by electrical arc. It is resistant to chemical attack. Ceramic fibers are loose, long and flexible with high refractory properties.

Characteristics :

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

Applications :

- Raw material of secondary ceramic fiber products e.g. blanket, paper, board
- Expansion joint seal
- Temporary repair of insulation
- Loose filling for insulation of complex spaces and areas where access is difficult.



Technical Index :

Classification Temperature (°C)	1260	1425
Melting Point (°C)	1760	
Colour	White	
Fiber Diameter (µm)	2.5 ~ 4	
Non Fibrous content by wt. (%)	30 Max.	
Chemical Composition (%)		
Al ₂ O ₃	42-47	30-34
SiO ₂	53-58	48-55
ZrO ₂	-----	13-18
Other	Traces	Traces
Packing (kg/bag)	15	

All data represents typical results 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

Product Description :

Ceramic Fiber Blanket is made from high purity Alumina-Silica (and Zirconia). Double needling enhances the physical properties of the blanket, conferring good handling ability, durability and resistance to delaminating.

Characteristics :

- Double needled blanket
- Low density
- Low thermal conductivity
- Short heating & cooling time
- Resistant to thermal shock
- Flexible and easy to cut and install
- Contains no organic binder
- Asbestos free

Applications :

- Lining for furnace, kiln and oven
- Expansion joints and seals for furnace, kiln and oven
- Back-up insulation
- Lagging of high temperature pipe work
- High temperature filtration
- Steam turbine and nuclear insulation
- Fire protection



Technical Index :

Classification Temperature (°C)	1260	1425
Colour	White	
Fiber Diameter (µm)	2.5 ~ 4	
Linear Shrinkage (%)	1200°C x 24 hrs -3.5	1400°C x 24 hrs -3.5
Thermal Conductivity (W/mk) (Density 128 kg/m ³ & Mean Temperature 500°C)	0.15	
Tensile Strength (KPa) (25 mm thick, 128 kg/m ³)	55 Min.	
Non Fibrous content by wt.(%)	30 Max.	
Theoretical Density (kg/m ³)	64/96/128	
Chemical Composition (%)		
Al ₂ O ₃	42-47	30-34
SiO ₂	53-58	48-55
ZrO ₂	-----	13-18
Other	Traces	Traces
Blanket Size (mm)*	13 x 610 x 7620 25 x 610 x 7620 50 x 610 x 3810	

* Other sizes available on special order.

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CERAMIC FIBER MODULE

Product Description :

Ceramic Fiber Module is made from SIMWOOL ceramic fiber blanket folded under compression to form folded module and/or pre-cut blanket stack-bonded to form a veneer module with cut edges exposed.

Characteristics :

- Low thermal conductivity
- Great mechanical strength
- Resistant to gas flow erosion
- Short heating & cooling time
- Resistant to thermal shock
- Flexible and easy to cut and install
- Asbestos free

Applications :

- Iron and Steel reheating furnace
- Multi and single stack coil annealing furnace
- Transfer ladle lids
- Continuous annealing and coat ducting furnaces, roll furnace
- Petrochemical : Reformers, Ductwork pyrolysis heaters
- Ceramic : Shuttle Kiln, Tunnel Kiln, Kiln cars
- Utilities : Waste heat recovery units, Combustion Chambers, Boiler ductwork



Technical Index :

Classification Temperature (°C)	1260	1425
Colour	White	
Fiber Diameter (µm)	2.5 ~ 4	
Non Fibrous content by wt. (%)	30 Max.	
Theoretical Density (kg/m³)	128,160,192	
Chemical Composition (%)		
Al ₂ O ₃	43-47	30-34
SiO ₂	53-58	48-55
ZrO ₂	-----	13-18
Other	Traces	Traces
Module size (mm)*	150 x 305 x 305 175 x 305 x 305 200 x 305 x 305 225 x 305 x 305 250 x 305 x 305 275 x 305 x 305 305 x 305 x 305	

* Other sizes available on special order.

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CERAMIC FIBER BOARD

Product Description :

Ceramic Fiber Board is made from refractory fibers and binders which have low organic content, the mixture is vacuum processed into boards that imparts good mechanical strength even after heating.

Characteristics :

- Low thermal conductivity
- Resistant to thermal shock
- Great mechanical strength
- Even density & thickness
- Able to withstand gas flow velocity of 30m/sec
- Easy to cut or install
- Good erosion resistance
- Short heat up and cool down time
- Asbestos free

Applications :

- Hot face lining of ceramic kilns
- Insulation for kiln car
- Furnace door insulation
- Duct insulation
- General thermal barriers
- High temperature insulation



Technical Index :

Temperature° C	Density (kg/m ³)	Al ₂ O ₃ (%)	SiO ₂ (%)	ZrO ₂ (%)	Loss on Ignition (%)
1050° C	300-370	21-23	72-74	--	5-8
1260° C	320-380	43-45	54-56	--	4-7
1425° C	320-380	29-31	54-58	12-14	4-7

Temperature° C	Compressive Strength 10% deform (kg/cm ²)	Compressive Strength 25% deform (kg/cm ²)	Bursting Strength (kg/cm ²)	Linear Shrinkage % 24 hrs.	
1050°C	2.8 Min.	4.5 Min.	10 Min.	2.5 Max.	At 1000°C
1260°C	2.8 Min.	4.5 Min.	15 Min.	3.5 Max.	At 1200°C
1425°C	2.8 Min.	4.5 Min.	15 Min.	3.5 Max.	At 1400°C

• Standard Size : 25mm x 500mm x 1000mm (also available in other thickness of 10-100 mm)

• Other sizes available on special order.

All data represents typical results of standard tests on 25mm thick Ceramic Fiber Board conducted under controlled conditions. As such, the information is intended only as a general guide for specifications and design estimates.

CERAMIC FIBER ROPE

Product Description :

Ceramic Fiber Rope is a round braided rope. It is made from high quality aluminosilicate fiber reinforced with fiberglass or stainless steel wire. They can be used for high temperature for application up to 1260°C.

Characteristics :

- Stable at high temperature
- High tensile strength
- Strong resistance to thermal shock and corrosion attack
- Low thermal conductivity
- Asbestos free

Application :

- Furnace door insulation and seal
- Coke oven door seal
- Foundries, refineries and power plants
- Gasket for vacuum degassing of steel
- Expansion joint packing in boilers and furnaces
- Glass furnace sealing

Available in Diameter of 8mm, 13mm, 19mm, 25mm, 38mm & 50mm





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