

Ceramic Fiber Blanket up to 1260°C



DESCRIPTION

Ceramic fiber Blankets up to 1260°C are lightweight needled blankets manufactured from Isofrax alkaline earth silicate wool and provide effective solutions to a variety of thermal management problems. Ceramic fiber Blankets to 1260°C are completely inorganic and so retain their strength, flexibility and thermal properties in many working environments, without the generation of smoke or fumes. Available in a range of density and thickness combinations, Ceramic fiber Blankets 1260°C can be used in a wide variety of high temperature applications.

GENERAL CHARACTERISTICS

Ceramic fiber Blankets up to 1260°C have the following outstanding characteristics:

- High temperature stability
- Low thermal conductivity
- Resistance to thermal shock
- Good handling strength
- Excellent flexibility

TYPICAL APPLICATIONS

- High temperature furnace and kiln linings
- Boiler insulations
- Pipe and duct insulation
- Heat shields

Any new and/or special use of these products, whether or not in an application listed in our literature, must be submitted to our technical department for their prior written approval.

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TYPICAL PRODUCT PARAMETERS

Ceramic fiber Blanket			
Typical Chemical Analysis (wt.%)			
SiO ₂	70.0 - 80.0		
MgO	>18.0 - 27.0		
Trace	<4.0		
Physical Properties			
Colour	White		
Melting Point (°C)	>1500		
Mean Fibre Diameter (microns)	4.0		
Density (kg/m³)	96	128	160
Thermal Conductivity (W/mK)			
Mean Temp.			
400 °C	0.10	0.10	0.09
600 °C	0.15	0.14	0.13
800 °C	0.22	0.20	0.18
1000 °C	0.31	0.27	0.25
Tensile Strength (kPa)			
	25	40	40

AVAILABILITY

Thickness (mm)	Density (kg/m ³)			Roll Length (m)
	96	128	160	
13	✓	✓		12.50
25	✓	✓	✓	7.32
38	✓	✓		5.00
50	✓	✓		3.66

Standard roll width is 610mm or 1220mm. Other thicknesses / sizes may be available on request subject to minimum order requirements. Versions with aluminium foil and other coverings are available subject to order.

HANDLING INFORMATION

A Material Safety Data Sheet has been issued describing the health, safety and environmental properties of this product, identifying the potential hazards and giving advice on handling precautions and emergency procedures. This must be consulted and fully understood before handling, storage or use.

