

Ceramic Fiber Blanket



Datasheet Code 5-5-01 E

MSDS Code 104-9-EURO REACH

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DESCRIPTION

Refractory blankets are available in roll form in a wide variety of densities and thicknesses. All blankets are made from long refractory fibers, binder free and are needed.

They have excellent strength before and after heating. All blankets have excellent chemical resistance unaffected by all chemicals except hydrofluoric acids and strong alkalis.

TYPE

Refractory Fiber Blankets

CLASSIFICATION TEMPERATURE

Cerawool : 1200 °C

Cera Blanket : 1260 °C

Cerachem Blanket : 1425 °C

The Maximum use temperature depends on the application. In case of doubt, refer to MMTCL Technical service for advice.

AVAILABILITY

Standard sizes:

- 610 mm width X 7300 mm length
- 610 mm width X 3650 mm length for 38 & 50 mm thick
- 1220 mm width X 7300 mm length
- 610 mm width X 14640 mm length for 6 & 12 mm thick

FEATURES

- Excellent insulating performance
- Excellent thermal stability
- Low heat storage
- Resistance to thermal shock
- Good sound absorption

APPLICATIONS

- Furnace and Kiln linings
- Boiler insulations
- Reformer and heat lining
- Coke oven hot repair
- Expansion gap
- Duct and Pipe linings
- Thermal barriers for automotive industry
- Die cut shapes for automobiles
- Steam and gas turbine insulation

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MAJOR PROPERTIES

Physical Properties	Cera Blanket	Cerachem Blanket			Cerawool Blanket		
Classification temperature °C	1260	1425			1200		
Chemical composition (%) (IS:12107 / XRF)							
Al ₂ O ₃	42 – 46	33 – 37			37 – 41		
SiO ₂	54 – 58	48 – 52			57 – 61		
ZrO ₂	-	13 – 17			-		
Fe ₂ O ₃	0.1	0.1			≤1.2		
Tensile strength (kgf/m ²) (ENV 1094-7)							
64 kg/m ³	2500	2500			2000		
96 kg/m ³	4500	4500			3000		
128 kg/m ³	6000	6000			4500		
160 kg/m ³	7000	7000			-		
190 kg/m ³	7500	7500			-		
Linear shrinkage % - 24 hrs Max (ENV 1094-7)	3.0 (1200°C)	3.5 (1400°C)			3.0 (1150°C)		
Thermal conductivity (w/mk) (ASTM C 201)	Cera/Cerachem Blanket			Cerawool Blanket			
Densities kg/m³	64	96	128	64	96	128	
600°C	0.20	0.16	0.15	0.23	0.17	0.16	

AVAILABILITY & PACKAGING	Cera / Cerachem Blanket					Cerawool		
Thickness (mm)	Density (kg/m ³)							
	64	96	128	160	190	64	96	128
6	-	-				-	-	-
8	-					-	-	-
12	-					-	-	-
19						-	-	-
25								
38					-	-	-	-
50					-	-	-	-

The values given herein are typical values obtained in accordance with accepted test methods and are subject to normal manufacturing variations. They are supplied as a technical service and are subject to change without notice. Therefore, the data contained herein should not be used for specification purposes. Check with your Thermal Ceramics office to obtain current information.

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