

MURUGAPPA MORGAN THERMAL CERAMICS LIMITED

PRODUCT INFORMATION

CERAMIC FIBRE BLANKETS



TYPE: Refractory fibre Blankets

Classification temperature:

STD BLANKET : 1260° C

AZS BLANKET : 1425° C

Cerablanket : 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.

DESCRIPTION

Refractory blankets are available in roll form in a wide Variety of densities and thicknesses. All blankets are made from long refractory fibres, binder free and are needled. They have excellent strength before and after heating. All blankets have excellent chemical resistance unaffected by all chemicals except hydrofluoric acids and strong alkalies.

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
- Unaffected by most chemicals except hydrofluoric and phosphoric acids and strong alkalies

APPLICATIONS

- Furnace & kiln linings
- Boiler insulations
- Reformer & heater lining
- Coke oven hot repair
- Expansion gap
- Duct and Pipe linings
- Thermal barriers for automotive industry
- Die cut shapes for automobiles
- Steam and Gas turbines insulation

MURUGAPPA MORGAN THERMAL CERAMICS LIMITED
PRODUCT INFORMATION
CERAMIC FIBRE BLANKETS
MAIN PROPERTIES

Physical Properties	STD Blanket	AZS Blanket	Cerablanket	Cerachem Blanket		
Classification temperature °C	1260	1425	1260	1425		
Chemical composition (%)						
Al ₂ O ₃	43 – 47	32 – 36	42 – 46	33 – 37		
SiO ₂	53 – 57	44 – 48	54 – 58	48 – 52		
ZrO ₂	-	16 - 19	-	13 – 17		
Fe ₂ O ₃	0.1	0.1	0.1	0.1		
CaO + MgO	0.08	0.08	0.08	0.08		
Na ₂ O + K ₂ O	0.40	0.40	0.40	0.40		
Tensile strength (kgf/m ²)						
64 kg/m ³	1200	1200	2500	2500		
96 kg/m ³	2000	2000	4500	4500		
128 kg/m ³	3000	3000	6000	6000		
160 kg/m ³	4000	4000	7000	7000		
190 kg/m ³	5000	5000	7500	7500		
Linear shrinkage % - 24 hrs Max	3.2 (1200°C)	3.5 (1400°C)	3.0 (1200°C)	3.5 (1400°C)		
Thermal conductivity w/mk	STD Blanket/AZS Blanket			Cerablanket/Cerachem Blanket		
Densities kg/m ³	64	96	128	64	96	128
400°C	0.12	0.09	0.08	0.12	0.11	0.10
600°C	0.20	0.14	0.13	0.20	0.16	0.15
Availability & Packaging	STD Blanket/AZS Blanket/Cerablanket/Cerachem Blanket					
Thickness (mm)	Density					
	64	96	128	160	190	
6	-		X	X	X	
8	-	X	X	X	X	
12	-	X	X	X	X	
19	X	X	X	X	X	
25	-	X	X	X	X	
38	-	X	X	X		-
50	-	X	X	X		-

All above blankets are subjected to standard tolerances. The values given herein are typical values obtained in accordance with accepted test methods and 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.