CERAMIC FIBRE BLANKETS

Murugappa Morgan Thermal Ceramics Ltd., Associate company of Murugappa Group

TYPE: Refractory fibre 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.

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 Ltd. Regn No:U26919TN1982PLC009622, Registered Office: Dare House Complex, No 2, NSC Bose Road, Chennai – 600 001. INDIA

CERAMIC FIBRE BLANKETS

Murugappa Morgan Thermal Ceramics Ltd., Associate company of Murugappa Group

MAIN PROPERITIES

Physical Properties	Cera Blanket	Cerachem Blanket	Cerawool Blanket
Classification temperature °C	1260	1425	1200
Chemical composition (%) (IS:12107 / XRF)			
Al_2O_3	42 – 46	33 – 37	37 – 41
SiO_2	54 – 58	48 – 52	57 – 61
ZrO_2	-	13 – 17	-
Fe_2O_3	0.1	0.1	$\leq$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/m^3	**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**							
	64	96	128	160	190	64	96	128
6	-	-	✓	✓	✓	-	-	-
8	-	✓	✓	✓	✓	-	-	-
12	-	✓	✓	✓	✓	-	-	-
19	✓	✓	✓	✓	✓	-	-	-
25	✓	✓	✓	✓	✓	✓	✓	✓
38	✓	✓	✓	✓	-	-	-	-
50	✓	✓	✓	✓	-	-	-	-

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.

Murugappa Morgan Thermal Ceramics Ltd. Regn No:U26919TN1982PLC009622, Registered Office: Dare House Complex, No 2, NSC Bose Road, Chennai – 600 001. INDIA