Thermal Ceramics

MAFTEC™ Blanket

Product Information



DESCRIPTION

MAFTEC[™] Blanket is made from pure mullite fibre only, needled on both sides, and contains no binder or other added constituent. It can be used at continuous operating temperatures up to 1600°C, under oxidizing, neutral or slightly gas-rich conditions, retaining its original toughness, strength and soft, fibrous structure after extended use at this temperature.

MAFTEC Blanket is more resistant to acid and alkaline solutions than conventional alumino-silicate fibre blankets.

Being virtually free of shot, it has exceptionally good thermal insulation characteristics.

TYPE

Refractory fibre blanket.

MAXIMUM CONTINUOUS USE TEMPERATURE

1600°C

The maximum continuous use temperature depends on the application. In case of doubt, refer to your local Thermal Ceramics distributor for advice.

FEATURES

- Because of its microcrystalline structure, MAFTEC Blanket is suited for continuous operation at 1600°C
- Very low thermal conductivity
- Very low shrinkage at 1600°C
- Resistant to thermal shock
- MAFTEC Blanket is ideal for the manufacturing of modular blocks because it remains soft up to 1600°C
- Good sound absorption
- High strength make it easy to handle and prevents tearing or punching around anchors
- Chemically stable and free of corrosive agents
- Low heat storage

APPLICATIONS

- Furnace and kiln lining (heat treatment, ceramic fast firing, petroleum and chemical)
- High temperature gaskets
- Furnace door seals
- High temperature filter media

MAFTEC[™] Blanket

Product Information

Aaximum continuous use temperature	°C	16	600	
Properties Measured at Ambient Conditions	(23°C/50% RH)			
Colour		w	nite	
Density	kg/m ³	96	128	
Tensile strength (NF-B-40-454)	kPa	93	103	
ligh Temperature Performance				
Permanent linear shrinkage after 24 hours				
isothermal heating at:				
1300°C	%		.3	
1400°C	%		.8	
1500°C	%	0.9		
1600°C	%	1	.0	
Thermal conductivity (NFB-40-456)				
at mean temperature of:		96kg/m ³	128kg/m ³	
400°C	W/mK	0.08	0.08	
500°C	11	0.10	0.09	
600°C	П	0.13	0.12	
700°C	Ш	0.17	0.14	
800°C	Ш	0.19	0.17	
900°C	п	0.23	0.20	
1000°C	П	0.27	0.24	
1200°C	п	0.39	0.33	
1400°C	П	0.58	0.48	
Specific heat capacity at 1090°C	kJ/kg.K	1.25		
Chemical Composition				
SiO ₂	%	28		
Al ₂ O ₃	%	72		
Fe ₂ O ₃	%	0.03		
TiŌ2	%	0.	.01	

$Na_2O + K_2O$

Availability and Packaging MAFTEC Blankets are packed in cartons, on pallets

Thick. Density kg/m ³			Length	Width	Blankets/	m²/
mm	96	128	mm	mm	carton	carton
6	Х	О	3600	610	12	26.52
12.5	Х	Х	3600	610	6	13.17
25	Х	Х	3600	610	3	6.58

%

%

Your local contact:

TiO₂ CaO + MgO

Distributed by:

traces

0.06

The values given herein are typical average 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.

Thermal Ceramics Marketing Offices

Thermal Ceramics Americas 2102 Old Savannah Road Augusta, Georgia 30903 Tel: +1 706 796 4200 Fax: +1 706 796 4398 E-mail: tceramics@thermalceramics.com

Thermal Ceramics Asia Pacific 28 Jalan Kilang Barat Kewalram House, Singapore 159362 Tel: +65 6273 1351 Fax: +65 6273 0165 E-mail: thermalceramics@tcasia.com.sg

Website: www.thermalceramics.com

Thermal Ceramics Europe Tebay Road, Bromborough Wirral CH62 3PH UK Tel: +44 (0) 151 334 4030 Fax: +44 (0) 151 334 1684 E-mail: marketing@thermalceramics.co.uk