



MAFTEC Blanket

Product Datasheet

Product 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.

The maximum continuous use temperature depends on the application. In case of doubt, refer to your local Morgan 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
- 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

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Properties		MAFTEC Blanket	
Colour		White	
Maximum Continuous Use Temperature, °C		1600	
Density, kg/m ³		96, 128	
Tensile Strength (NF-B-40-454), kPa			
	Density, kg/m ³ : 96	93	
	Density, kg/m ³ : 128	103	
Permanent Linear Shrinkage after 24 hours isothermal heating at			
	1300°C	0.3%	
	1400°C	0.8%	
	1500°C	0.9%	
	1600°C	1.0%	
Thermal Conductivity (NFB-40-456) at mean temperature of			
	<u>Density, kg/m³</u>	<u>96</u>	<u>128</u>
	400°C	0.08 W/m•K	0.08 W/m•K
	600°C	0.13 W/m•K	0.12 W/m•K
	800°C	0.19 W/m•K	0.17 W/m•K
	1000°C	0.27 W/m•K	0.24 W/m•K
	1200°C	0.39 W/m•K	0.33 W/m•K
	1400°C	0.58 W/m•K	0.48 W/m•K
Specific heat capacity at 1090°C		1.25 kJ/kg•K	-
Chemical Analysis, %			
	Al ₂ O ₃	72	
	SiO ₂	28	
	Fe ₂ O ₃	0.03	
	TiO ₂	0.01	
	CaO + MgO	tracce	
	Na ₂ O + K ₂ O	0.06	

Product Availability

Thickness, mm	Density, kg/m ³		Length, mm	Width, mm	Blankets/carton	m ² /carton
	96	128				
6	X	O	3600	610	12	26.52
12.5	X	X	3600	610	6	13.17
25	X	X	3600	610	3	6.58

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