

Ceramic Fiber High Temperature Board



Datasheet Code 5-5-01 E

MSDS Code 104-9-EURO REACH

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DESCRIPTION

Ceramic fiber boards are rigid self supporting insulating product manufactured from Refractory fibers.

Ceramic fiber boards are designed for use in application conditions requiring superior insulating properties combined with high rigidity and mechanical strength at high temperature

TYPE

Rigid high temperature boards based on refractory fibers

CLASSIFICATION TEMPERATURE

M – 1600 : 1600 °C

L – 1600 : 1600 °C

AVAILABILITY

Standard sizes:
500 mm width X 1000 mm length

FEATURES

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

APPLICATIONS

- Back up insulation in refractory construction
- High temperature ceramic kiln & cars
- Hot face lining material in furnace building
- Back up insulation in steel ladles
- Back up insulation in Glass melting furnace
- Molten aluminium handling applications

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MAJOR PROPERTIES

Physical Properties	M – 1600 °C	L – 1600 °C
Classification temperature °C	1600 °C	1600 °C
Chemical composition (%) (IS : 12107 / XRF)		
Al ₂ O ₃	> 70 *	> 40
SiO ₂	< 28	< 48
ZrO ₂		> 9
Loss on ignition %	< 10	< 10
Density (Nominal) kg/m ³	425	200
Modulus of Rupture KPa Up to 25mm thick	1600	500
Modulus of Rupture KPa > 25mm thick	1000	250
Linear shrinkage % - 24 hrs (Max)	0.5 (At 1400°C)	2.0 (At 1400°C)
Thermal conductivity (W/mk) 600°C (Mean temperature) (ASTM C 201)	0.080	0.080
Availability & Packaging 500 mm width x 1000 mm length		
Thickness (mm)		
10	✓	✓
12	✓	✓
15	✓	✓
20	✓	✓
25	✓	✓
30	✓	✓
40	✓	✓
50	✓	✓

* Al₂O₃ + ZrO₂

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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