

Ceramic Fiber 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

TYPE

Rigid board based on refractory fibers

CLASSIFICATION TEMPERATURE

STD Board	: 1260 °C
AZS Board	: 1400 °C
S Board	: 1260 °C
E Board	: 1100 °C
Baffle Board	: 1260 °C & 1400 °C

The Maximum use temperature depends on the application. In case of doubt, refer to MMTCL Technical service for advice.

AVAILABILITY

Standard sizes:

500 mm width X 1000 mm length
1000 mm width X 1000 mm length
1000 mm width X 1200 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	STD Board	AZS Board	S Board	E Board	Baffle Board	
Classification temperature °C	1260	1400	1260	1100	1260	1400
Chemical composition (%) (IS:12107 / XRF)						
Al ₂ O ₃	> 40	> 29	> 44	> 30	> 40	> 29
SiO ₂	< 60	< 55	< 56	< 60	< 60	< 55
ZrO ₂	-	> 10	-	< 19.5	-	> 10
Loss on ignition %	< 10	< 10	< 10	< 10	< 10	< 10
Density (Nominal) kg/m ³	240	240	330	240	250-325	250-325
Modulus of Rupture (KPa) up to 25 mm thick	500	500	1000	200	400	400
Modulus of Rupture (KPa) Above 25 mm thick	200	200	700	125	150	150
Linear shrinkage % - 24 hrs (Max) (ENV 1094-7)	4.0 (1200°C)	4.0 (1350°C)	4.0 (1200°C)	3.5 (1100°C)	4.0 (1200°C)	4.0 (1350°C)
Thermal conductivity (w/mk)						
600°C (Mean temperature) (ASTM C 201)	0.11	0.11	0.13	-	0.11	0.11
Thickness (mm)						
5	✓	✓	✓	-	-	-
10	✓	✓	✓	✓	-	-
12	✓	✓	✓	✓	✓	✓
15	✓	✓	✓	✓	✓	✓
20	✓	✓	✓	✓	✓	✓
25	✓	✓	✓	✓	✓	✓
30	✓	✓	✓	✓	✓	✓
40	✓	✓	✓	✓	✓	✓
50	✓	✓	✓	✓	✓	✓
60	✓	✓	✓	✓	✓	✓
75	✓	✓	✓	✓	✓	✓
100	✓	✓	-			
125	✓	✓	-	-	-	-
150	✓	✓	-	-	-	-

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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