

High Strength Ceramic Fiber Board



Datasheet Code 5-5-01 E

MSDS Code 104-9-EURO REACH

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DESCRIPTION

High strength ceramic fiber board possesses high compressive and flexural strength along with good resistance to erosion from gas flow in comparison to normal Ceramic fiber boards.

High strength board is designed to meet the toughest knocks and pressure, maintaining its strength over a long productive life.

It has low shrinkage compared to other fiber products.

TYPE

High strength boards based on refractory fibers

CLASSIFICATION TEMPERATURE

HS 45 : 1260 °C
SS 800 : 1260 °C

AVAILABILITY

Standard sizes:

500 mm width X 1000 mm length
600 mm width X 1000 mm length

FEATURES

- Very high strength
- Excellent machinability
- Low shrinkage
- Non – Wetting to molten Aluminum and other non – ferrous metals

APPLICATIONS

- Backup insulation in steel ladles Like Tundish & Torpedo ladles
- Rotary Kiln back up of Calcining and Dolomite Kilns
- Used as back up to feeder channels of glass tanks.
- Excellent Non – wettability to molten Aluminum and ideally suited for various molten metal contact applications such as Launderers, Header Box, Troughs and Hot top Moulds etc

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MAJOR PROPERTIES

| Physical Properties | HS-45 | SS 800 |
|---|-----------------|-----------------|
| Classification temperature °C | 1260 | 1260 |
| Chemical composition (%) (IS:12107/ XRF) | | |
| Al ₂ O ₃ | 49 – 53 | > 50 |
| SiO ₂ | 33 – 37 | < 35 |
| CaO | 9 – 12 | > 10 |
| Loss on ignition % | < 10 | < 10 |
| Density (Nominal) kg/m ³ | 720 | 800 |
| Modulus of Rupture Kpa < 25 mm thick | 3000 | 5000 |
| Modulus of Rupture Kpa > 25 mm thick | 2000 | - |
| Linear shrinkage % - 24 hrs (Max) (ENV 1094-7) | 1.0 (1200°C) | 1.0 (1200°C) |
| Thermal conductivity w/mk | | |
| 600°C (Mean temperature) (ASTM C 201) | 0.16 | 0.16 |
| Thickness (mm) | | |
| 5 | ✓ | - |
| 10 | ✓ | ✓ |
| 12 | ✓ | ✓ |
| 15 | ✓ | ✓ |
| 20 | ✓ | - |
| 25 | ✓ | - |
| 30 | ✓ | - |
| 40 | ✓ | - |
| 50 | ✓ | - |

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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