

CERAMIC FIBER BOARD

Ceramic Fiber board is manufactured in a wet forming process using Ceramic Fiber bulk and binders. Ceramic Fiber board is designed for insulation applications experiencing vibration, mechanical stress and erosive forces. Ceramic Fiber board can reduce energy costs and cycling times due to high insulating capability, as well as serving to protect refractory surfaces from thermal shock and chemical attack.



Features

Excellent thermal shock resistance
Can be machined, cut and shaped easily
High rigidity and light weight
Low thermal conductivity
Low heat storage

Typical Applications

Furnace hot face lining in petrochemical furnace
Furnace hot face lining in ceramic kiln
Board over blanket hot face lining
Back-up insulation to brick & castable
Expansion joints

Typical Parameters

| Description | STD BOARD | HP BOARD | HA BOARD | HZ BOARD |
|--|-----------------|-----------------|-----------------|-----------------|
| Classification Temperature (°C) | 1260 | 1260 | 1350 | 1430 |
| Color | White | White | White | White |
| Density (kg/m ³) | 250/300/360 | 250/300/360 | 300/360 | 300/360 |
| Modules of Rupture (MPa) | ≥0.3 | ≥0.3 | ≥0.3 | ≥0.3 |
| Compressive Strength (MPa, 10% relative deformation) | 0.15/0.25/0.3 | 0.25/0.3 | 0.25/0.3 | 0.25/0.3 |
| Loss of Ignition (%) | ≤6 | ≤6 | ≤6 | ≤6 |
| Permanent Linear Shrinkage (%) | 1000°C x24h≤3.0 | 1100°C x24h≤3.0 | 1200°C x24h≤3.5 | 1350°C x24h≤3.5 |
| Thermal Conductivity (W/m·K) | | | | |
| 400°C | 0.08 | 0.07 | 0.07 | 0.07 |
| 600°C | 0.11 | 0.10 | 0.10 | 0.09 |
| 800°C | 0.14 | 0.14 | 0.13 | 0.13 |
| 1000°C | 0.19 | 0.19 | 0.19 | 0.18 |

The data shown are typical average results of tests under standard procedures and are subject to variation. Results should not be used for specification purposes or creating any contractual obligation. For more information on the safety application or materials, please refer to the work practices and material safety data sheet.



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