

CERAMIC FIBER BOARD

Luyangwool® ceramic fiber board is manufactured and designed for the thermal applications requesting high demands on rigidity, the thermal insulation properties and abrasion resistance of ceramic fiber board have been further improved due to the higher density. Ceramic fiber board is a vacuum formed product that resists higher gas velocities than ceramic fiber blanket. It is ideal for furnace, boiler duct and stack lining thanks to its low thermal conductivity and low heat storage, which makes the shorter cycle times and quicker access for maintenance in the industrial furnaces possible.



Features

- High rigidity and light weight
- Low thermal conductivity
- Resistance to thermal shock and gas erosion
- Easy cutting and engineering, mechanical flexibility
- Resists penetration by molten aluminum and other non-ferrous metals.

Typical Applications

- Refractory lining for industrial furnaces
- Combustion chamber liner, boilers and heaters
- Back-up insulation for monolithic refractories
- Transfer of non-ferrous metals
- Expansion joint boards
- Barrier against flame

Typical Parameters

Description	STD RCF Board	HP RCF Board	HZ RCF Board
Density (kg/m ³)	280/300/320	280/300/320	280/300/320
Classification Temperature (°C)	1260	1260	1430
Maximum Operating Temperature (°C)	1100	1200	1350
Moisture Content (%)	≤1	≤1	≤1
Linear Shrinkage after Heating (%)	1000℃*24h<2.5	1100℃*24h<2.5	1200℃*24h<2.5
Thermal Conductivity (W/m.k)			
200 °C	0.074	0.055	0.078
400 °C	0.092	0.073	0.102
500 °C	0.103	0.086	0.116
600 °C	0.127	0.105	0.135
Cold Crushing Strength (MPa)	0.2	0.12-0.2	0.12
Loss of Ignition (wt%)	≤7	≤7	≤7

The data shown are 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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บริษัท ทีโอพี อินซูลेशन แอนด์เทรดดิ้ง จำกัด

7/1 ซอยเพชรเกษม 108 แขวง 9 หมอชั่งบางพลุ เมืองบางเขน กทม. 10160

T. 02 808 2147-9

M. 086 785 9255