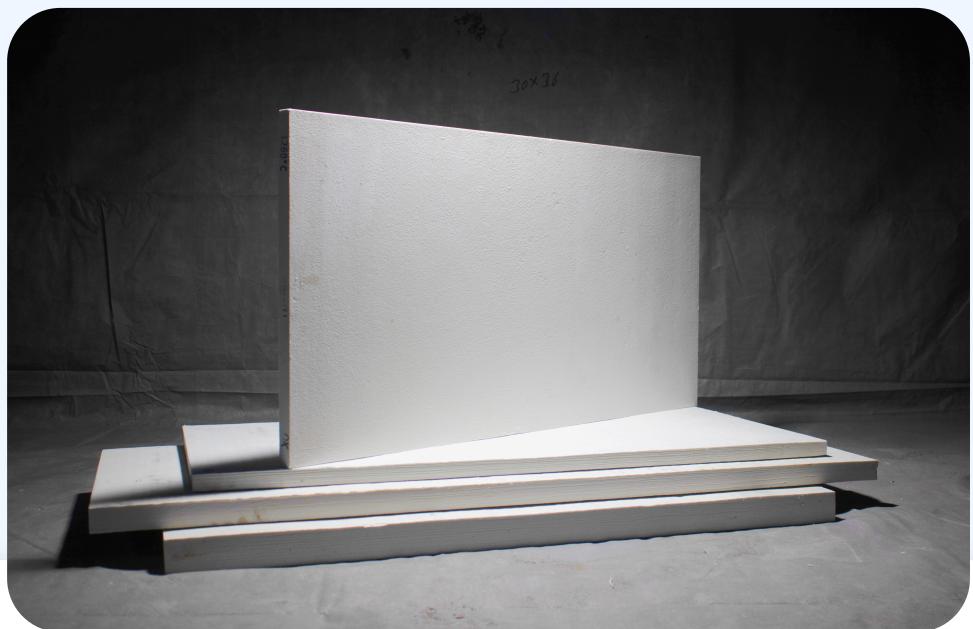




Product Overview :

Ceramic fiber boards are high-density, rigid insulation materials designed for use in high-temperature environments. These boards are composed of high-purity alumina-silicate fibers. They are engineered to deliver outstanding thermal insulation, mechanical strength, and resistance to thermal shock and chemical erosion. Ideal for applications such as furnace linings, kiln insulation, and high-temperature gaskets, ceramic fiber boards maintain structural integrity even under extreme conditions, making them a reliable choice for demanding industrial applications.



Key Points :

High Thermal Resistance: Capable of withstanding continuous exposure to temperatures up to 1425°C (2,597°F), providing effective insulation in extreme heat.

Durable and Rigid: Offers superior mechanical strength, making it suitable for environments with high vibrations, erosive forces, and mechanical stress.

Low Thermal Conductivity: Ensures minimal heat transfer, optimizing energy efficiency in high-temperature processes.

Chemical and Erosion Resistance: Excellent resistance to most chemicals, protecting the insulation in harsh industrial settings.

Versatile Applications: Adaptable to a wide range of high-temperature applications, from furnace linings to electrical insulation.

CERAMIC FIBER BOARD



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Applications:

Furnace and Kiln Linings: Provides a stable and durable lining material that withstands high temperatures and mechanical stress.

Thermal Barriers: Acts as an effective thermal barrier in various high-temperature industrial processes, minimizing heat loss.

High-Temperature Gaskets and Seals: Used in manufacturing gaskets for high-temperature applications, ensuring efficient thermal sealing.

Chemical Processing: Ideal for environments exposed to corrosive chemicals, offering robust protection and insulation.



Advantages:

High Mechanical Strength: Engineered to withstand mechanical stress, vibrations, and erosive forces, these boards maintain their structural integrity in demanding environments.

Chemical Stability: Excellent resistance to chemical corrosion, making them ideal for use in harsh environments where exposure to corrosive substances is common.

Technical Specifications:

Density, lb/ft ³ (kg/m ³)	Thickness, inch (mm)	Length, inch (mm)	Width, inch (mm)	Temperature
12.5 to 25 (200 to 400)	0.4 to 3 (10 to 75)	36 to 48 (900 to 1200)	20 to 24 (500 to 600)	1100°C 1260°C 1425°C

* size can be customizable upon request

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TECHNICAL SPECIFICATIONS :

Chemical Analysis	ACCEPTION CRITERIA		
	1100°C	1200°C	1425°C
Al ₂ O ₃ (%)	22 - 24	38 - 42	29 - 33
SiO ₂ (%)	71 - 73	58 - 62	51 - 56
ZrO ₂ (%)	-	-	13 - 15
L.O.I. % At 1000°C	5 - 8	4 - 6	4 - 8
Colour	White	White	White
Density			
kg/m ³	280 - 360	320 - 380	320 - 400
lb/ft ³	17.5 - 22.5	20 - 23.5	20 - 25
Hardness	25 - 40	45 - 50	45 - 50
Moisture	10 max	10 max	10 max
Modulus Of Rupture			
Thickness		-	-
25mm	-	10min	10min
50mm	10min	6min	6min
Permanent Linear Shrinkage (%)	800°C	At 1200°C	At 1400°C
After 24 Hrs. Soaking Heat	1.5 max	3 max	3.5 max
Compressive Strength (kg/cm ²)	Thickness	Thickness	Thickness
	25mm	25mm 50mm	25mm 50mm
10% Deformation	2.5 min	2.5min 2.5min	2.8min 2.8min
25% Deformation	5min	5min 5min	5min 5min

NOTE :- All data represents typical result of standard tests conducted under controlled condition. As Such, the information is intended only as a general guide for specifications and design estimates.