

CERAMIC FIBER BLANKET



Orient ceramic
fibertech
llp

Product Overview :

The ceramic fiber blanket is a lightweight, yet durable, thermal insulation product made from interwoven ceramic fibers. Engineered for high-temperature environments, it offers superior thermal resistance, withstanding temperatures up to 1425°C. Its low thermal conductivity and excellent thermal shock resistance make it ideal for industrial applications such as furnace linings, kiln insulation, and boiler seals. The blanket's flexible structure and high tensile strength ensure easy installation and long-lasting performance across various demanding environments



Key Points :

Exceptional Thermal Insulation: Our ceramic fiber blankets excel at providing outstanding insulation, effectively minimizing heat loss even in extreme temperatures.

Lightweight and Flexible: Designed for ease of use, these blankets are not only lightweight but also flexible, simplifying installation in a variety of settings.

High-Temperature Stability: These blankets maintain their structural integrity across a wide temperature range, ensuring consistent performance over time.

Chemical Resistance: Highly resistant to most chemicals and corrosive agents, making them suitable for harsh industrial environments.

Contact US :

orientfibertechllp@gmail.com

[+91 98253 55877](tel:+919825355877)

CERAMIC FIBER BLANKET



Orient ceramic
fibertech
llp

Applications:

Furnace Insulation: Ideal for lining and insulating furnaces, kilns, and other high-temperature processing equipment.

Petrochemical Industry: Used in refining, power generation, and chemical processing applications where reliable thermal insulation is essential.

Fire Protection: Provides effective fireproofing in buildings, industrial facilities, and other structures.

Boiler Insulation: Suitable for use in boiler walls, doors, and seals to enhance energy efficiency.



Advantages:

Energy Efficient: Reduces heat loss, leading to significant energy savings.

Durability: Withstand mechanical stress and abrasion, extending the lifespan of the insulation system.

Eco-Friendly: Asbestos-free and made from environmentally safe materials.

Technical Specifications:

Thickness, inch (mm)	Density, lb/ft³ (kg/m³)				Length mm	Width inch (mm)	m²/rolls	Temperature
	4 (64)	6 (96)	8 (128)	10 (160)				
½ (12)	✓	✓	✓	✗	7620/7300	24 (610)	4.64/4.45	1260°C
1 (25)	✓	✓	✓	✗	7620/7300		4.64/4.45	
2 (50)	✓	✓	✓	✓	3810/3650		2.32/2.22	1425°C

* size can be customizable upon request

Contact US :

orientfibertechllp@gmail.com

+91 98253 55877



TECHNICAL SPECIFICATIONS :

Chemical Analysis	ACCEPTION CRITERIA	
	1200°C	1425°C
Al ₂ O ₃ (%)	42 - 46	30 - 34
SiO ₂ (%)	54 - 58	50 - 54
ZrO ₂ (%)	-	14 - 18
Fe ₂ O ₃ (%)	< 0.1	< 0.1
TiO ₂ (%)	-	< 0.3
CaO (%)	< 0.04	< 0.04
MgO (%)	< 0.04	< 0.04
Thickness (25mm)	+8, -3	+8, -3
Width (610mm)	+10, -5	+10, -5
Length (7300mm)	+100, -0	+100, -0
Mean Fiber Dia (M)	2.6 to 3.4	2.6 to 3.4
Fiber Index (%)	48	48
Density	+20%, -15%	+20%, -15%
Linear Shrinkage For 24 Hrs At (1200°C)	<3.0%	-
Linear Shrinkage For 24 Hrs At (1400°C)	-	<3.0%
Longitudinal Tensile Strength		
PSI (Min)		
64 kg/m ³	2.0	-
96 kg/m ³	5.0	-
128 kg/m ³	8.0	8.0

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.