CERAMIC FIBER MODULE

Orient ceramic fibertech llp

Product Overview :

Ceramic fiber modules are high-efficiency insulation products made from folded and compressed ceramic fiber blankets. Designed for use in extreme temperature environments, these modules are typically pre-constructed with various anchoring systems for easy installation in furnaces, kilns, and other industrial equipment. Their modular design enhances insulation performance, reduces installation time, and provides excellent thermal stability and energy efficiency.

Key Points :

Efficient Thermal Insulation: Ceramic fiber modules offer superior insulation, minimizing heat loss even in high-temperature operations.

Ease of Installation: The modular design with pre-installed anchors simplifies installation, making it quicker and reducing labor costs.

High Durability: These modules maintain structural integrity under rapid temperature changes and mechanical stress, ensuring long-lasting performance.

Customization: Available in various densities, thicknesses, and sizes, ceramic fiber modules can be tailored to meet specific industrial needs.

Chemical Stability: Resistant to most chemicals, these modules provide reliable performance in harsh industrial environments.

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Applications:

Industrial Furnaces and Heaters: Provides consistent thermal insulation, enhancing the efficiency of heat treatment processes.

Kilns: Used in ceramic and glass industries, ensuring uniform temperature distribution and reducing energy consumption.

Power Generation: Used in boilers and heat recovery systems to prevent heat loss and improve energy efficiency.

Steel Industry: Essential for insulating electric arc furnaces, high-temperature equipment, contributing to improved product quality and process efficiency.

Advantages:

Lightweight and Durable: Easy to handle and install, with excellent resistance to thermal shock and mechanical stress.

Low Maintenance: These modules' robust design and high thermal stability reduce maintenance frequency, downtime, and costs.

Customizable Solutions: Modules can be customized in terms of size, density, and anchoring systems, ensuring a perfect fit for specific applications.

Technical Specifications:

Temperature : 1260°C(2300°F) and 1425°C(2597°F)

Density: Available in densities ranging from 128 to 192 kg/m^3.

Size and Thickness: Customizable; standard sizes include 12" x 12" (305mm x 305mm) with thickness options from 6" to 12" (152mm to 305mm).

*Also we have Folded Modules, Cerlock Modules and Anchor loc-3 Modules

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TECHNICAL SPECIFICATIONS :

Chemical Analysis	ACCEPTION CRITERIA	
	1200˚C	1425˚C
Al_2O_3 (%)	42 - 46	30 - 34
SiO_2 (%)	54 - 58	50 - 54
ZrO_2 (%)	-	14 - 18
Fe_2O_3 (%)	< 0.1	< 0.1
TiO_2 (%)	-	< 0.3
$K_2O + Na_2O$ (%)	< 0.2	< 0.2
Parameters	1260˚C	1425˚C
Thickness (mm)	125 to 305	125 to 305
Width (mm)	305	305
Length (mm)	305	305
Density (kg/m³)	128 to 190	128 to 190
Linear Shrinkage For 24 Hrs At (1200˚C)	<2.0%	<2.0%
Average Fibre Diameter (µm)	2.6 to 2.8	2.6 to 2.8
Longitudinal Tensile Strength PSI (kg/m³)	12 - 16	12 - 16

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