ORLOCK MODULE

Orient ceramic fibertech llp

Product Overview :

Orwool Cerlock Module (Sliding Type) is engineered to meet a broad range of application requirements across various heat-processing equipment. In accordance with specifications, the module is constructed using spun fibre blankets. The spinning technology produces long, durable fibres that contribute to the strength & stability of the needled blanket that enhance the strength, integrity, and its dimensional stability. The Cerlock Modules are manufactured in standard construction configurations of folded type & are available in a wide range of densities, thicknesses, and sizes. Designed for high reliability and better performance, these modules provide efficient and effective thermal management solutions for diverse industrial applications.

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 Module, Cerlock Module and Anchor loc-3 Module

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TECHNICAL SPECIFICATIONS :

Chemical Analysis	1260˚C	1425˚C
Al_2O_3 (%)	42 - 47	30 - 34
SiO_2 (%)	53 - 58	50 - 54
ZrO_2 (%)	-	14 - 18
Fe_2O_3 (%)	< 0.1	< 0.1
TiO_2 (%)	<0.3	<0.3
Leachable Chlorides, ppm	< 10	< 10

Physical Properties		
Color	White	White
Classification Temperature (˚C)	1260	1425
Melting Point (˚C)	1760	1760
Density (kg/m³)	128 / 160 / 180 / 192	128 / 160 / 180 / 192
Mean Fiber Dia (M)	2.6 to 3.4	2.6 to 3.4
Fiber Index (%)	48 min	48 min
Specific Gravity	2.65	2.65
Linear Shrinkage (%) For 24 Hrs		
1200˚C	3.0 Max	2.0 Max
1260˚C	3.5 Max	-
1400˚C	-	3.3 Max

Density (Kg/M³)	128	160	180	192
Thermal Conductivity , ASTM C-177 (W/mK)				
600˚C	0.12	0.16	0.15	0.14
800˚C	0.18	0.20	0.19	0.17
1000˚C	0.28	0.28	0.25	0.22
1200˚C	0.38	0.37	0.33	0.28

Thermal Conductivity figures are empirical values (average) based on experience.

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.

The maximum continuous use limit temperature for these products depends upon operating and application conditions. For certain applications operational temperature limits may be significantly reduced. For assistance or clarification please contact us

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AVAILABILITY :

Module Dimensions (mm)		Density (kg/m³)	Cerlock
Length	Width	Thickness	Per Carton
305	305	100	10
		125	8
		150	8
		175	6
		200	6
		225	4
		250	4
		275	4
		300	4

Other thicknesses / sizes may be available on request subject to minimum order requirement.

HANDLING INFORMATION

A Material Safety Data Sheet Has Been Issued Describing The Health, Safety And Environmental Properties Of This Product, Identifying The Potential Hazards And Giving Advice On Handling Precautions And Emergency Procedures. This Must Be Consulted And Fully Understood Before Handling, Storage Or Use.

Supplied by :

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.

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