

Zircar Refractory Composites RSBD-HD ALUMINA-SILICA INSULATION

Category : Ceramic , Oxide , Aluminum Oxide

Material Notes:

ZRCI Alumina-Silica Insulation Type RSBD-HD Board is a ceramic fiber insulation suitable for use to 1260°C (2300°C). It is a strong, rigid refractory structure of high temperature ceramic fibers and high purity inorganic binders. It offers low thermal conductivity, excellent thermal shock resistance and is an effective thermal insulator in numerous thermal process systems. It is also well-suited for applications experiencing vibration, mechanical stress and strong erosive forces. The excellent rigidity and modulus of rupture possessed by this board makes it strong and self-supporting, yet relatively lightweight and easy to cut or machine. This product's features allow for quick, efficient handling and high installation rates, thereby enabling fast turnaround times in a variety of industrial insulation applications. Once installed, it can help reduce energy costs and cycling times due to its high insulating capability, as well as serving to protect refractory surfaces from thermal shock. Type RSBD-HD Board exhibits excellent chemical stability, resisting attack by most corrosive agents. Exceptions are hydrofluoric, phosphoric, hydrochloric and sulfuric acids as well as concentrated alkalis. It will also resist oxidation and reduction to a certain point. If wet by water, steam or oil upon drying all properties will be restored. Information provided by ZIRCAR Refractory Composites, Inc. (ZRCI)

Order this product through the following link:

http://www.lookpolymers.com/polymer_Zircar-Refractory-Composites-RSBD-HD-ALUMINA-SILICA-INSULATION.php

Physical Properties	Metric	English	Comments
Density	0.419 g/cc	0.0151 lb/in ³	
Loss On Ignition	6.0 - 7.0 %	6.0 - 7.0 %	

Mechanical Properties	Metric	English	Comments
Modulus of Rupture	0.00210 GPa	0.305 ksi	parallel to thickness
	0.000870 GPa	0.126 ksi	parallel to thickness
Compressive Yield Strength	@Temperature 1010 °C, Time 86400 sec	@Temperature 1850 °F, Time 24.0 hour	
	0.240 MPa	34.8 psi	at 5% compression ,after 24 hrs at 1010°C, parallel to thickness
	0.400 MPa	58.0 psi	at 5% compression, parallel to thickness

Thermal Properties	Metric	English	Comments
Thermal Conductivity	0.110 W/m-K	0.763 BTU-in/hr-ft ² -°F	
	@Temperature 204 °C	@Temperature 399 °F	
	0.170 W/m-K	1.18 BTU-in/hr-ft ² -°F	
	@Temperature 649 °C	@Temperature 1200 °F	
	0.220 W/m-K	1.53 BTU-in/hr-ft ² -°F	

Thermal Properties	Metric @ Temperature 1010 °C	English @ Temperature 1850 °F	Comments
Maximum Service Temperature, Air	1260 °C	2300 °F	
Shrinkage	<= 5.00 % @ Temperature 1200 °C, Time 14400 sec	<= 5.00 % @ Temperature 2190 °F, Time 4.00 hour	

Component Elements Properties	Metric	English	Comments
Al2O3	60 - 65 %	60 - 65 %	
SiO2	10 - 15 %	10 - 15 %	

Electrical Properties	Metric	English	Comments
Dielectric Strength	1.06 kV/mm	27.0 kV/in	

Descriptive Properties	Value	Comments
Color	White	
Kaolin Clay, %	15 to 20	
Organic Content, %	5 to 10	

Contact Songhan Plastic Technology Co.,Ltd.

Website : www.lookpolymers.com

Email : sales@lookpolymers.com

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215,Fengxian District, Shanghai City,China