BNZ Materials Marinite® I&M High Temperature Structural Insulation

Category : Ceramic , Oxide

Material Notes:

Oven dried formulations of BNZ boards are used in a variety of heat insulating processes, fire protection and machined parts. Selection is commonly based on a balance between strength and insulating qualities. Examples include oven walls and linings, soldering insulation, fire doors, fire training burn buildings, cable trays, personnel protection, and as USCG-approved insulation for marine ships and off-shore rigs. Back-up insulation applications include ladles, torpedo cars and tundishes in the iron and steel industry, lime and cement plant rotary kilns, and aluminum die cast holding furnaces.Information provided by BNZ Materials Inc.

Order this product through the following link:
http://www.lookpolymers.com/polymer_BNZ-Materials-Marinite-IM-High-Temperature-Structural-Insulation.php

Physical Properties	Metric	English	Comments
Density	0.737 g/cc	0.0266 lb/in³	

Mechanical Properties	Metric	English	Comments
Modulus of Rupture	0.00550 GPa	0.798 ksi	
Compressive Yield Strength	6.89 MPa @Strain 5.00 %	1000 psi @Strain 5.00 %	

Thermal Properties	Metric	English	Comments
Thermal Conductivity	0.110 W/m-K @Temperature 316 °C	0.763 BTU-in/hr-ft²-°F @Temperature 601 °F	
	0.120 W/m-K @Temperature 204 °C	0.833 BTU-in/hr-ft²-°F @Temperature 399 °F	
	0.120 W/m-K @Temperature 427 °C	0.833 BTU-in/hr-ft²-°F @Temperature 801 °F	
	0.120 W/m-K @Temperature 538 °C	0.833 BTU-in/hr-ft²-°F @Temperature 1000 °F	
Shrinkage	0.40 % @Temperature 649 °C, Time 86400 sec	0.40 % @Temperature 1200 °F, Time 24.0 hour	Length/width
	1.4 % @Temperature 649 °C, Time 86400 sec	1.4 % @Temperature 1200 °F, Time 24.0 hour	Thickness

Electrical Properties	Metric	English	Comments
Volume Resistivity	9.80e+7 ohm-cm	9.80e+7 ohm-cm	ASTM D257
Dielectric Strength	1.77 kV/mm	45.0 kV/in	ASTM D495

Processing Properties	Metric	English	Comments
Moisture Content	3.0 %	3.0 %	

Descriptive Properties	Value	Comments
Screw Holding Strength	91 kg	at 7/8" penetration

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