

BNZ Materials Marinite® A Ceramic Board for Aluminum Contact

Category : Ceramic , Oxide

Material Notes:

These boards are heat treated formulations for use in conveying, containing and forming molten aluminum and other non-ferrous metals. Applications include holding furnace linings, tips for continuous casters, transition plates, rings, plugs, baffles, troughs, spouts, floats and filter boxes. Information provided by BNZ Materials Inc.

Order this product through the following link:

http://www.lookpolymers.com/polymer_BNZ-Materials-Marinite-A-Ceramic-Board-for-Aluminum-Contact.php

Physical Properties	Metric	English	Comments
Density	1.04 g/cc	0.0376 lb/in ³	

Mechanical Properties	Metric	English	Comments
Modulus of Rupture	0.00960 GPa	1.39 ksi	
Compressive Yield Strength	16.5 MPa @Strain 5.00 %	2400 psi @Strain 5.00 %	
Compressive Strength	20.7 MPa	3000 psi	ultimate load

Thermal Properties	Metric	English	Comments
Thermal Conductivity	0.280 W/m-K @Temperature 427 °C	1.94 BTU-in/hr-ft ² -°F @Temperature 801 °F	
	0.280 W/m-K @Temperature 538 °C	1.94 BTU-in/hr-ft ² -°F @Temperature 1000 °F	
Shrinkage	0.10 % @Temperature 732 °C, Time 86400 sec	0.10 % @Temperature 1350 °F, Time 24.0 hour	Length/width, Soaking Heat Changes
	0.80 % @Temperature 732 °C, Time 86400 sec	0.80 % @Temperature 1350 °F, Time 24.0 hour	Thickness, Soaking Heat Changes

Component Elements Properties	Metric	English	Comments
Loss on Ignition(%)	4.5 %	4.5 %	
	@Temperature 732 °C	@Temperature 1350 °F	

Processing Properties	Metric	English	Comments
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Moisture Content Processing Properties	2.5 % Metric	2.5 % English	Comments
Descriptive Properties		Value	Comments
Screw Holding Strength		109 kg	at 7/8" penetration

Contact Songhan Plastic Technology Co.,Ltd.

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