Pyrotek ISOMAG® 70 Structural Insulation

Category : Ceramic , Oxide , Magnesium Oxide , Silicon Oxide

Material Notes:

Isomag® 70 is magnesia silicate based formulation provides insulating properties similar to calcium silicate with good strength and dimensional stability up to 1000°C. ApplicationsTorpedo cars Ladles Tundishes Fume hoods Heat shields Aluminum furnaces Troughs Vacuum degassers AdvantagesLow heat losses at higher temperatures Low shrinkage at temperature use limit Highest strength of any high temperature insulating board High temperature rating Asbestos and ceramic fiber free Non wetted by molten aluminum Information provided by Pyrotek.

Order this product through the following link:
http://www.lookpolymers.com/polymer_Pyrotek-ISOMAG-70-Structural-Insulation.php

Physical Properties	Metric	English	Comments
Density	1.202 g/cc	0.04343 lb/in³	
Open Porosity	53.5 %	53.5 %	

Mechanical Properties	Metric	English	Comments
Elongation at Yield	1.5 % @Temperature 500 °C	1.5 % @Temperature 932 °F	at 6.9 MPA
Flexural Strength	13.1 MPa	1900 psi	
Compressive Strength	15.1 MPa	2190 psi	
	17.0 MPa @Strain 5.00 %, Temperature 500 °C	2470 psi @Strain 5.00 %, Temperature 932 °F	
	18.0 MPa @Strain 5.00 %, Temperature 300 °C	2610 psi @Strain 5.00 %, Temperature 572 °F	

Thermal Properties	Metric	English	Comments
Thermal Conductivity	0.230 W/m-K @Temperature 195 °C	1.60 BTU-in/hr-ft²-°F @Temperature 383 °F	
	0.240 W/m-K @Temperature 315 °C	1.67 BTU-in/hr-ft²-°F @Temperature 599 °F	
	0.310 W/m-K @Temperature 600 °C	2.15 BTU-in/hr-ft²-°F @Temperature 1110 °F	
Maximum Service Temperature, Air			Continuous use

Thermal Properties	Metric	English	Comments
	1000 °C 1050 °C	1830 °F 1920 °F	
Shrinkage	1.64 % @Temperature 1000 °C	1.64 % @Temperature 1830 °F	Linear
	4.00 % @Temperature 1000 °C	4.00 % @Temperature 1830 °F	Thickness

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