

Pyrotek M-14 Compressible/Insulating Boards

Category : Ceramic , Oxide , Aluminum Oxide , Silicon Oxide

Material Notes:

Applications Siphon gaskets Trough and ladle linings Tundishes Mill board substitute Advantages Resistant to chemical attack Excellent thermal shock resistance Slightly flexible Moderately compressible Information provided by Pyrotek.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Pyrotek-M-14-CompressibleInsulating-Boards.php

Physical Properties	Metric	English	Comments
Density	0.352 g/cc	0.0127 lb/in ³	
Loss On Ignition	6.0 %	6.0 %	

Mechanical Properties	Metric	English	Comments
Modulus of Rupture	0.000790 GPa @Treatment Temp. 815 °C	0.115 ksi @Treatment Temp. 1500 °F	
Compressive Strength	0.280 MPa	40.6 psi	to 10% deformation

Thermal Properties	Metric	English	Comments
Thermal Conductivity	0.0900 W/m-K @Temperature 240 °C	0.625 BTU-in/hr-ft ² -°F @Temperature 464 °F	
	0.100 W/m-K @Temperature 425 °C	0.694 BTU-in/hr-ft ² -°F @Temperature 797 °F	
	0.160 W/m-K @Temperature 870 °C	1.11 BTU-in/hr-ft ² -°F @Temperature 1600 °F	
Maximum Service Temperature, Air	1620 °C	2950 °F	Continuous

Component Elements Properties	Metric	English	Comments
Al ₂ O ₃	42 %	42 %	
SiO ₂	46 %	46 %	

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