

Pyrotek Pyrite B-3 Refractory Board

Category : Ceramic , Oxide , Silicon Oxide

Material Notes:

Pyrotek B-3 is a highly versatile calcium silicate board for use in a variety of machined shapes and general purpose applications. Among its uses, Pyrotek B-3 is established as the industry standard for high efficiency furnace insulation. Our machine shops are equipped with CNC tooling equipment to produce complex components to customer specifications. Applications Floats Machined spouts Baffle plates Dams Trough liners Transition plates Advantages Asbestos-free Low thermal conductivity Resistant to thermal shock Non-wetting Good machining characteristics Information provided by Pyrotek.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Pyrotek-Pyrite-B-3-Refractory-Board.php

Physical Properties	Metric	English	Comments
Density	0.850 g/cc	0.0307 lb/in ³	
Loss On Ignition	3.1 %	3.1 %	

Mechanical Properties	Metric	English	Comments
Flexural Strength	8.00 MPa	1160 psi	(C 203)
Compressive Strength	10.0 MPa	1450 psi	(C 165)

Thermal Properties	Metric	English	Comments
CTE, linear	16.0 µm/m-°C	8.89 µin/in-°F	
	@Temperature 20.0 °C	@Temperature 68.0 °F	
Thermal Conductivity	0.190 W/m-K	1.32 BTU-in/hr-ft ² -°F	(DIN 51046)+
	@Temperature 100 °C	@Temperature 212 °F	
	0.200 W/m-K	1.39 BTU-in/hr-ft ² -°F	(DIN 51046)+
	@Temperature 300 °C	@Temperature 572 °F	
	0.200 W/m-K	1.39 BTU-in/hr-ft ² -°F	(DIN 51046)+
	@Temperature 500 °C	@Temperature 932 °F	
Maximum Service Temperature, Air	800 °C	1470 °F	Continuous
Shrinkage	0.210 %	0.210 %	
	@Temperature 1000 °C, Time 86400 sec	@Temperature 1830 °F, Time 24.0 hour	Linear (C 356 60)+
	1.70 %	1.70 %	
	@Temperature 1000 °C,	@Temperature 1830 °F,	Thickness (C 356 60)+

Thermal Properties	Time 86400 sec Metric	Time 24.0 hour English	Comments
Component Elements Properties	Metric	English	Comments
Al2O3	1.0 %	1.0 %	
CaO	39.7 %	39.7 %	
Fe2O3	0.70 %	0.70 %	
SiO2	51.7 %	51.7 %	

Descriptive Properties	Value	Comments
Screw Grip (Pull) Penetration Depth	130 kg	22 mm
	50 kg	13 mm
	90 kg	19 mm

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