

Pyrotek Pyrite N-17 Refractory Board

Category : Ceramic , Oxide , Silicon Oxide

Material Notes:

Pyrotek N-17 is a graphite fiber reinforced, high purity, calcium silicate board developed exclusively for the non-ferrous casting industry. The patented formulation of Pyrotek N-17 makes it good in strength, low shrinkage and resistance to thermal shock. Our machine shops are equipped with CNC tooling equipment to produce complex components to customer specifications. Applications Transition plates Continuous caster tips Baffle plates Trough liners Floats Machined spouts Head boxes 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-N-17-Refractory-Board.php

Physical Properties	Metric	English	Comments
Density	0.801 g/cc	0.0289 lb/in ³	
Loss On Ignition	<= 8.0 %	<= 8.0 %	

Mechanical Properties	Metric	English	Comments
Modulus of Rupture	0.00800 GPa	1.16 ksi	
Compressive Strength	16.0 MPa	2320 psi	

Thermal Properties	Metric	English	Comments
CTE, linear	7.00 $\mu\text{m}/\text{m}\cdot\text{°C}$	3.89 $\mu\text{in}/\text{in}\cdot\text{°F}$	
	@Temperature 20.0 °C	@Temperature 68.0 °F	
Thermal Conductivity	0.103 W/m-K	0.715 BTU-in/hr-ft ² -°F	
	@Temperature 100 °C	@Temperature 212 °F	
	0.114 W/m-K	0.791 BTU-in/hr-ft ² -°F	
	@Temperature 200 °C	@Temperature 392 °F	
	0.124 W/m-K	0.861 BTU-in/hr-ft ² -°F	
	@Temperature 300 °C	@Temperature 572 °F	
	0.133 W/m-K	0.923 BTU-in/hr-ft ² -°F	
	@Temperature 400 °C	@Temperature 752 °F	
Maximum Service Temperature, Air	850 °C	1560 °F	Continuous
Shrinkage	0.350 %	0.350 %	Linear
	@Temperature 1000 °C, Time 86400 sec	@Temperature 1830 °F, Time 24.0 hour	

Thermal Properties	Metric	English	Comments
	@Temperature 1000 °C, Time 86400 sec	@Temperature 1830 °F, Time 24.0 hour	Thickness

Component Elements Properties	Metric	English	Comments
Al2O3	0.30 %	0.30 %	
CaO	43.5 %	43.5 %	
Fe2O3	0.30 %	0.30 %	
SiO2	49.4 %	49.4 %	

Descriptive Properties	Value	Comments
Screw Grip (Pull) Penetration Depth	110 kg	19 mm
	115 kg	22 mm

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