

## Pyrotek Pyrite N-14 Refractory Board

Category : Ceramic , Oxide , Silicon Oxide

### Material Notes:

Pyrotek N-14 is a fiberglass reinforced calcium silicate board specifically developed for the non-ferrous industry. The superior strength and unique formulation of Pyrotek N-14 makes it the preferred material for precision machined parts. Our machine shops are equipped with CNC tooling equipment to produce complex components to customer specifications. Applications Dip tubes Pouring spouts Hot-top rings Stopper pins End dams Floats Launderers Advantages Asbestos-free Low thermal conductivity Resistant to thermal shock Non-wetting Excellent machining characteristics Information provided by Pyrotek.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Pyrotek-Pyrite-N-14-Refractory-Board.php](http://www.lookpolymers.com/polymer_Pyrotek-Pyrite-N-14-Refractory-Board.php)

Physical Properties	Metric	English	Comments
Density	0.840 g/cc	0.0303 lb/in <sup>3</sup>	
Loss On Ignition	<= 8.0 %	<= 8.0 %	

Mechanical Properties	Metric	English	Comments
Modulus of Rupture	0.00700 GPa	1.02 ksi	
Compressive Strength	17.0 MPa	2470 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	0.120 W/m-K	0.833 BTU-in/hr-ft <sup>2</sup> -°F	
	@Temperature 200 °C	@Temperature 392 °F	
	0.121 W/m-K	0.840 BTU-in/hr-ft <sup>2</sup> -°F	
	@Temperature 300 °C	@Temperature 572 °F	
Maximum Service Temperature, Air	0.123 W/m-K	0.854 BTU-in/hr-ft <sup>2</sup> -°F	
	@Temperature 100 °C	@Temperature 212 °F	
Shrinkage	0.125 W/m-K	0.868 BTU-in/hr-ft <sup>2</sup> -°F	
	@Temperature 400 °C	@Temperature 752 °F	
Maximum Service Temperature, Air	850 °C	1560 °F	Continuous
Shrinkage	0.490 %	0.490 %	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	0.50 %	0.50 %	
CaO	41.9 %	41.9 %	
Fe2O3	0.30 %	0.30 %	
SiO2	51.6 %	51.6 %	

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

## Contact Songhan Plastic Technology Co.,Ltd.

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