

Pyrotek B-3A REFRACTORY BOARD

Category : Ceramic , Oxide , Silicon Oxide

Material Notes:

Pyrotek B-3A is a high density calcium silicate board specifically designed for demanding applications such as holding furnaces, launder linings and baffle plates. Its high density and superior hardness make it well suited to withstand the mechanical abuse typical in many foundry applications. Applications: Furnace linings, Trough liners, Baffle plates. Advantages: Non-wetting, Excellent thermal insulation, Crack resistant, Durable, Minimal shrinkage. Information provided by Pyrotek.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Pyrotek-B-3A-REFRACTORY-BOARD.php

Physical Properties	Metric	English	Comments
Density	0.970 g/cc	0.0350 lb/in ³	
Loss On Ignition	2.7 %	2.7 %	

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	65	65	
Flexural Strength	10.0 MPa	1450 psi	
Compressive Strength	18.0 MPa	2610 psi	

Thermal Properties	Metric	English	Comments
CTE, linear	16.0 $\mu\text{m/m-}^\circ\text{C}$	8.89 $\mu\text{in/in-}^\circ\text{F}$	
	@Temperature 20.0 $^\circ\text{C}$	@Temperature 68.0 $^\circ\text{F}$	
Thermal Conductivity	0.270 W/m-K	1.87 BTU-in/hr-ft ² - $^\circ\text{F}$	
	@Temperature 400 $^\circ\text{C}$	@Temperature 752 $^\circ\text{F}$	
	0.270 W/m-K	1.87 BTU-in/hr-ft ² - $^\circ\text{F}$	
	@Temperature 600 $^\circ\text{C}$	@Temperature 1110 $^\circ\text{F}$	
	0.280 W/m-K	1.94 BTU-in/hr-ft ² - $^\circ\text{F}$	
	@Temperature 800 $^\circ\text{C}$	@Temperature 1470 $^\circ\text{F}$	
Maximum Service Temperature, Air	1000 $^\circ\text{C}$	1830 $^\circ\text{F}$	Continuous

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