

BNZ Materials BNZ-3000 Insulating Firebrick

Category : Ceramic , Oxide , Aluminum Oxide

Material Notes:

BNZ produces many types of Insulating Fire Brick (IFB) for use in applications from 2,000°F (1,093°C) to 3,200°F (1,760°C). Each type is formulated to meet specific thermal and physical requirements and after firing is machined to precise tolerances. Made from high purity refractory clays and other ceramic raw materials, these IFB contain a carefully graded organic filler which is burned out during manufacture to give a uniform controlled pore structure. Information provided by BNZ Materials Inc.

Order this product through the following link:

http://www.lookpolymers.com/polymer_BNZ-Materials-BNZ-3000-Insulating-Firebrick.php

Physical Properties	Metric	English	Comments
Density	1.04 g/cc	0.0376 lb/in ³	ASTM C134
Deformation	0.30 % @Temperature 1316 °C, Time 5400 sec	0.30 % @Temperature 2401 °F, Time 1.50 hour	10 psi load, Hot Load Strength; ASTM C16

Mechanical Properties	Metric	English	Comments
Modulus of Rupture	0.00170 GPa	0.247 ksi	ASTM C133
Compressive Strength	3.00 MPa	435 psi	Cold Crush Strength; ASTM C133

Thermal Properties	Metric	English	Comments
CTE, linear	6.10 μm/m-°C @Temperature 20.0 - 1093 °C	3.39 μin/in-°F @Temperature 68.0 - 1999 °F	
Thermal Conductivity	0.400 W/m-K @Temperature 260 °C	2.78 BTU-in/hr-ft ² -°F @Temperature 500 °F	ASTM C182
	0.420 W/m-K @Temperature 538 °C	2.91 BTU-in/hr-ft ² -°F @Temperature 1000 °F	ASTM C182
	0.450 W/m-K @Temperature 816 °C	3.12 BTU-in/hr-ft ² -°F @Temperature 1500 °F	ASTM C182
	0.480 W/m-K @Temperature 1093 °C	3.33 BTU-in/hr-ft ² -°F @Temperature 1999 °F	ASTM C182
Maximum Service Temperature, Air	1649 °C	3000 °F	Normal oxidizing atmosphere
	0.70 %	0.70 %	Permanent Linear Change; ASTM

Shrinkage Thermal Properties	@Temperature 1621 °C, Time 36400 sec	English @Temperature 2950 °F, Time 24.0 hour	C210 Comments
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Component Elements Properties	Metric	English	Comments
Al2O3	69.9 %	69.9 %	
CaO	0.20 %	0.20 %	
Fe2O3	0.30 %	0.30 %	
MgO	0.10 %	0.10 %	
Na2O	0.20 %	0.20 %	Includes K ₂ O
SiO2	28.1 %	28.1 %	
TiO2	1.2 %	1.2 %	

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