

BNZ Materials BNZ-32 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-32-Insulating-Firebrick.php

Physical Properties	Metric	English	Comments
Density	1.20 g/cc	0.0434 lb/in ³	ASTM C134
Deformation	0.20 % @Temperature 1316 °C, Time 5400 sec	0.20 % @Temperature 2401 °F, Time 1.50 hour	10 psi load, Hot Load Strength; ASTM C16

Mechanical Properties	Metric	English	Comments
Modulus of Rupture	0.00210 GPa	0.305 ksi	ASTM C133
Compressive Strength	3.10 MPa	450 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	0.510 W/m-K @Temperature 816 °C	3.54 BTU-in/hr-ft ² -°F @Temperature 1500 °F	ASTM C182
	0.560 W/m-K @Temperature 260 °C	3.89 BTU-in/hr-ft ² -°F @Temperature 500 °F	ASTM C182
	0.590 W/m-K @Temperature 538 °C	4.09 BTU-in/hr-ft ² -°F @Temperature 1000 °F	ASTM C182
	0.620 W/m-K @Temperature 1093 °C	4.30 BTU-in/hr-ft ² -°F @Temperature 1999 °F	ASTM C182
Maximum Service Temperature, Air	1760 °C	3200 °F	Normal oxidizing atmosphere
	0.40 %	0.40 %	Permanent Linear Change; ASTM

Shrinkage Thermal Properties	@Temperature 1732 °C, Time 86400 sec	English @Temperature 3150 °F, Time 24.0 hour	C210 Comments
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Component Elements Properties	Metric	English	Comments
Al2O3	78.3 %	78.3 %	
CaO	0.10 %	0.10 %	
Fe2O3	0.20 %	0.20 %	
MgO	0.10 %	0.10 %	
Na2O	0.10 %	0.10 %	Includes K₂O
SiO2	20.7 %	20.7 %	
TiO2	0.50 %	0.50 %	

Contact Songhan Plastic Technology Co.,Ltd.

Website : www.lookpolymers.com

Email : sales@lookpolymers.com

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215,Fengxian District, Shanghai City,China