

BNZ Materials BNZP-23 Insulating Firebrick (French Grade)

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-BNZP-23-Insulating-Firebrick-French-Grade.php

Physical Properties	Metric	English	Comments
Density	0.650 g/cc	0.0235 lb/in ³	ASTM C134

Mechanical Properties	Metric	English	Comments
Compressive Strength	2.00 MPa	290 psi	Cold Crush Strength; ASTM C133

Thermal Properties	Metric	English	Comments
CTE, linear	6.30 $\mu\text{m}/\text{m}\cdot\text{°C}$	3.50 $\mu\text{in}/\text{in}\cdot\text{°F}$	
	@Temperature 20.0 - 1000 °C	@Temperature 68.0 - 1830 °F	
Thermal Conductivity	0.170 W/m-K	1.18 BTU-in/hr-ft ² -°F	ASTM C182
	@Temperature 200 °C	@Temperature 392 °F	
	0.190 W/m-K	1.32 BTU-in/hr-ft ² -°F	ASTM C182
	@Temperature 400 °C	@Temperature 752 °F	
	0.220 W/m-K	1.53 BTU-in/hr-ft ² -°F	ASTM C182
	@Temperature 600 °C	@Temperature 1110 °F	
	0.260 W/m-K	1.80 BTU-in/hr-ft ² -°F	ASTM C182
	@Temperature 800 °C	@Temperature 1470 °F	
	0.300 W/m-K	2.08 BTU-in/hr-ft ² -°F	ASTM C182
	@Temperature 1000 °C	@Temperature 1830 °F	
Maximum Service Temperature, Air	1300 °C	2370 °F	
Shrinkage	0.50 %	0.50 %	Permanent Linear Change; ASTM C210
	@Temperature 1300 °C, Time 43200 sec	@Temperature 2370 °F, Time 12.0 hour	

Descriptive Properties	Value	Comments
Composition (%)	0.5	CaO + MgO
	1.5	Fe ₂ O ₃ + TiO ₂
	4	Na ₂ O + K ₂ O
	91.9	Al ₂ O ₃ + SiO ₂

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