

BNZ Materials Bazelite 2000 Insulating Castable

Category : Ceramic , Oxide , Silicon Oxide

Material Notes:

BNZ manufactures a variety of insulating and dense castable refractories to meet the exacting needs of the high temperature processing industries. These hydraulic setting products are suitable for installation by various methods including gunning, casting or slap-troweling. Each product is specifically formulated to economically obtain the desired properties for the application and service temperature for which it is intended. Information provided by BNZ Materials Inc.

Order this product through the following link:

http://www.lookpolymers.com/polymer_BNZ-Materials-Bazelite-2000-Insulating-Castable.php

Physical Properties	Metric	English	Comments
Density	1.03 g/cc	0.0370 lb/in ³	Fired at 5 hrs at 816°C

Mechanical Properties	Metric	English	Comments
Modulus of Rupture	0.000460 GPa	0.0667 ksi	Fired; ASTM C258
	@Temperature 540 °C	@Temperature 1000 °F	
	0.000620 GPa	0.0899 ksi	ASTM C258
	@Temperature 815 °C	@Temperature 1500 °F	
	0.000620 GPa	0.0899 ksi	ASTM C258
	@Temperature 1095 °C	@Temperature 2003 °F	
	0.00103 GPa	0.149 ksi	Dried; ASTM C258
	@Temperature 104 °C	@Temperature 219 °F	
Compressive Strength	2.34 MPa	340 psi	
	@Temperature 1095 °C	@Temperature 2003 °F	
	2.90 MPa	420 psi	
	@Temperature 815 °C	@Temperature 1500 °F	
	2.96 MPa	430 psi	Cold Crush Strength; Fired at 540°C
	@Treatment Temp. 540 °C	@Treatment Temp. 1000 °F	
	4.14 MPa	600 psi	Cold Crush Strength; Dried 104°C
	@Treatment Temp. 104 °C	@Treatment Temp. 219 °F	

Thermal Properties	Metric	English	Comments
Maximum Service Temperature, Air	1149 °C	2100 °F	

Thermal Properties	Metric	English	Comments
Shrinkage	@Temperature 540 °C	@Temperature 1000 °F	Permanent Linear Change; ASTM C210
	0.20 %	0.20 %	Permanent Linear Change; ASTM C210
	@Temperature 815 °C	@Temperature 1500 °F	
	0.30 %	0.30 %	Permanent Linear Change; ASTM C210
	@Temperature 1095 °C	@Temperature 2003 °F	

Component Elements Properties	Metric	English	Comments
Al ₂ O ₃	34 %	34 %	
CaO	15.8 %	15.8 %	
Fe ₂ O ₃	6.5 %	6.5 %	
MgO	0.30 %	0.30 %	
Na ₂ O	0.80 %	0.80 %	Includes K ₂ O
SiO ₂	40.1 %	40.1 %	
TiO ₂	1.9 %	1.9 %	

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