

BNZ Materials Bazelite 2600 LI Insulating Castable

Category : Ceramic , Oxide , Aluminum Oxide

Material Notes:

Bazelite 2600 LI is a low iron, high purity castable for service to 2600°F (1427°C) in controlled atmosphere applications. Recommended for casting monolithic shapes and furnace linings. Information provided by BNZ Materials Inc.

Order this product through the following link:

http://www.lookpolymers.com/polymer_BNZ-Materials-Bazelite-2600-LI-Insulating-Castable.php

Physical Properties	Metric	English	Comments
Density	1.15 g/cc	0.0417 lb/in ³	Fired at 5 hrs at 816°C

Mechanical Properties	Metric	English	Comments
Modulus of Rupture	0.000690 GPa	0.100 ksi	ASTM C268
	@Temperature 1260 °C	@Temperature 2300 °F	
	0.000760 GPa	0.110 ksi	ASTM C268
	@Temperature 815 °C	@Temperature 1500 °F	
	0.000830 GPa	0.120 ksi	ASTM C268
	@Temperature 1095 °C	@Temperature 2003 °F	
	0.00110 GPa	0.160 ksi	Fired; ASTM C268
@Temperature 540 °C	@Temperature 1000 °F		
Compressive Strength	0.00165 GPa	0.239 ksi	Dried; ASTM C268
	@Temperature 104 °C	@Temperature 219 °F	
	0.00207 GPa	0.300 ksi	ASTM C268
	@Temperature 1371 °C	@Temperature 2500 °F	
	4.83 MPa	700 psi	Cold Crush Strength
	@Temperature 815 °C	@Temperature 1500 °F	
	4.83 MPa	700 psi	Cold Crush Strength
	@Temperature 1095 °C	@Temperature 2003 °F	
4.83 MPa	700 psi	Cold Crush Strength	
@Temperature 1260 °C	@Temperature 2300 °F		
4.83 MPa	700 psi	Cold Crush Strength	
@Temperature 1371 °C	@Temperature 2500 °F		
4.83 MPa	700 psi		

Mechanical Properties	Metric @ Treatment Temp. 104 °C	English @ Treatment Temp. 219 °F	Comments Cold Crush Strength; Dried 104°C
	6.89 MPa	1000 psi	
	@Treatment Temp. 540 °C	@Treatment Temp. 1000 °F	Cold Crush Strength; Dried 104°C

Thermal Properties	Metric	English	Comments
Maximum Service Temperature, Air	1427 °C	2601 °F	
Shrinkage	0.20 %	0.20 %	Permanent Linear Change; ASTM C210
	@Temperature 540 °C	@Temperature 1000 °F	
	0.20 %	0.20 %	Permanent Linear Change; ASTM C210
	@Temperature 815 °C	@Temperature 1500 °F	
	0.20 %	0.20 %	Permanent Linear Change; ASTM C210
	@Temperature 1095 °C	@Temperature 2003 °F	
0.50 %	0.50 %	Permanent Linear Change; ASTM C210	
@Temperature 1260 °C	@Temperature 2300 °F		
2.1 %	2.1 %	Permanent Linear Change; ASTM C210	
@Temperature 1371 °C	@Temperature 2500 °F		

Component Elements Properties	Metric	English	Comments
Al2O3	51 %	51 %	
CaO	4.7 %	4.7 %	
Fe2O3	0.80 %	0.80 %	
MgO	0.10 %	0.10 %	
Na2O	0.10 %	0.10 %	Includes K ₂ O
SiO2	40.1 %	40.1 %	
TiO2	1.2 %	1.2 %	

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