

BNZ Materials Bazelite 2100 Insulating Castable

Category : Ceramic , Oxide , Silicon Oxide

Material Notes:

Bazelite 2100 is a general purpose lightweight castable for use as an exposed hot face refractory or as a very thermally efficient back-up to a dense refractory lining. Can be installed by casting, gunning or slap-troweling. Information provided by BNZ Materials Inc.

Order this product through the following link:

http://www.lookpolymers.com/polymer_BNZ-Materials-Bazelite-2100-Insulating-Castable.php

Physical Properties	Metric	English	Comments
Density	1.04 g/cc	0.0376 lb/in ³	Fired at 5 hrs at 816°C

Mechanical Properties	Metric	English	Comments
Modulus of Rupture	0.000830 GPa	0.120 ksi	Fired; ASTM C268
	@Temperature 540 °C	@Temperature 1000 °F	
	0.000900 GPa	0.131 ksi	ASTM C268
	@Temperature 1095 °C	@Temperature 2003 °F	
0.00103 GPa	0.149 ksi	ASTM C268	
@Temperature 815 °C	@Temperature 1500 °F		
Compressive Strength	0.00110 GPa	0.160 ksi	Dried; ASTM C268
	@Temperature 104 °C	@Temperature 219 °F	
	2.90 MPa	420 psi	Cold Crush Strength
	@Temperature 1095 °C	@Temperature 2003 °F	
	3.93 MPa	570 psi	Cold Crush Strength
	@Temperature 815 °C	@Temperature 1500 °F	
2.69 MPa	390 psi	Cold Crush Strength; Dried 104°C	
@Treatment Temp. 540 °C	@Treatment Temp. 1000 °F		
2.76 MPa	400 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	
Shrinkage	0.20 %	0.20 %	Permanent Linear Change; ASTM C210

Thermal Properties	@Temperature 540 °C Metric	@Temperature 1000 °F English	Comments
	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	

Component Elements Properties	Metric	English	Comments
Al2O3	35.3 %	35.3 %	
CaO	16.9 %	16.9 %	
Fe2O3	4.0 %	4.0 %	
MgO	0.50 %	0.50 %	
Na2O	1.1 %	1.1 %	Includes K ₂ O
SiO2	40.5 %	40.5 %	
TiO2	1.7 %	1.7 %	

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