

BNZ Materials Blazecrete 3000 G Dense Castable

Category : Ceramic , Oxide , Aluminum Oxide

Material Notes:

Blazecrete 3000 G is high alumina castable for service to 3000°F (1667°C). Used in building new and repairing old refractory linings, for gunning. Information provided by BNZ Materials Inc.

Order this product through the following link:

http://www.lookpolymers.com/polymer_BNZ-Materials-Blazecrete-3000-G-Dense-Castable.php

Physical Properties	Metric	English	Comments
Density	2.08 g/cc	0.0752 lb/in ³	

Mechanical Properties	Metric	English	Comments
Modulus of Rupture	0.00690 GPa	1.00 ksi	At Use Limit; ASTM C268
	0.000700 GPa	0.102 ksi	Fired; ASTM C268
	@Temperature 540 °C	@Temperature 1000 °F	
	0.000700 GPa	0.102 ksi	ASTM C268
	@Temperature 815 °C	@Temperature 1500 °F	
	0.000900 GPa	0.131 ksi	ASTM C268
	@Temperature 1095 °C	@Temperature 2003 °F	
	0.00140 GPa	0.203 ksi	Dried; ASTM C268
	@Temperature 104 °C	@Temperature 219 °F	
	0.00140 GPa	0.203 ksi	ASTM C268
	@Temperature 1260 °C	@Temperature 2300 °F	
Compressive Strength	0.00170 GPa	0.247 ksi	ASTM C268
	@Temperature 1371 °C	@Temperature 2500 °F	
	6.20 MPa	899 psi	Cold Crush Strength
	@Temperature 815 °C	@Temperature 1500 °F	
	6.20 MPa	899 psi	Cold Crush Strength
	@Temperature 1095 °C	@Temperature 2003 °F	
	8.30 MPa	1200 psi	Cold Crush Strength
	@Temperature 1260 °C	@Temperature 2300 °F	
	10.3 MPa	1490 psi	Cold Crush Strength

Mechanical Properties	@Temperature 1371 °C Metric	@Temperature 2500 °F English	Comments
	34.5 MPa	5000 psi	Cold Crush Strength; At Use Limit
	@Temperature 1667 °C	@Temperature 3033 °F	
	7.60 MPa	1100 psi	Cold Crush Strength; Dried 104°C
	@Treatment Temp. 540 °C	@Treatment Temp. 1000 °F	
	8.30 MPa	1200 psi	Cold Crush Strength; Dried 104°C
	@Treatment Temp. 104 °C	@Treatment Temp. 219 °F	

Thermal Properties	Metric	English	Comments
Maximum Service Temperature, Air	1649 °C	3000 °F	
Shrinkage	1.0 %	1.0 %	Permanent Linear Change at Use Limit; ASTM C210
	0.10 %	0.10 %	Permanent Linear Change; ASTM C210
	@Temperature 104 °C	@Temperature 219 °F	
	0.10 %	0.10 %	Permanent Linear Change; ASTM C210
	@Temperature 540 °C	@Temperature 1000 °F	
	0.10 %	0.10 %	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	
	0.50 %	0.50 %	Permanent Linear Change; ASTM C210
	@Temperature 1260 °C	@Temperature 2300 °F	
	0.90 %	0.90 %	Permanent Linear Change; ASTM C210
	@Temperature 1371 °C	@Temperature 2500 °F	

Component Elements Properties	Metric	English	Comments
Al2O3	53.9 %	53.9 %	
CaO	2.0 %	2.0 %	
Fe2O3	1.7 %	1.7 %	
SiO2	38 %	38 %	
TiO2	2.6 %	2.6 %	

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