

BNZ Materials Blazecrete 3000 Dense Castable

Category : Ceramic , Oxide , Aluminum Oxide

Material Notes:

Blazecrete 3000 is a high alumina, high strength, general purpose castable for service to 3000°F (1667°C). Used for casting burner blocks, door linings, car tops, crucible furnace linings and special shapes. High purity for special furnace atmospheres. Information provided by BNZ Materials Inc.

Order this product through the following link:

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

Physical Properties	Metric	English	Comments
Density	2.16 g/cc	0.0781 lb/in ³	

Mechanical Properties	Metric	English	Comments
Modulus of Rupture	0.00690 GPa	1.00 ksi	At Use Limit; ASTM C268
	0.00210 GPa	0.305 ksi	ASTM C268
	@Temperature 815 °C	@Temperature 1500 °F	
	0.00210 GPa	0.305 ksi	ASTM C268
	@Temperature 1095 °C	@Temperature 2003 °F	
	0.00280 GPa	0.406 ksi	Fired; ASTM C268
	@Temperature 540 °C	@Temperature 1000 °F	
	0.00340 GPa	0.493 ksi	ASTM C268
	@Temperature 1260 °C	@Temperature 2300 °F	
	0.00480 GPa	0.696 ksi	Dried; ASTM C268
	@Temperature 104 °C	@Temperature 219 °F	
Compressive Strength	0.00550 GPa	0.798 ksi	ASTM C268
	@Temperature 1371 °C	@Temperature 2500 °F	
	18.6 MPa	2700 psi	Cold Crush Strength
	@Temperature 1095 °C	@Temperature 2003 °F	
	21.4 MPa	3100 psi	Cold Crush Strength
	@Temperature 1260 °C	@Temperature 2300 °F	
	25.5 MPa	3700 psi	Cold Crush Strength
	@Temperature 815 °C	@Temperature 1500 °F	
	49.0 MPa	7110 psi	

Mechanical Properties	Metric @ Temperature 1371 °C	English @ Temperature 2500 °F	Cold Crush Strength Comments
	63.4 MPa	9200 psi	Cold Crush Strength; At Use Limit
	@Temperature 1667 °C	@Temperature 3033 °F	
	28.9 MPa	4190 psi	Cold Crush Strength; Dried 104°C
	@Treatment Temp. 104 °C	@Treatment Temp. 219 °F	
	29.6 MPa	4290 psi	Cold Crush Strength; Dried 104°C
	@Treatment Temp. 540 °C	@Treatment Temp. 1000 °F	

Thermal Properties	Metric	English	Comments
Maximum Service Temperature, Air	1649 °C	3000 °F	
Shrinkage	0.00 %	0.00 %	Permanent Linear Change; ASTM C210
	@Temperature 104 °C	@Temperature 219 °F	
	-0.400 - 0.40 %	-0.400 - 0.40 %	Permanent Linear Change
	@Temperature 1260 °C	@Temperature 2300 °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	
	0.10 %	0.10 %	Permanent Linear Change; ASTM C210
	@Temperature 1095 °C	@Temperature 2003 °F	
	0.70 %	0.70 %	Permanent Linear Change; ASTM C210
	@Temperature 1371 °C	@Temperature 2500 °F	
	1.0 %	1.0 %	Permanent Linear Change at Use Limit; ASTM C210
	@Temperature 1667 °C	@Temperature 3033 °F	

Component Elements Properties	Metric	English	Comments
Al2O3	47.6 %	47.6 %	
CaO	4.8 %	4.8 %	
Fe2O3	1.8 %	1.8 %	
MgO	0.20 %	0.20 %	

Component Elements Properties	Metric	English	Comments
SiO2	44 %	44 %	
TiO2	1.3 %	1.3 %	

Contact Songhan Plastic Technology Co.,Ltd.

Website : www.lookpolymers.com
Email : sales@lookpolymers.com
Tel : +86 021-51131842
Mobile : +86 13061808058
Skype : lookpolymers
Address : United North Road 215,Fengxian District, Shanghai City,China