

BNZ Materials Blazecrete 3200 Dense Castable

Category : Ceramic , Oxide , Aluminum Oxide

Material Notes:

Blazecrete 3200 is a high alumina castable for service to 3200°F (1778°C). It has good volume stability, extremely high modulus of rupture and crushing strength, and is of high purity for special furnace atmospheres. Designed for use in casting burner blocks, roof centers in electric arc furnaces, continuous casting tundish covers, incinerators, and other areas where these extremely high temperatures are encountered. Information provided by BNZ Materials Inc.

Order this product through the following link:

http://www.lookpolymers.com/polymer_BNZ-Materials-Blazecrete-3200-Dense-Castable.php

Physical Properties	Metric	English	Comments
Density	2.39 g/cc	0.0862 lb/in ³	

Mechanical Properties	Metric	English	Comments
Modulus of Rupture	0.00830 GPa	1.20 ksi	At Use Limit; ASTM C268
	0.00480 GPa	0.696 ksi	Fired; ASTM C268
	@Temperature 540 °C	@Temperature 1000 °F	
	0.00480 GPa	0.696 ksi	ASTM C268
	@Temperature 815 °C	@Temperature 1500 °F	
	0.00480 GPa	0.696 ksi	ASTM C268
	@Temperature 1095 °C	@Temperature 2003 °F	
Compressive Strength	0.00690 GPa	1.00 ksi	Dried; ASTM C268
	@Temperature 104 °C	@Temperature 219 °F	
	0.00830 GPa	1.20 ksi	ASTM C268
	@Temperature 1260 °C	@Temperature 2300 °F	
	0.00960 GPa	1.39 ksi	ASTM C268
	@Temperature 1371 °C	@Temperature 2500 °F	
Compressive Strength	26.9 MPa	3900 psi	Cold Crush Strength
	@Temperature 1260 °C	@Temperature 2300 °F	
	29.6 MPa	4290 psi	Cold Crush Strength
	@Temperature 1095 °C	@Temperature 2003 °F	
	37.9 MPa	5500 psi	Cold Crush Strength
	@Temperature 1371 °C	@Temperature 2500 °F	

Mechanical Properties	Metric	English	Comments
	@Temperature 815 °C	@Temperature 1500 °F	
	53.8 MPa	7800 psi	Cold Crush Strength; At Use Limit
	@Temperature 1778 °C	@Temperature 3232 °F	
	36.5 MPa	5290 psi	Cold Crush Strength; Dried 104°C
	@Treatment Temp. 540 °C	@Treatment Temp. 1000 °F	
	57.9 MPa	8400 psi	Cold Crush Strength; Dried 104°C
	@Treatment Temp. 104 °C	@Treatment Temp. 219 °F	

Thermal Properties	Metric	English	Comments
Maximum Service Temperature, Air	1760 °C	3200 °F	

Component Elements Properties	Metric	English	Comments
Al2O3	53 %	53 %	
CaO	2.7 %	2.7 %	
Fe2O3	0.60 %	0.60 %	
MgO	0.10 %	0.10 %	
SiO2	39.9 %	39.9 %	
TiO2	1.5 %	1.5 %	

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