

## BNZ Materials Blazecrete 2800 Dense Castable

Category : Ceramic , Oxide , Aluminum Oxide

### Material Notes:

Blazecrete 2800 is an economical, high alumina refractory for service to 2800°F (1556°C). Suitable for door linings, curbs and covers, pre-cast shapes, grey iron ladles, aluminum reverberatory furnace upper side walls and roofs. Information provided by BNZ Materials Inc.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_BNZ-Materials-Blazecrete-2800-Dense-Castable.php](http://www.lookpolymers.com/polymer_BNZ-Materials-Blazecrete-2800-Dense-Castable.php)

Physical Properties	Metric	English	Comments
Density	2.05 g/cc	0.0741 lb/in <sup>3</sup>	

Mechanical Properties	Metric	English	Comments
Modulus of Rupture	0.00620 GPa	0.899 ksi	At Use Limit; ASTM C268
	0.00100 GPa	0.145 ksi	ASTM C268
	@Temperature 815 °C	@Temperature 1500 °F	
	0.00140 GPa	0.203 ksi	Fired; ASTM C268
	@Temperature 540 °C	@Temperature 1000 °F	
	0.00140 GPa	0.203 ksi	ASTM C268
	@Temperature 1095 °C	@Temperature 2003 °F	
	0.00210 GPa	0.305 ksi	ASTM C268
	@Temperature 1260 °C	@Temperature 2300 °F	
	0.00340 GPa	0.493 ksi	Dried; ASTM C268
@Temperature 104 °C	@Temperature 219 °F		
Compressive Strength	0.00340 GPa	0.493 ksi	ASTM C268
	@Temperature 1371 °C	@Temperature 2500 °F	
	9.00 MPa	1310 psi	Cold Crush Strength
	@Temperature 1095 °C	@Temperature 2003 °F	
	15.2 MPa	2200 psi	Cold Crush Strength
@Temperature 1260 °C	@Temperature 2300 °F		
17.2 MPa	2490 psi	Cold Crush Strength	
@Temperature 815 °C	@Temperature 1500 °F		
35.1 MPa	5090 psi	Cold Crush Strength	

Mechanical Properties	@Temperature 1371 °C Metric	@Temperature 2500 °F English	Comments
	48.8 MPa	7080 psi	Cold Crush Strength; At Use Limit
	@Temperature 1556 °C	@Temperature 2833 °F	
	15.2 MPa	2200 psi	Cold Crush Strength; Dried 104°C
	@Treatment Temp. 540 °C	@Treatment Temp. 1000 °F	
	20.7 MPa	3000 psi	Cold Crush Strength; Dried 104°C
	@Treatment Temp. 104 °C	@Treatment Temp. 219 °F	

Thermal Properties	Metric	English	Comments
Maximum Service Temperature, Air	1537 °C	2799 °F	
Shrinkage	0.00 %	0.00 %	Permanent Linear Change; ASTM C210
	@Temperature 104 °C	@Temperature 219 °F	
	0.00 %	0.00 %	Permanent Linear Change; ASTM C210
	@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	
	0.20 %	0.20 %	Permanent Linear Change; ASTM C210
	@Temperature 1095 °C	@Temperature 2003 °F	
	1.0 %	1.0 %	Permanent Linear Change at Use Limit
	@Temperature 1556 °C	@Temperature 2833 °F	

Component Elements Properties	Metric	English	Comments
Al2O3	45.5 %	45.5 %	
CaO	5.6 %	5.6 %	
Fe2O3	3.4 %	3.4 %	
MgO	0.10 %	0.10 %	
Na2O	0.30 %	0.30 %	Includes K <sub>2</sub> O
SiO2	43.1 %	43.1 %	

TiO2	1.9%	1.9%	
Component Elements Properties	Metric	English	Comments

## Contact Songhan Plastic Technology Co.,Ltd.

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