

## BNZ Materials Bazelite 2300 VLI Insulating Castable

Category : Ceramic , Oxide , Aluminum Oxide

### Material Notes:

Blazelite 2300 VLI is similar to Blazelite 2300 but suitable for those applications where reducing conditions might be encountered. These high purity, low iron products are specifically designed for both back-up and exposed to furnace combustion. Information provided by BNZ Materials Inc.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_BNZ-Materials-Bazelite-2300-VLI-Insulating-Castable.php](http://www.lookpolymers.com/polymer_BNZ-Materials-Bazelite-2300-VLI-Insulating-Castable.php)

Physical Properties	Metric	English	Comments
Density	1.06 g/cc	0.0382 lb/in <sup>3</sup>	Fired at 5 hrs at 816°C

Mechanical Properties	Metric	English	Comments
Modulus of Rupture	0.000550 GPa	0.0798 ksi	Fired; ASTM C268
	@Temperature 540 °C	@Temperature 1000 °F	
	0.000620 GPa	0.0899 ksi	ASTM C268
	@Temperature 815 °C	@Temperature 1500 °F	
	0.000620 GPa	0.0899 ksi	ASTM C268
	@Temperature 1095 °C	@Temperature 2003 °F	
	0.000970 GPa	0.141 ksi	Dried; ASTM C268
	@Temperature 104 °C	@Temperature 219 °F	
	0.000970 GPa	0.141 ksi	ASTM C268
	@Temperature 1260 °C	@Temperature 2300 °F	
Compressive Strength	2.14 MPa	310 psi	Cold Crush Strength
	@Temperature 1095 °C	@Temperature 2003 °F	
	2.55 MPa	370 psi	Cold Crush Strength
	@Temperature 815 °C	@Temperature 1500 °F	
	3.79 MPa	550 psi	Cold Crush Strength
	@Temperature 1260 °C	@Temperature 2300 °F	
	2.14 MPa	310 psi	Cold Crush Strength; Dried 104°C
	@Treatment Temp. 540 °C	@Treatment Temp. 1000 °F	
	4.14 MPa	600 psi	Cold Crush Strength; Dried 104°C

Mechanical Properties	@Treatment Temp. 104 Metric	@Treatment Temp. 219 English	Comments
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Thermal Properties	Metric	English	Comments
Maximum Service Temperature, Air	1260 °C	2300 °F	
Shrinkage	0.10 % @Temperature 540 °C	0.10 % @Temperature 1000 °F	Permanent Linear Change; ASTM C210
	0.20 % @Temperature 815 °C	0.20 % @Temperature 1500 °F	
	0.20 % @Temperature 1095 °C	0.20 % @Temperature 2003 °F	
	0.70 % @Temperature 1260 °C	0.70 % @Temperature 2300 °F	

Component Elements Properties	Metric	English	Comments
Al2O3	47.8 %	47.8 %	
CaO	15.1 %	15.1 %	
Fe2O3	0.50 %	0.50 %	
Na2O	0.90 %	0.90 %	Includes K <sub>2</sub> O
SiO2	35 %	35 %	
TiO2	1.0 %	1.0 %	

## Contact Songhan Plastic Technology Co.,Ltd.

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