

BNZ Materials Blazecrete 2300 ARG Dense Castable

Category : Ceramic , Oxide , Silicon Oxide

Material Notes:

Blazecrete 2300 ARG is an alumina-silica castable with high strength and abrasion resistance. For service to 2300°F (1260°C). May be gunned or slap-troweled over Blazelite 2000G to obtain a high strength hot face with a good insulating back-up. Suitable for ash pits, dust collector flues and other areas where abrasive or erosive conditions exist. Information provided by BNZ Materials Inc.

Order this product through the following link:

http://www.lookpolymers.com/polymer_BNZ-Materials-Blazecrete-2300-ARG-Dense-Castable.php

Physical Properties	Metric	English	Comments
Density	1.92 g/cc	0.0694 lb/in ³	

Mechanical Properties	Metric	English	Comments
Modulus of Rupture	0.00140 GPa	0.203 ksi	ASTM C268
	@Temperature 1095 °C	@Temperature 2003 °F	
	0.00210 GPa	0.305 ksi	Fired; ASTM C268
	@Temperature 540 °C	@Temperature 1000 °F	
	0.00210 GPa	0.305 ksi	ASTM C268
	@Temperature 815 °C	@Temperature 1500 °F	
	0.00210 GPa	0.305 ksi	ASTM C268
	@Temperature 1260 °C	@Temperature 2300 °F	
	0.00760 GPa	1.10 ksi	Dried; ASTM C268
	@Temperature 104 °C	@Temperature 219 °F	
	16.5 MPa	2390 psi	Cold Crush Strength
	@Temperature 1095 °C	@Temperature 2003 °F	
Compressive Strength	17.9 MPa	2600 psi	Cold Crush Strength
	@Temperature 1260 °C	@Temperature 2300 °F	
	24.1 MPa	3500 psi	Cold Crush Strength
	@Temperature 815 °C	@Temperature 1500 °F	
	22.4 MPa	3250 psi	Cold Crush Strength; Dried 104°C
	@Treatment Temp. 540 °C	@Treatment Temp. 1000 °F	
	48.9 MPa	7090 psi	
			Cold Crush Strength; Dried 104°C

Mechanical Properties	Metric	English	Comments
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Thermal Properties	Metric	English	Comments
Maximum Service Temperature, Air	1260 °C	2300 °F	
Shrinkage	0.10 %	0.10 %	Permanent Linear Change; ASTM C210
	@Temperature 104 °C	@Temperature 219 °F	
	0.20 %	0.20 %	Permanent Linear Change; ASTM C210
	@Temperature 540 °C	@Temperature 1000 °F	
	0.30 %	0.30 %	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	
	1.1 %	1.1 %	Permanent Linear Change; ASTM C210
	@Temperature 1260 °C	@Temperature 2300 °F	

Component Elements Properties	Metric	English	Comments
Al2O3	33.4 %	33.4 %	
CaO	13.6 %	13.6 %	
Fe2O3	7.9 %	7.9 %	
Na2O	0.10 %	0.10 %	Includes K₂O
SiO2	40.2 %	40.2 %	
TiO2	1.0 %	1.0 %	

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