

BNZ Materials Blazecrete 2600 Dense Castable

Category : Ceramic , Oxide

Material Notes:

Blazecrete 2600 is a general purpose castable for service to 2600°F (1427°C). It is especially effective in casting door linings, boiler walls, monolithic car tops, hearths, fire boxes, as well as safety linings in continuous casting tundishes. Information provided by BNZ Materials Inc.

Order this product through the following link:

http://www.lookpolymers.com/polymer_BNZ-Materials-Blazecrete-2600-Dense-Castable.php

Physical Properties	Metric	English	Comments
Density	2.08 g/cc	0.0752 lb/in ³	

Mechanical Properties	Metric	English	Comments
Modulus of Rupture	0.00480 GPa	0.696 ksi	At Use Limit; ASTM C268
	0.000700 GPa	0.102 ksi	ASTM C268
	@Temperature 815 °C	@Temperature 1500 °F	
	0.000700 GPa	0.102 ksi	ASTM C268
	@Temperature 1095 °C	@Temperature 2003 °F	
	0.000900 GPa	0.131 ksi	Fired; ASTM C268
	@Temperature 540 °C	@Temperature 1000 °F	
	0.00140 GPa	0.203 ksi	ASTM C268
@Temperature 1260 °C	@Temperature 2300 °F		
0.00280 GPa	0.406 ksi	Dried; ASTM C268	
@Temperature 104 °C	@Temperature 219 °F		
0.00410 GPa	0.595 ksi	ASTM C268	
@Temperature 1371 °C	@Temperature 2500 °F		
Compressive Strength	27.6 MPa	4000 psi	Cold Crush Strength
	6.90 MPa	1000 psi	Cold Crush Strength
	@Temperature 1095 °C	@Temperature 2003 °F	
	12.4 MPa	1800 psi	Cold Crush Strength
	@Temperature 815 °C	@Temperature 1500 °F	
14.5 MPa	2100 psi	Cold Crush Strength	
@Temperature 1260 °C	@Temperature 2300 °F		

Mechanical Properties	Metric	English	Comments
	14.3 MPa	2100 psi	
	@Treatment Temp. 540 °C	@Treatment Temp. 1000 °F	Cold Crush Strength; Dried 104°C
	17.9 MPa	2600 psi	
	@Treatment Temp. 104 °C	@Treatment Temp. 219 °F	Cold Crush Strength; Dried 104°C

Thermal Properties	Metric	English	Comments
Maximum Service Temperature, Air	1427 °C	2601 °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 540 °C	@Temperature 1000 °F	
	0.00 %	0.00 %	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	
	0.20 %	0.20 %	Permanent Linear Change; ASTM C210
	@Temperature 1260 °C	@Temperature 2300 °F	
	0.80 - 2.8 %	0.80 - 2.8 %	Permanent Linear Change
	@Temperature 1371 °C	@Temperature 2500 °F	

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