

BNZ Materials Blazecrete 2500 HS Dense Castable

Category : Ceramic , Oxide , Aluminum Oxide

Material Notes:

Blazecrete 2500 HS is a high-duty castable designed to withstand loads and resist normal abrasion and erosion at moderate temperatures to 2500°F (1371°C). Use with Blazelite 2100 for a dual component lining for combined high strength and insulation. Used for ash hoppers, incinerator floors, dust collector linings, cupola charging zones and fireplace sidewalls and hearths. Information provided by BNZ Materials Inc.

Order this product through the following link:

http://www.lookpolymers.com/polymer_BNZ-Materials-Blazecrete-2500-HS-Dense-Castable.php

Physical Properties	Metric	English	Comments
Density	1.99 g/cc	0.0718 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	
	0.00480 GPa	0.696 ksi	ASTM C268
	@Temperature 1371 °C	@Temperature 2500 °F	
	0.00760 GPa	1.10 ksi	Dried; ASTM C268
	@Temperature 104 °C	@Temperature 219 °F	
Compressive Strength	18.6 MPa	2700 psi	Cold Crush Strength
	@Temperature 1095 °C	@Temperature 2003 °F	
	23.4 MPa	3390 psi	Cold Crush Strength
	@Temperature 1260 °C	@Temperature 2300 °F	
	35.8 MPa	5190 psi	Cold Crush Strength
	@Temperature 1371 °C	@Temperature 2500 °F	
	38.6 MPa	5600 psi	

Mechanical Properties	Metric @ Temperature 815 °C	English @ Temperature 1500 °F	Cold Crush Strength Comments
	44.1 MPa	6400 psi	Cold Crush Strength; Dried 104°C
	@Treatment Temp. 540 °C	@Treatment Temp. 1000 °F	
	55.2 MPa	8010 psi	Cold Crush Strength; Dried 104°C
	@Treatment Temp. 104 °C	@Treatment Temp. 219 °F	

Thermal Properties	Metric	English	Comments
Maximum Service Temperature, Air	1371 °C	2500 °F	
Shrinkage	0.00 %	0.00 %	Permanent Linear Change; ASTM C210
	@Temperature 104 °C	@Temperature 219 °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		
0.20 %	0.20 %	Permanent Linear Change	
@Temperature 1371 °C	@Temperature 2500 °F		
0.80 %	0.80 %	Permanent Linear Change; ASTM C210	
@Temperature 1260 °C	@Temperature 2300 °F		

Component Elements Properties	Metric	English	Comments
Al2O3	42.9 %	42.9 %	
CaO	8.4 %	8.4 %	
Fe2O3	5.5 %	5.5 %	
MgO	0.20 %	0.20 %	
Na2O	0.30 %	0.30 %	Includes K ₂ O
SiO2	41 %	41 %	
TiO2	1.7 %	1.7 %	

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