

BNZ Materials Bazelite 2500 LI Insulating Castable

Category : Ceramic , Oxide , Aluminum Oxide

Material Notes:

Bazelite 2500 LI is an extremely strong insulating castable designed for general purpose use in those areas that require this combination of light weight and high strength, such as forge furnace doors and roofs, reheat furnace sub-hearths, petrochemical stills and heater linings, metal heating furnace hearths, cat-cracking units, reactor vessels, flue and duct linings and kiln car tops. Information provided by BNZ Materials Inc.

Order this product through the following link:

http://www.lookpolymers.com/polymer_BNZ-Materials-Bazelite-2500-LI-Insulating-Castable.php

Physical Properties	Metric	English	Comments
Density	1.25 g/cc	0.0451 lb/in ³	Fired at 5 hrs at 816°C

Mechanical Properties	Metric	English	Comments
Modulus of Rupture	0.000830 GPa	0.120 ksi	ASTM C268
	@Temperature 1095 °C	@Temperature 2003 °F	
	0.000930 GPa	0.135 ksi	ASTM C268
	@Temperature 815 °C	@Temperature 1500 °F	
	0.00110 GPa	0.160 ksi	Fired; ASTM C268
	@Temperature 540 °C	@Temperature 1000 °F	
Compressive Strength	0.00138 GPa	0.200 ksi	ASTM C268
	@Temperature 1260 °C	@Temperature 2300 °F	
	0.00200 GPa	0.290 ksi	ASTM C268
	@Temperature 1371 °C	@Temperature 2500 °F	
	0.00278 GPa	0.403 ksi	Dried; ASTM C268
	@Temperature 104 °C	@Temperature 219 °F	
Compressive Strength	5.52 MPa	800 psi	Cold Crush Strength
	@Temperature 1095 °C	@Temperature 2003 °F	
	7.58 MPa	1100 psi	Cold Crush Strength
	@Temperature 1260 °C	@Temperature 2300 °F	
Compressive Strength	8.27 MPa	1200 psi	Cold Crush Strength
	@Temperature 815 °C	@Temperature 1500 °F	
Compressive Strength	9.65 MPa	1400 psi	

Mechanical Properties	Metric @ Temperature 1371 °C	English @ Temperature 2500 °F	Cold Crush Strength Comments
	8.27 MPa	1200 psi	
	@Treatment Temp. 540 °C	@Treatment Temp. 1000 °F	Cold Crush Strength; Dried 104°C
	10.3 MPa	1500 psi	
	@Treatment Temp. 104 °C	@Treatment Temp. 219 °F	Cold Crush Strength; Dried 104°C

Thermal Properties	Metric	English	Comments
Maximum Service Temperature, Air	1371 °C	2500 °F	
Shrinkage	0.20 %	0.20 %	Permanent Linear Change; ASTM C210
	@Temperature 540 °C	@Temperature 1000 °F	
	0.20 %	0.20 %	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	
0.50 %	0.50 %	Permanent Linear Change; ASTM C210	
@Temperature 1260 °C	@Temperature 2300 °F		
0.70 %	0.70 %	Permanent Linear Change; ASTM C210	
@Temperature 1371 °C	@Temperature 2500 °F		

Component Elements Properties	Metric	English	Comments
Al2O3	43.6 %	43.6 %	
CaO	13.6 %	13.6 %	
Fe2O3	2.7 %	2.7 %	
MgO	0.40 %	0.40 %	
Na2O	0.50 %	0.50 %	Includes K₂O
SiO2	38.2 %	38.2 %	
TiO2	1.0 %	1.0 %	

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