

Stellar Canada CERAMITE® BKR-F Wear Resistant Castable

Category : Ceramic , Oxide , Aluminum Oxide

Material Notes:

Ceramite is a family of wear resistant castables with a unique combination of high wear resistance, thermal resistance and mechanical strength. Ceramite is produced and supplied to end users world wide, both as mortars and as various precast components. Ceramite can easily be mixed, cast and shaped in any size and is thus comfortably to work with in-situ. Ceramite can be used in within a wide range of temperatures and applications exposed to thermal shock conditions in industries like for example aluminum, cement and

ferro. Applications: Floor Tile, Hearth/Furnace Tile, Furnace Sills & Doors, Lintels, Pipe and Duct Linings, Feed Tubes, Troughs/Launders, Ladles, Dampers, Nozzle Blasters, Crucible Linings, Vortex, Burner Tip Cooler Plates, Nose Ring, Electrical Insulation, Cold Wear

Areas Specific Notes on This Grade: A trowelable formulation with good thermal and electrical insulating properties. A castable widely used in aluminum, ferro alloys, mining, cement, and steel industries Information provided by Stellar Canada.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Stellar-Canada-CERAMITE-BKR-F-Wear-Resistant-Castable.php

Physical Properties	Metric	English	Comments
Bulk Density	2.79 g/cc	0.101 lb/in ³	Trowellable

Mechanical Properties	Metric	English	Comments
Modulus of Rupture	0.02100 GPa	3.046 ksi	Hot, prefired at 1832°F/24 hours (1000°C)
Flexural Strength	9.011 MPa	1307 psi	after Firing; ASTM-349
	@Temperature 1200 °C	@Temperature 2192 °F	
	16.50 MPa	2393 psi	
Compressive Strength	@Temperature 850.0 °C	@Temperature 1562 °F	after Firing; ASTM-349
	16.60 MPa	2408 psi	
	@Temperature 500 °C	@Temperature 932 °F	
Compressive Strength	17.90 MPa	2596 psi	after Firing; ASTM-349
	@Temperature 1000 °C	@Temperature 1832 °F	
	104.00 MPa	15084 psi	
Compressive Strength	@Temperature 1200 °C	@Temperature 2190 °F	after Firing; ASTM C-349
	121.0 MPa	17550 psi	
	@Temperature 1000 °C	@Temperature 1830 °F	

Mechanical Properties	Metric	English	Comments
	122.00 MPa @Temperature 850 Å°C	19145 psi @Temperature 1560 Å°F	after Firing; ASTM C-349
	169.00 MPa @Temperature 500 Å°C	24512 psi @Temperature 932 Å°F	after Firing; ASTM C-349
	180.00 MPa @Temperature 20.0 Å°C	26107 psi @Temperature 68.0 Å°F	after 7 days

Thermal Properties	Metric	English	Comments
Maximum Service Temperature, Air	1200 Å°C	2192 Å°F	

Component Elements Properties	Metric	English	Comments
Al2O3	76 %	76 %	
CaO	7.0 %	7.0 %	
Fe2O3	1.01 %	1.01 %	
K2O	0.15 %	0.15 %	
MgO	0.090 %	0.090 %	
Na2O	0.070 %	0.070 %	
SiO2	13 %	13 %	
TiO2	2.0 %	2.0 %	

Descriptive Properties	Value	Comments
Application	Troweling	

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