

## Stellar Canada CERAMITE<sup>®</sup> BKR 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: The basic all-round castable with good thermal and electrical insulating properties. A castable widely used in aluminum, ferro alloys, mining, cement, and steel industries. Good references as floor times, crucible linings, impact plates, lining of furnace gates etc. Information provided by Stellar Canada.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Stellar-Canada-CERAMITE-BKR-Wear-Resistant-Castable.php](http://www.lookpolymers.com/polymer_Stellar-Canada-CERAMITE-BKR-Wear-Resistant-Castable.php)

Physical Properties	Metric	English	Comments
Bulk Density	2.87 g/cc	0.104 lb/in <sup>3</sup>	As Placed
Porosity	13.2 %	13.2 %	Apparent

Mechanical Properties	Metric	English	Comments
Modulus of Rupture	0.01500 GPa	2.176 ksi	Hot, prefired at 1832 <sup>°</sup> F/24 hours (1000 <sup>°</sup> C)
Flexural Strength	11.82 MPa	1714 psi	after Firing; ASTM-349
	@Temperature 1200 <sup>°</sup> C	@Temperature 2192 <sup>°</sup> F	
	17.1 MPa	2480 psi	after Firing; ASTM-349
	@Temperature 850.0 <sup>°</sup> C	@Temperature 1562 <sup>°</sup> F	
	19.30 MPa	2799 psi	after Firing; ASTM-349
	@Temperature 1000 <sup>°</sup> C	@Temperature 1832 <sup>°</sup> F	
	23.1 MPa	3350 psi	after Firing; ASTM-349
	@Temperature 500 <sup>°</sup> C	@Temperature 932 <sup>°</sup> F	
Compressive Strength	166.01 MPa	24077 psi	Cold Crushing after 1560 <sup>°</sup> F
	103.00 MPa	14939 psi	after Firing; ASTM C-349
	@Temperature 1200 <sup>°</sup> C	@Temperature 2190 <sup>°</sup> F	

Mechanical Properties	Metric	English	Comments
	133.0 MPa		
	@Temperature 850 Â°C	@Temperature 1560 Â°F	after Firing; ASTM C-349
	145.00 MPa	21031 psi	
	@Temperature 1000 Â°C	@Temperature 1830 Â°F	after Firing; ASTM C-349
	197.00 MPa	28573 psi	
	@Temperature 500 Â°C	@Temperature 932 Â°F	after Firing; ASTM C-349
	207.00 MPa	30023 psi	
	@Temperature 20.0 Â°C	@Temperature 68.0 Â°F	after 7 days

Thermal Properties	Metric	English	Comments
Thermal Conductivity	1.70 W/m-K	11.8 BTU-in/hr-ftÂ²-Â°F	
	@Temperature 300 Â°C	@Temperature 572 Â°F	
	1.77 W/m-K	12.3 BTU-in/hr-ftÂ²-Â°F	
	@Temperature 600.0 Â°C	@Temperature 1112 Â°F	
	2.16 W/m-K	15.0 BTU-in/hr-ftÂ²-Â°F	
	@Temperature 900.0 Â°C	@Temperature 1652 Â°F	
Maximum Service Temperature, Air	1200 Â°C	2200 Â°F	

Component Elements Properties	Metric	English	Comments
Al2O3	79 %	79 %	
CaO	6.3 %	6.3 %	
Fe2O3	1.08 %	1.08 %	
K2O	0.16 %	0.16 %	
MgO	0.090 %	0.090 %	
Na2O	0.070 %	0.070 %	
SiO2	11 %	11 %	
TiO2	3.0 %	3.0 %	

Descriptive Properties	Value	Comments
Application	Prefired	Precast Shapes

## Contact Songhan Plastic Technology Co.,Ltd.

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