

## Stellar Canada CERAMITE® BKR-S 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-S-Wear-Resistant-Castable.php](http://www.lookpolymers.com/polymer_Stellar-Canada-CERAMITE-BKR-S-Wear-Resistant-Castable.php)

Physical Properties	Metric	English	Comments
Bulk Density	2.90 g/cc	0.105 lb/in <sup>3</sup>	Self-flowing

Mechanical Properties	Metric	English	Comments
Modulus of Rupture	0.02600 GPa	3.771 ksi	Hot, prefired at 1832°F/24 hours (1000°C)
Flexural Strength	19.90 MPa	2886 psi	after Firing; ASTM-349
	@Temperature 850.0 °C	@Temperature 1562 °F	
	21.06 MPa	3055 psi	
Compressive Strength	@Temperature 1200 °C	@Temperature 2192 °F	after Firing; ASTM-349
	22.2 MPa	3220 psi	
	@Temperature 1000 °C	@Temperature 1832 °F	
Compressive Strength	23.12 MPa	3353 psi	after Firing; ASTM-349
	@Temperature 500 °C	@Temperature 932 °F	
	139.01 MPa	20161 psi	
Compressive Strength	@Temperature 1200 °C	@Temperature 2190 °F	after Firing; ASTM C-349
	142.00 MPa	20596 psi	
	@Temperature 1000 °C	@Temperature 1830 °F	

Mechanical Properties	Metric	English	Comments
	149.00 MPa	21611 psi	
	@Temperature 850 Å°C	@Temperature 1560 Å°F	after Firing; ASTM C-349
	149.00 MPa	21611 psi	
	@Temperature 20.0 Å°C	@Temperature 68.0 Å°F	after 7 days
	215.01 MPa	31184 psi	
	@Temperature 500 Å°C	@Temperature 932 Å°F	after Firing; ASTM C-349

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

Component Elements Properties	Metric	English	Comments
Al2O3	79 %	79 %	
CaO	4.3 %	4.3 %	
Fe2O3	1.0 %	1.0 %	
K2O	0.15 %	0.15 %	
MgO	0.090 %	0.090 %	
Na2O	0.12 %	0.12 %	
SiO2	13 %	13 %	
TiO2	2.0 %	2.0 %	

Descriptive Properties	Value	Comments
Application	Prefired	Precast Shapes

## Contact Songhan Plastic Technology Co.,Ltd.

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