

## Stellar Canada CERAMITE® BCR 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

AreasSpecific Notes on This Grade: A castable with the combination of properties of BKR and CSR. Used in all industries where good abrasion and thermo shock properties are required. References as segments of aluminum furnaces, valves, impact/wear plates, launders etcâ€¦Information provided by Stellar Canada.

Order this product through the following link:

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

Physical Properties	Metric	English	Comments
Bulk Density	2.74 g/cc	0.0990 lb/in <sup>3</sup>	As Placed
Porosity	14.9 %	14.9 %	Apparent

Mechanical Properties	Metric	English	Comments
Modulus of Rupture	0.01300 GPa	1.886 ksi	Hot, prefired at 1832 <sup>o</sup> F/24 hours (1000 <sup>o</sup> C)
Flexural Strength	7.963 MPa	1155 psi	after Firing; ASTM-349
	@Temperature 1200 <sup>o</sup> C	@Temperature 2192 <sup>o</sup> F	
	8.798 MPa	1276 psi	after Firing; ASTM-349
	@Temperature 1000 <sup>o</sup> C	@Temperature 1832 <sup>o</sup> F	
	11.00 MPa	1595 psi	after Firing; ASTM-349
	@Temperature 850.0 <sup>o</sup> C	@Temperature 1562 <sup>o</sup> F	
	16.40 MPa	2379 psi	after Firing; ASTM-349
	@Temperature 500 <sup>o</sup> C	@Temperature 932 <sup>o</sup> F	
Compressive Strength	116.00 MPa	16825 psi	Cold Crushing after 1560 <sup>o</sup> F
	98.002 MPa	14214 psi	after Firing; ASTM C-349
	@Temperature 1200 <sup>o</sup> C	@Temperature 2190 <sup>o</sup> F	

Mechanical Properties	Metric	English	Comments
	130.00 MPa		
	@Temperature 850 Â°C	@Temperature 1560 Â°F	after Firing; ASTM C-349
	132.00 MPa	19145 psi	
	@Temperature 1000 Â°C	@Temperature 1830 Â°F	after Firing; ASTM C-349
	195.00 MPa	28283 psi	
	@Temperature 20.0 Â°C	@Temperature 68.0 Â°F	after 7 days
	199.00 MPa	28863 psi	
	@Temperature 500 Â°C	@Temperature 932 Â°F	after Firing; ASTM C-349

Thermal Properties	Metric	English	Comments
Thermal Conductivity	2.528 W/m-K	17.54 BTU-in/hr-ftÂ²-Â°F	
	@Temperature 600.0 Â°C	@Temperature 1112 Â°F	
	2.687 W/m-K	18.65 BTU-in/hr-ftÂ²-Â°F	
	@Temperature 300 Â°C	@Temperature 572 Â°F	
Maximum Service Temperature, Air	999 Â°C	1830 Â°F	

Component Elements Properties	Metric	English	Comments
Al2O3	63 %	63 %	
CaO	6.3 %	6.3 %	
Fe2O3	0.82 %	0.82 %	
K2O	0.12 %	0.12 %	
MgO	0.070 %	0.070 %	
Na2O	0.060 %	0.060 %	
SiC	17 %	17 %	
SiO2	10 %	10 %	
TiO2	2.0 %	2.0 %	

Descriptive Properties	Value	Comments
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Application  
Descriptive Properties

Prefired  
Value

Precast Shapes  
Comments

## Contact Songhan Plastic Technology Co.,Ltd.

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