

## Stellar Canada CERAMITE® CSR-S Wear Resistant Castable

Category : Ceramic , Carbide , 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 extreme abrasion resistance and high thermal conductivity. Used in the same industries as BKR in areas with high abrasion problems. References as lining material for pipes and bends, impact plates, lining of transportation systems, duct linings, crucible linings etc...Information provided by Stellar Canada.

Order this product through the following link:

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

Physical Properties	Metric	English	Comments
Bulk Density	2.79 g/cc	0.101 lb/in <sup>3</sup>	Self-flowing

Mechanical Properties	Metric	English	Comments
Modulus of Rupture	0.02800 GPa	4.061 ksi	Hot, prefired at 1832°F/24 hours (1000°C)
Flexural Strength	18.33 MPa	2659 psi	after Firing; ASTM-349
	@Temperature 850.0 °C	@Temperature 1562 °F	
	20.40 MPa	2959 psi	
Compressive Strength	@Temperature 500 °C	@Temperature 932 °F	after Firing; ASTM-349
	21.40 MPa	3104 psi	after Firing; ASTM-349
	@Temperature 1000 °C	@Temperature 1832 °F	
Compressive Strength	23.17 MPa	3361 psi	after Firing; ASTM-349
	@Temperature 1200 °C	@Temperature 2192 °F	
	115.0 MPa	16680 psi	after Firing; ASTM C-349
Compressive Strength	@Temperature 1200 °C	@Temperature 2190 °F	after Firing; ASTM C-349
	119.0 MPa	17260 psi	after Firing; ASTM C-349
	@Temperature 1000 °C	@Temperature 1830 °F	

Mechanical Properties	Metric	English	Comments
	133.0 MPa	19200 psi	
	@Temperature 850 Å°C	@Temperature 1560 Å°F	after Firing; ASTM C-349
	137.0 MPa	19870 psi	
	@Temperature 20.0 Å°C	@Temperature 68.0 Å°F	after 7 days
	176.00 MPa	25527 psi	
	@Temperature 500 Å°C	@Temperature 932 Å°F	after Firing; ASTM C-349

Thermal Properties	Metric	English	Comments
Maximum Service Temperature, Air	1000 Å°C	1832 Å°F	

Component Elements Properties	Metric	English	Comments
Al2O3	21 %	21 %	
CaO	4.3 %	4.3 %	
Fe2O3	0.030 %	0.030 %	
K2O	0.020 %	0.020 %	
MgO	0.010 %	0.010 %	
Na2O	0.050 %	0.050 %	
SiC	64 %	64 %	
SiO2	10 %	10 %	

Descriptive Properties	Value	Comments
Application	Prefired	Precast Shapes

## Contact Songhan Plastic Technology Co.,Ltd.

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