

Stellar Canada CERAMITE® CSR Wear Resistant Castable

Category : Ceramic , Carbide

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-Wear-Resistant-Castable.php

Physical Properties	Metric	English	Comments
Bulk Density	2.66 g/cc	0.0961 lb/in ³	As Placed
Porosity	13.7 %	13.7 %	Apparent

Mechanical Properties	Metric	English	Comments
Modulus of Rupture	0.02500 GPa	3.626 ksi	Hot, prefired at 1832°F/24 hours (1000°C)
Flexural Strength	11.9 MPa	1730 psi	after Firing; ASTM-349
	@Temperature 1200 °C	@Temperature 2192 °F	
	16.40 MPa	2379 psi	
	@Temperature 850.0 °C	@Temperature 1562 °F	after Firing; ASTM-349
	18.70 MPa	2712 psi	
	@Temperature 1000 °C	@Temperature 1832 °F	
	20.00 MPa	2901 psi	after Firing; ASTM-349
	@Temperature 500 °C	@Temperature 932 °F	
	221.00 MPa	32054 psi	
Compressive Strength	80.000 MPa	11603 psi	after Firing; ASTM C-349
	@Temperature 1200 °C	@Temperature 2190 °F	

Mechanical Properties	MetricMPa	Englishpsi	Comments
	@Temperature 1000 Â°C	@Temperature 1830 Â°F	after Firing; ASTM C-349
	118.00 MPa	17115 psi	after Firing; ASTM C-349
	@Temperature 850 Â°C	@Temperature 1560 Â°F	
	149.00 MPa	21611 psi	after 7 days
	@Temperature 20.0 Â°C	@Temperature 68.0 Â°F	
	184.00 MPa	26687 psi	after Firing; ASTM C-349
	@Temperature 500 Â°C	@Temperature 932 Â°F	

Thermal Properties	Metric	English	Comments
Thermal Conductivity	6.912 W/m-K	47.97 BTU-in/hr-ftÂ²-Â°F	
	@Temperature 900.0 Â°C	@Temperature 1652 Â°F	
	7.268 W/m-K	50.44 BTU-in/hr-ftÂ²-Â°F	
	@Temperature 600.0 Â°C	@Temperature 1112 Â°F	
	9.31 W/m-K	64.6 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	16 %	16 %	
CaO	6.3 %	6.3 %	
Fe2O3	0.030 %	0.030 %	
K2O	0.020 %	0.020 %	
MgO	0.010 %	0.010 %	
SiC	69 %	69 %	
SiO2	8.0 %	8.0 %	

Descriptive Properties	Value	Comments
Application	Prefired	Precast Shapes

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