Stellar Canada CERAMITEÂ® CSR-F 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 trowelable formulation 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, lining of transportation systems, duct linings etc...Information provided by Stellar Canada.

Order this product through the following link:
http://www.lookpolymers.com/polymer_Stellar-Canada-CERAMITE-CSR-F-Wear-Resistant-Castable.php

Physical Properties	Metric	English	Comments
Bulk Density	2.69 g/cc	0.0972 lb/inÂ³	Trowellable

Mechanical Properties	Metric	English	Comments
Modulus of Rupture	0.02100 GPa	3.046 ksi	Hot, prefired at 1832Â°F/24 hours (1000Â°C)
Flexural Strength	10.88 MPa @Temperature 1200 Â°C	1578 psi @Temperature 2192 Â°F	after Firing; ASTM-349
	12.30 MPa @Temperature 500 Â°C	1784 psi @Temperature 932 Â°F	after Firing; ASTM-349
	15.30 MPa @Temperature 850.0 Â°C	2219 psi @Temperature 1562 Â°F	after Firing; ASTM-349
	17.90 MPa @Temperature 1000 Â°C	2596 psi @Temperature 1832 Â°F	after Firing; ASTM-349
Compressive Strength	71.002 MPa @Temperature 1200 Â°C	10298 psi @Temperature 2190 Â°F	after Firing; ASTM C-349
	108.00 MPa @Temperature 1000 Â°C	15664 psi @Temperature 1830 Â°F	after Firing; ASTM C-349

Mechanical Properties	Metric	English	Comments
	114.00 MPa @Temperature 850 Â°C	16535 psi @Temperature 1560 Â°F	after Firing; ASTM C-349
	150.00 MPa @Temperature 500 Â°C	21756 psi @Temperature 932 Â°F	after Firing; ASTM C-349
	157.00 MPa @Temperature 20.0 Â°C	22771 psi @Temperature 68.0 Â°F	after 7 days

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

Component Elements Properties	Metric	English	Comments
Al2O3	18 %	18 %	
CaO	7.1 %	7.1 %	
Fe2O3	0.040 %	0.040 %	
K2O	0.020 %	0.020 %	
MgO	0.010 %	0.010 %	
Na2O	0.010 %	0.010 %	
SiC	64 %	64 %	
SiO2	10 %	10 %	

Descriptive Properties	Value	Comments
Application	Troweling	

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