

Stellar Canada CERAMITE® CSA 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 Areas Specific Notes on This Grade: A castable with extreme abrasion resistance and excellent thermo shock and alkali resistance properties. A castable which can be used in all industries where abrasion and thermo shock are problems. References from valves and lining of pipes and ducts for material transport in hot and extreme abrasive environments as well as areas in contact with molten metal. Information provided by Stellar Canada.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Stellar-Canada-CERAMITE-CSA-Wear-Resistant-Castable.php

Physical Properties	Metric	English	Comments
Bulk Density	2.88 g/cc	0.104 lb/in ³	As Placed
Porosity	14 %	14 %	Apparent

Mechanical Properties	Metric	English	Comments
Modulus of Rupture	0.0280 GPa	4.06 ksi	Hot, prefired at 1832°F/24 hours (1000°C)
Flexural Strength	25.3 MPa	3670 psi	after Firing; ASTM-349
	@Temperature 850.0 °C	@Temperature 1562 °F	
	26.40 MPa	3829 psi	
	@Temperature 500 °C	@Temperature 932 °F	after Firing; ASTM-349
	32.41 MPa	4701 psi	after Firing; ASTM-349
	@Temperature 1000 °C	@Temperature 1832 °F	
	34.40 MPa	4989 psi	after Firing; ASTM-349
	@Temperature 1200 °C	@Temperature 2192 °F	
Compressive Strength	138.01 MPa	20016 psi	Cold Crushing after 1560°F
	70.002 MPa	10153 psi	after 7 days

Mechanical Properties	Metric @Temperature 20.0 °C	English @Temperature 68.0 °F	Comments
	115.0 MPa	16680 psi	after Firing; ASTM C-349
	@Temperature 850 °C	@Temperature 1560 °F	
	117.0 MPa	16970 psi	after Firing; ASTM C-349
	@Temperature 1200 °C	@Temperature 2190 °F	
	139.01 MPa	20161 psi	after Firing; ASTM C-349
	@Temperature 1000 °C	@Temperature 1830 °F	
	150.00 MPa	21756 psi	after Firing; ASTM C-349
	@Temperature 500 °C	@Temperature 932 °F	

Thermal Properties	Metric	English	Comments
Thermal Conductivity	12.0 W/m-K	83.2 BTU-in/hr-ft ² - °F	
	@Temperature 600.0 °C	@Temperature 1112 °F	
	13.89 W/m-K	96.37 BTU-in/hr-ft ² - °F	
	@Temperature 300 °C	@Temperature 572 °F	
Maximum Service Temperature, Air	1500 °C	2730 °F	

Component Elements Properties	Metric	English	Comments
Al ₂ O ₃	12 %	12 %	
CaO	1.7 %	1.7 %	
Fe ₂ O ₃	0.020 %	0.020 %	
K ₂ O	0.020 %	0.020 %	
MgO	0.010 %	0.010 %	
Na ₂ O	0.040 %	0.040 %	
SiC	75 %	75 %	
SiO ₂	10 %	10 %	

Descriptive Properties	Value	Comments
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Application
Descriptive Properties

Prefired
Value

Precast Shapes
Comments

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