

Sharadaa Ceramics VELECRETE RC 101 Rodding Castables

Category : Ceramic

Material Notes:

Description: The Rodding Castables offered by us are user friendly in nature and does not require high energy mixing machines and vibrators. Free flowing in nature, these castables are designed in compliance with international standards. Bond: Ultrafine Aggregate: Cal. Clay Type of Setting: Hydraulic Information provided by Sharadaa Ceramics Pvt. Ltd.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Sharadaa-Ceramics-VELECRETE-RC-101-Rodding-Castables.php

Physical Properties	Metric	English	Comments
Bulk Density	2.30 g/cc	0.0831 lb/in ³	After Drying at 110 ^o C
Porosity	16 % @Temperature 1300 ^o C	16 % @Temperature 2370 ^o F	
Grain Size	<= 10000 ^o µm	<= 10000 ^o µm	

Mechanical Properties	Metric	English	Comments
Modulus of Rupture	0.0150 GPa @Temperature 1100 ^o C	2.18 ksi @Temperature 2010 ^o F	Hot
	0.0150 GPa @Temperature 1000 ^o C	2.18 ksi @Temperature 1830 ^o F	Cold
	0.0200 GPa @Temperature 110 ^o C	2.90 ksi @Temperature 230 ^o F	Cold
	0.0200 GPa @Temperature 1400 ^o C	2.90 ksi @Temperature 2550 ^o F	Cold
Compressive Strength	60.0 MPa @Temperature 1000 ^o C	8700 psi @Temperature 1830 ^o F	Cold Crushing
	80.0 MPa @Temperature 110 ^o C	11600 psi @Temperature 230 ^o F	Cold Crushing
	80.0 MPa @Temperature 1400 ^o C	11600 psi @Temperature 2550 ^o F	Cold Crushing

Thermal Properties	Metric	English	Comments
Thermal Conductivity	1.16 W/m-K @Temperature 600 Â°C	8.05 BTU-in/hr-ftÂ²- Â°F @Temperature 1110 Â°F	Hot Face
Maximum Service Temperature, Air	1600 Â°C	2910 Â°F	

Component Elements Properties	Metric	English	Comments
Al2O3	46 %	46 %	
Fe2O3	4.0 %	4.0 %	

Descriptive Properties	Value	Comments
Permanent Linear Change	<-0.9%	1600Â°C
Thermal Expansion	0.9	at 1100Â°C
Thermal Shock Resistance	Excellent	

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