

Sharadaa Ceramics VELECRETE RC 103 Rodding Castables

Category : Ceramic , Oxide , Aluminum Oxide

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: Sintered Mullite 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-103-Rodding-Castables.php

Physical Properties	Metric	English	Comments
Bulk Density	2.50 g/cc	0.0903 lb/in ³	After Drying at 110 ^o C
Porosity	16 - 18 %	16 - 18 %	
	@Temperature 1300 ^o C	@Temperature 2370 ^o F	
Grain Size	<= 10000 ^o µm	<= 10000 ^o µm	

Mechanical Properties	Metric	English	Comments
Modulus of Rupture	0.0130 GPa	1.89 ksi	Cold
	@Temperature 1000 ^o C	@Temperature 1830 ^o F	
	0.0150 GPa	2.18 ksi	Hot
	@Temperature 1100 ^o C	@Temperature 2010 ^o F	
	0.0180 GPa	2.61 ksi	Cold
	@Temperature 1400 ^o C	@Temperature 2550 ^o F	
	0.0180 GPa	2.61 ksi	Cold
	@Temperature 110 ^o C	@Temperature 230 ^o F	
Compressive Strength	65.0 MPa	9430 psi	Cold Crushing
	@Temperature 1000 ^o C	@Temperature 1830 ^o F	
	90.0 MPa	13100 psi	Cold Crushing
	@Temperature 110 ^o C	@Temperature 230 ^o F	
	90.0 MPa	13100 psi	Cold Crushing
	@Temperature 1400 ^o C	@Temperature 2550 ^o F	

Thermal Properties	Metric	English	Comments
Thermal Conductivity	1.63 W/m-K @Temperature 600 Â°C	11.3 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	60 %	60 %	
Fe2O3	1.2 %	1.2 %	

Descriptive Properties	Value	Comments
Permanent Linear Change	<-0.7%	1600Â°C
Thermal Expansion	0.9	at 1100Â°C
Thermal Shock Resistance	Excellent	

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