

Gouda Vuurvast CURON 160 FS Dense Refractory Castable

Category : Ceramic , Oxide , Silicon Oxide

Material Notes:

Description: This castable is based on fused silica. It has an extremely good thermal shock resistance and minor expansion behavior up to process temperature of 900°C. Application: zinc melting furnace inductors. Remarks: These values apply to cast products. Information provided by Gouda Vuurvast.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Gouda-Vuurvast-CURON-160-FS-Dense-Refractory-Castable.php

Physical Properties	Metric	English	Comments
Bulk Density	2.00 - 2.10 g/cc	0.0723 - 0.0759 lb/in ³	After drying at 110°C
Particle Size	<= 5000 µm	<= 5000 µm	Grain Size

Mechanical Properties	Metric	English	Comments
Compressive Strength	35.0 - 45.0 MPa	5080 - 6530 psi	Cold Crushing Strength
	@Temperature 1000 °C	@Temperature 1830 °F	
Compressive Strength	55.0 - 65.0 MPa	7980 - 9430 psi	Cold Crushing Strength
	@Temperature 100 °C	@Temperature 212 °F	

Thermal Properties	Metric	English	Comments
Thermal Conductivity	1.10 - 1.20 W/m-K	7.63 - 8.33 BTU-in/hr-ft ² -°F	
	@Temperature 100 °C	@Temperature 212 °F	
	1.13 - 1.23 W/m-K	7.84 - 8.54 BTU-in/hr-ft ² -°F	
	@Temperature 600 °C	@Temperature 1110 °F	
Thermal Conductivity	1.16 - 1.26 W/m-K	8.05 - 8.74 BTU-in/hr-ft ² -°F	
	@Temperature 1000 °C	@Temperature 1830 °F	
Maximum Service Temperature, Air	1600 °C	2910 °F	
Shrinkage	-0.100 - 0.100 %	-0.100 - 0.100 %	Permanent Linear Change
	@Temperature 1000 °C	@Temperature 1830 °F	

Component Elements Properties	Metric	English	Comments
Al2O3	20 %	20 %	
Fe2O3	0.10 %	0.10 %	
SiO2	75 %	75 %	

Descriptive Properties	Value	Comments
ASTM Classification	E	
Material Consumption per 1 m3	1950 kg	
Mixing Water	8-10 liters	per 100 kgs dry material

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