

Gouda Vuurvast VIBRON 160 K 50 Dense Vibrating Refractory Castable

Category : Ceramic , Carbide , Oxide , Aluminum Oxide

Material Notes:

Description: Vibron 160 K 50 is a low cement castable based on silicon carbide and characterized by a very good thermal conductivity, high abrasion resistance and a good oxidation resistance up to 1000°C. The thermal shock resistance is excellent. Remarks: Indicated values apply to vibrated products. Information provided by Gouda Vuurvast.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Gouda-Vuurvast-VIBRON-160-K-50-Dense-Vibrating-Refractory-Castable.php

Physical Properties	Metric	English	Comments
Bulk Density	2.60 - 2.70 g/cc	0.0939 - 0.0975 lb/in ³	After drying at 110°C
Particle Size	<= 3000 µm	<= 3000 µm	Grain Size

Mechanical Properties	Metric	English	Comments
Compressive Strength	65.0 - 75.0 MPa	9430 - 10900 psi	Cold Crushing Strength
	@Temperature 100 °C	@Temperature 212 °F	
Compressive Strength	100 - 120 MPa	14500 - 17400 psi	Cold Crushing Strength
	@Temperature 1400 °C	@Temperature 2550 °F	

Thermal Properties	Metric	English	Comments
Thermal Conductivity	2.20 - 4.20 W/m-K	15.3 - 29.1 BTU-in/hr-ft ² -°F	
	@Temperature 1400 °C	@Temperature 2550 °F	
	4.50 - 6.50 W/m-K	31.2 - 45.1 BTU-in/hr-ft ² -°F	
	@Temperature 600 °C	@Temperature 1110 °F	
	5.00 - 7.00 W/m-K	34.7 - 48.6 BTU-in/hr-ft ² -°F	
	@Temperature 100 °C	@Temperature 212 °F	
Maximum Service Temperature, Air	1600 °C	2910 °F	
Shrinkage	-0.100 - 0.100 %	-0.100 - 0.100 %	Permanent Linear Change
	@Temperature 1400 °C	@Temperature 2550 °F	

Component Elements Properties	Metric	English	Comments
Al2O3	45 %	45 %	
Fe2O3	0.20 %	0.20 %	
SiC	50 %	50 %	
SiO2	5.0 %	5.0 %	

Descriptive Properties	Value	Comments
Material Consumption per 1 m3	2600 kg	
Mixing Water	4-4.5 liters	per 100 kgs dry material

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