

Gouda Vuurvast VIBRON 162 K Sp Dense Vibrating Refractory Silicon Carbide Castable

Category : Ceramic , Carbide

Material Notes:

Vibron 162 K Sp is a low cement castable based on silicon carbide. This castable is characterized by a very good thermal conductivity, a high abrasion resistance and high resistance against oxidation. 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-162-K-Sp-Dense-Vibrating-Refractory-Silicon-Carbide-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 ^o C
Particle Size	<= 3000 μ m	<= 3000 μ m	Grain Size

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

Thermal Properties	Metric	English	Comments
Thermal Conductivity	5.00 - 6.00 W/m-K	34.7 - 41.6 BTU-in/hr-ft ² - ^o F	
	@Temperature 1400 ^o C	@Temperature 2550 ^o F	
	6.50 - 7.50 W/m-K	45.1 - 52.0 BTU-in/hr-ft ² - ^o F	
	@Temperature 600 ^o C	@Temperature 1110 ^o F	
	7.00 - 8.00 W/m-K	48.6 - 55.5 BTU-in/hr-ft ² - ^o F	
	@Temperature 100 ^o C	@Temperature 212 ^o F	
Maximum Service Temperature, Air	1600 ^o C	2910 ^o F	
Shrinkage	-0.100 - 0.100 %	-0.100 - 0.100 %	Permanent Linear Change
	@Temperature 1400 ^o C	@Temperature 2550 ^o F	

Component Elements Properties	Metric	English	Comments
Al2O3	16 %	16 %	
Fe2O3	0.20 %	0.20 %	
SiC	77 %	77 %	
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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