

Gouda Vuurvast VIBRON 160 H SiC Dense Vibrating Refractory Castable

Category : Ceramic , Carbide , Oxide , Aluminum Oxide , Silicon Oxide

Material Notes:

Description: Vibron 160 H SiC is a low cement vibrating castable characterized by a high strength, good abrasion resistance and excellent thermal shock resistance. Because of the presence of SiC, this material has a very good resistance against several aggressive slags. 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-VIBRON-160-H-SiC-Dense-Vibrating-Refractory-Castable.php

Physical Properties	Metric	English	Comments
Bulk Density	2.45 - 2.55 g/cc	0.0885 - 0.0921 lb/in ³	After drying at 110 ^o C
Particle Size	<= 6000 μ m	<= 6000 μ m	Grain Size

Mechanical Properties	Metric	English	Comments
Compressive Strength	80.0 - 90.0 MPa	11600 - 13100 psi	Cold Crushing Strength
	@Temperature 100 ^o C	@Temperature 212 ^o F	
Compressive Strength	95.0 - 105 MPa	13800 - 15200 psi	Cold Crushing Strength
	@Temperature 1400 ^o C	@Temperature 2550 ^o F	

Thermal Properties	Metric	English	Comments
Thermal Conductivity	1.35 - 1.55 W/m-K	9.37 - 10.8 BTU-in/hr-ft ² - ^o F	
	@Temperature 100 ^o C	@Temperature 212 ^o F	
	1.45 - 1.65 W/m-K	10.1 - 11.5 BTU-in/hr-ft ² - ^o F	
	@Temperature 600 ^o C	@Temperature 1110 ^o F	
	1.51 - 1.71 W/m-K	10.5 - 11.9 BTU-in/hr-ft ² - ^o F	
	@Temperature 1400 ^o C	@Temperature 2550 ^o F	
Maximum Service Temperature, Air	1650 ^o C	3000 ^o F	
Shrinkage	-0.200 - 0.200 %	-0.200 - 0.200 %	Permanent Linear Change
	@Temperature 1400 ^o C	@Temperature 2550 ^o F	

Component Elements Properties	Metric	English	Comments
Al2O3	54 %	54 %	
Fe2O3	1.0 %	1.0 %	
SiC	9.0 %	9.0 %	
SiO2	31 %	31 %	

Descriptive Properties	Value	Comments
ASTM Classification	Class E	
Material Consumption per 1 m3	2450 kg	
Mixing Water	4.5-5.5 liters	per 100 kgs dry material

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