

Gouda Vuurvast VIBRON 170 M GS (R) Dense Vibrating Refractory Castable

Category : Ceramic , Oxide , Aluminum Oxide , Silicon Oxide

Material Notes:

Description: Vibron 170 M GS (R) is a low cement castable based on synthetic mullite grog and is characterized by a high strength, excellent thermal shock resistance and high resistance to liquid slags. Due to special additions this material can be pumped and shotcreted. 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-170-M-GS-R-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 ^o C
Particle Size	<= 5000 μ m	<= 5000 μ m	Grain Size

Mechanical Properties	Metric	English	Comments
Compressive Strength	75.0 - 85.0 MPa	10900 - 12300 psi	Cold Crushing Strength
	@Temperature 100 ^o C	@Temperature 212 ^o F	
	90.0 - 110 MPa	13100 - 16000 psi	Cold Crushing Strength
	@Temperature 1400 ^o C	@Temperature 2550 ^o F	

Thermal Properties	Metric	English	Comments
Thermal Conductivity	1.25 - 1.35 W/m-K	8.68 - 9.37 BTU-in/hr-ft ² - ^o F	
	@Temperature 100 ^o C	@Temperature 212 ^o F	
	1.28 - 1.38 W/m-K	8.88 - 9.58 BTU-in/hr-ft ² - ^o F	
	@Temperature 600 ^o C	@Temperature 1110 ^o F	
	1.50 - 1.70 W/m-K	10.4 - 11.8 BTU-in/hr-ft ² - ^o F	
	@Temperature 1400 ^o C	@Temperature 2550 ^o F	
Maximum Service Temperature, Air	1700 ^o C	3090 ^o F	
Shrinkage	-0.500 - 0.500 %	-0.500 - 0.500 %	Permanent Linear Change
	@Temperature 1400 ^o C	@Temperature 2550 ^o F	

Component Elements Properties	Metric	English	Comments
Al2O3	73 %	73 %	
Fe2O3	<= 0.50 %	<= 0.50 %	
SiO2	26 %	26 %	

Descriptive Properties	Value	Comments
Material Consumption per 1 m3	2600 kg	
Mixing Water	5.5-6 liters	per 100 kgs dry material

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