

Gouda Vuurvast VIBRON 140 C RAPID Dense Vibrating Refractory Castable

Category : Ceramic , Oxide , Aluminum Oxide , Silicon Oxide

Material Notes:

Description: Vibron 140 C Rapid is a low cement castable, based on high quality coarse chamotte grog. Because of special additives this castable is special suited for a faster heating schedule. 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-140-C-RAPID-Dense-Vibrating-Refractory-Castable.php

Physical Properties	Metric	English	Comments
Bulk Density	2.30 - 2.40 g/cc	0.0831 - 0.0867 lb/in ³	After drying at 110 ^o C
Particle Size	<= 8000 μ m	<= 8000 μ m	Grain Size

Mechanical Properties	Metric	English	Comments
Compressive Strength	55.0 - 65.0 MPa	7980 - 9430 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 1000 ^o C	@Temperature 1830 ^o F	

Thermal Properties	Metric	English	Comments
Thermal Conductivity	1.10 - 1.20 W/m-K	7.63 - 8.33 BTU-in/hr-ft ² - ^o F	
	@Temperature 100 ^o C	@Temperature 212 ^o F	
	1.13 - 1.23 W/m-K	7.84 - 8.54 BTU-in/hr-ft ² - ^o F	
	@Temperature 600 ^o C	@Temperature 1110 ^o F	
	1.20 - 1.30 W/m-K	8.33 - 9.02 BTU-in/hr-ft ² - ^o F	
	@Temperature 1000 ^o C	@Temperature 1830 ^o F	
Maximum Service Temperature, Air	1400 ^o C	2550 ^o F	
Shrinkage	-0.400 - 0.400 %	-0.400 - 0.400 %	Permanent Linear Change
	@Temperature 1000 ^o C	@Temperature 1830 ^o F	

Component Elements Properties	Metric	English	Comments
Al2O3	47 %	47 %	
Fe2O3	1.5 %	1.5 %	
SiO2	47 %	47 %	

Descriptive Properties	Value	Comments
Material Consumption per 1 m3	2300 kg	
Mixing Water	5-6 liters	per 100 kgs dry material

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