

Gouda Vuurvast VIBRON 160 H Dense Vibrating Refractory Castable

Category : Ceramic , Oxide , Aluminum Oxide , Silicon Oxide

Material Notes:

Description: Vibron 160 H is a low cement castable based on high fired high alumina grog and characterized by a high strength and good thermal shock resistance. 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-H-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	90.0 - 110 MPa	13100 - 16000 psi	Cold Crushing Strength
	@Temperature 100 ^o C	@Temperature 212 ^o F	
Compressive Strength	100 - 120 MPa	14500 - 17400 psi	Cold Crushing Strength
	@Temperature 1400 ^o C	@Temperature 2550 ^o F	

Thermal Properties	Metric	English	Comments
Thermal Conductivity	1.20 - 1.30 W/m-K	8.33 - 9.02 BTU-in/hr-ft ² - ^o F	
	@Temperature 100 ^o C	@Temperature 212 ^o F	
Thermal Conductivity	1.23 - 1.33 W/m-K	8.54 - 9.23 BTU-in/hr-ft ² - ^o F	
	@Temperature 600 ^o C	@Temperature 1110 ^o F	
Thermal Conductivity	1.50 - 1.60 W/m-K	10.4 - 11.1 BTU-in/hr-ft ² - ^o F	
	@Temperature 1400 ^o C	@Temperature 2550 ^o F	
Maximum Service Temperature, Air	1600 ^o C	2910 ^o F	
Shrinkage	-0.400 - 0.400 %	-0.400 - 0.400 %	Permanent Linear Change
	@Temperature 1400 ^o C	@Temperature 2550 ^o F	

Component Elements Properties	Metric	English	Comments

Al2O3 Component Elements Properties	63 % Metric	63 % English	Comments
Fe2O3	1.0 %	1.0 %	
SiO2	31 %	31 %	

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

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