

Gouda Vuurvast VIBRON 150 Al RAPID Dense Vibrating Refractory Castable

Category : Ceramic , Oxide , Aluminum Oxide

Material Notes:

Description: Vibron 150 Al Rapid is a vibrating low cement castable resistant to liquid aluminum metal. Due to a special additive a relatively high heating rate is possible. 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-150-Al-RAPID-Dense-Vibrating-Refractory-Castable.php

Physical Properties	Metric	English	Comments
Bulk Density	2.80 - 2.90 g/cc	0.101 - 0.105 lb/in ³	After drying at 110 ^o C
Particle Size	<= 7000 μ m	<= 7000 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	
Compressive Strength	90.0 - 110 MPa	13100 - 16000 psi	Cold Crushing Strength
	@Temperature 1300 ^o C	@Temperature 2370 ^o F	

Thermal Properties	Metric	English	Comments
Thermal Conductivity	1.77 - 1.97 W/m-K	12.3 - 13.7 BTU-in/hr-ft ² - ^o F	
	@Temperature 100 ^o C	@Temperature 212 ^o F	
Thermal Conductivity	1.77 - 1.97 W/m-K	12.3 - 13.7 BTU-in/hr-ft ² - ^o F	
	@Temperature 600 ^o C	@Temperature 1110 ^o F	
Thermal Conductivity	1.82 - 2.02 W/m-K	12.6 - 14.0 BTU-in/hr-ft ² - ^o F	
	@Temperature 1300 ^o C	@Temperature 2370 ^o F	
Maximum Service Temperature, Air	1450 ^o C	2640 ^o F	
Shrinkage	-0.400 - 0.400 %	-0.400 - 0.400 %	Permanent Linear Change
	@Temperature 1300 ^o C	@Temperature 2370 ^o F	

Component Elements Properties	Metric	English	Comments

Al2O3 Component Elements Properties	75 % Metric	75 % English	Comments
Fe2O3	1.3 %	1.3 %	
SiO2	13 %	13 %	

Descriptive Properties	Value	Comments
Material Consumption per 1 m3	2800 kg	
Mixing Water	4.5-5 liters	per 100 kgs dry material

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