

Gouda Vuurvast VIBRON 150 G RAPID Dense Vibrating Refractory Castable

Category : Ceramic , Oxide , Aluminum Oxide

Material Notes:

Description: Vibron 150 G Rapid is a low cement castable based on sintered South-American bauxite. Because of special additives this material is suited for direct contact with liquid aluminum and allows a shorter heating schedule. Applied for aluminum furnaces, launders and ladles. 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-150-G-RAPID-Dense-Vibrating-Refractory-Castable.php

Physical Properties	Metric	English	Comments
Bulk Density	2.85 - 2.95 g/cc	0.103 - 0.107 lb/in ³	After drying at 110 ^o C
Particle Size	<= 4000 μ m	<= 4000 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	
	105 - 115 MPa	15200 - 16700 psi	Cold Crushing Strength
	@Temperature 1300 ^o C	@Temperature 2370 ^o F	

Thermal Properties	Metric	English	Comments
Thermal Conductivity	1.82 - 1.92 W/m-K	12.6 - 13.3 BTU-in/hr-ft ² - ^o F	
	@Temperature 100 ^o C	@Temperature 212 ^o F	
	1.82 - 1.92 W/m-K	12.6 - 13.3 BTU-in/hr-ft ² - ^o F	
	@Temperature 600 ^o C	@Temperature 1110 ^o F	
	1.89 - 1.99 W/m-K	13.1 - 13.8 BTU-in/hr-ft ² - ^o F	
	@Temperature 1300 ^o C	@Temperature 2370 ^o F	
Maximum Service Temperature, Air	1350 ^o C	2460 ^o F	
Shrinkage	-0.300 - 0.300 %	-0.300 - 0.300 %	Permanent Linear Change
	@Temperature 1300 ^o C	@Temperature 2370 ^o F	

Component Elements Properties	Metric	English	Comments
Al2O3	76 %	76 %	
Fe2O3	1.2 %	1.2 %	
SiO2	12 %	12 %	

Descriptive Properties	Value	Comments
Material Consumption per 1 m3	2850 kg	
Mixing Water	5-6 liters	per 100 kgs dry material

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