

Gouda Vuurvast FLUCON 160 K Dense Self Flowing Refractory Castable

Category : Ceramic , Carbide

Material Notes:

Description: Flucon 160 K is a self-flowing low cement castable based on silicon carbide. This castable is characterized by high strength high abrasion resistance and excellent thermal shock resistance. 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-FLUCON-160-K-Dense-Self-Flowing-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	<= 3000 μ m	<= 3000 μ m	Grain Size

Mechanical Properties	Metric	English	Comments
Compressive Strength	65.0 - 75.0 MPa	9430 - 10900 psi	Cold Crushing Strength
	@Temperature 100 ^o C	@Temperature 212 ^o F	
Compressive Strength	110 - 130 MPa	16000 - 18900 psi	Cold Crushing Strength
	@Temperature 1000 ^o C	@Temperature 1830 ^o F	

Thermal Properties	Metric	English	Comments
Thermal Conductivity	5.30 - 7.30 W/m-K	36.8 - 50.7 BTU-in/hr-ft ² - ^o F	
	@Temperature 1000 ^o C	@Temperature 1830 ^o F	
	6.50 - 8.50 W/m-K	45.1 - 59.0 BTU-in/hr-ft ² - ^o F	
	@Temperature 600 ^o C	@Temperature 1110 ^o F	
Thermal Conductivity	8.00 - 10.0 W/m-K	55.5 - 69.4 BTU-in/hr-ft ² - ^o F	
	@Temperature 100 ^o C	@Temperature 212 ^o F	
Maximum Service Temperature, Air	1600 ^o C	2910 ^o F	
Shrinkage	-0.200 - 0.200 %	-0.200 - 0.200 %	Permanent Linear Change
	@Temperature 1000 ^o C	@Temperature 1830 ^o F	

Component Elements Properties	Metric	English	Comments
Fe2O3	0.20 %	0.20 %	
SiC	70 %	70 %	
SiO2	7.0 %	7.0 %	

Descriptive Properties	Value	Comments
Material Consumption per 1 m3	2600 kg	
Mixing Water	5-5.5 liters	per 100 kgs dry material

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