

Gouda Vuurvast CURON 160 C Dense Refractory Castable

Category : Ceramic , Oxide , Aluminum Oxide , Silicon Oxide

Material Notes:

Description: Because of the selection of raw materials this castable has a high volume stability and keeps its strength up to high temperatures. In addition Curon 160 C has an excellent thermal shock resistance. It is largely used in the steel industry. 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-CURON-160-C-Dense-Refractory-Castable.php

Physical Properties	Metric	English	Comments
Bulk Density	2.50 - 2.60 g/cc	0.0903 - 0.0939 lb/in ³	After drying at 110 ^o C
Particle Size	<= 10000 μ m	<= 10000 μ m	Grain Size

Mechanical Properties	Metric	English	Comments
Compressive Strength	30.0 - 40.0 MPa	4350 - 5800 psi	Cold Crushing Strength
	@Temperature 1600 \AA ^o C	@Temperature 2910 \AA ^o F	
Compressive Strength	45.0 - 55.0 MPa	6530 - 7980 psi	Cold Crushing Strength
	@Temperature 100 \AA ^o C	@Temperature 212 \AA ^o F	

Thermal Properties	Metric	English	Comments
Thermal Conductivity	0.770 - 0.870 W/m-K	5.34 - 6.04 BTU-in/hr-ft ² - \AA ^o F	
	@Temperature 100 \AA ^o C	@Temperature 212 \AA ^o F	
	0.820 - 0.920 W/m-K	5.69 - 6.38 BTU-in/hr-ft ² - \AA ^o F	
Thermal Conductivity	@Temperature 600 \AA ^o C	@Temperature 1110 \AA ^o F	
	0.950 - 1.05 W/m-K	6.59 - 7.29 BTU-in/hr-ft ² - \AA ^o F	
Thermal Conductivity	@Temperature 1600 \AA ^o C	@Temperature 2910 \AA ^o F	
	Maximum Service Temperature, Air	1600 \AA ^o C	
Shrinkage	-0.550 - 0.550 %	-0.550 - 0.550 %	Permanent Linear Change
	@Temperature 1600 \AA ^o C	@Temperature 2910 \AA ^o F	

Component Elements Properties	Metric	English	Comments
Al2O3	62 %	62 %	
CaO	3.0 %	3.0 %	
Fe2O3	1.0 %	1.0 %	
SiO2	32 %	32 %	

Descriptive Properties	Value	Comments
ASTM Classification	E	
Material Consumption per 1 m3	2500 kg	
Mixing Water	7-8 liters	per 100 kgs dry material

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