

Gouda Vuurvast CURON 160 HS 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 a high strength up to high temperatures. In addition, Curon 160 HS has an excellent thermal shock resistance and abrasion resistance (7-10 cm³ according to ASTM C704-76a; in case of vibration cast 5-7cm³).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-HS-Dense-Refractory-Castable.php

Physical Properties	Metric	English	Comments
Bulk Density	2.35 - 2.45 g/cc	0.0849 - 0.0885 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	45.0 - 55.0 MPa	6530 - 7980 psi	Cold Crushing Strength
	@Temperature 1400 \AA ^o C	@Temperature 2550 \AA ^o F	
Compressive Strength	65.0 - 75.0 MPa	9430 - 10900 psi	Cold Crushing Strength
	@Temperature 100 \AA ^o C	@Temperature 212 \AA ^o F	

Thermal Properties	Metric	English	Comments
Thermal Conductivity	0.610 - 0.710 W/m-K	4.23 - 4.93 BTU-in/hr-ft ² - \AA ^o F	
	@Temperature 100 \AA ^o C	@Temperature 212 \AA ^o F	
Thermal Conductivity	0.670 - 0.770 W/m-K	4.65 - 5.34 BTU-in/hr-ft ² - \AA ^o F	
	@Temperature 600 \AA ^o C	@Temperature 1110 \AA ^o F	
Thermal Conductivity	0.800 - 0.900 W/m-K	5.55 - 6.25 BTU-in/hr-ft ² - \AA ^o F	
	@Temperature 1400 \AA ^o C	@Temperature 2550 \AA ^o F	
Maximum Service Temperature, Air	1600 \AA ^o C	2910 \AA ^o F	
Shrinkage	-0.400 - 0.400 %	-0.400 - 0.400 %	Permanent Linear Change
	@Temperature 1400 \AA ^o C	@Temperature 2550 \AA ^o F	

Component Elements Properties	Metric	English	Comments
Al2O3	62 %	62 %	
CaO	5.0 %	5.0 %	
Fe2O3	<= 1.5 %	<= 1.5 %	
SiO2	30 %	30 %	

Descriptive Properties	Value	Comments
ASTM Classification	E	
Material Consumption per 1 m3	2350 kg	
Mixing Water	8-10 liters	per 100 kgs dry material

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