

Gouda Vuurvast CURON 160 HS GM Dense Refractory Castable

Category : Ceramic , Oxide , Aluminum Oxide , Silicon Oxide

Material Notes:

Description: This gunning castable has a high volume stability up to high temperatures. In addition Curon 160 HS GM has an excellent thermal shock resistance and abrasion resistance (9-12 cm3 according to ASTM C704-76a).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-GM-Dense-Refractory-Castable.php

Physical Properties	Metric	English	Comments
Bulk Density	2.25 - 2.35 g/cc	0.0813 - 0.0849 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 $\text{\AA}$ ^o C	@Temperature 2550 $\text{\AA}$ ^o F	
	55.0 - 65.0 MPa	7980 - 9430 psi	Cold Crushing Strength
	@Temperature 100 $\text{\AA}$ ^o C	@Temperature 212 $\text{\AA}$ ^o F	

Thermal Properties	Metric	English	Comments
Thermal Conductivity	0.590 - 0.690 W/m-K	4.09 - 4.79 BTU-in/hr-ft ² - $\text{\AA}$ ^o F	
	@Temperature 100 $\text{\AA}$ ^o C	@Temperature 212 $\text{\AA}$ ^o F	
	0.650 - 0.750 W/m-K	4.51 - 5.20 BTU-in/hr-ft ² - $\text{\AA}$ ^o F	
	@Temperature 600 $\text{\AA}$ ^o C	@Temperature 1110 $\text{\AA}$ ^o F	
	0.820 - 0.920 W/m-K	5.69 - 6.38 BTU-in/hr-ft ² - $\text{\AA}$ ^o F	
	@Temperature 1400 $\text{\AA}$ ^o C	@Temperature 2550 $\text{\AA}$ ^o F	
Maximum Service Temperature, Air	1600 $\text{\AA}$ ^o C	2910 $\text{\AA}$ ^o F	
Shrinkage	-0.400 - 0.400 %	-0.400 - 0.400 %	Permanent Linear Change
	@Temperature 1400 $\text{\AA}$ ^o C	@Temperature 2550 $\text{\AA}$ ^o F	

Component Elements Properties	Metric	English	Comments
Al2O3	65 %	65 %	
CaO	4.0 %	4.0 %	
Fe2O3	<= 1.5 %	<= 1.5 %	
SiO2	29 %	29 %	

Descriptive Properties	Value	Comments
ASTM Classification	E	
Material Consumption per 1 m3	2250 kg	

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