

Gouda Vuurvast CURON 160 H 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 H has an excellent thermal shock resistance. It is largely used in the steel industry. Remarks: These values apply to cast products. Also available in gunning variety, marked "GM". Information provided by Gouda Vuurvast.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Gouda-Vuurvast-CURON-160-H-Dense-Refractory-Castable.php

Physical Properties	Metric	English	Comments
Bulk Density	2.30 - 2.40 g/cc	0.0831 - 0.0867 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	40.0 - 50.0 MPa	5800 - 7250 psi	Cold Crushing Strength
	@Temperature 1300 A°C	@Temperature 2370 A°F	
Compressive Strength	55.0 - 65.0 MPa	7980 - 9430 psi	Cold Crushing Strength
	@Temperature 100 A°C	@Temperature 212 A°F	

Thermal Properties	Metric	English	Comments
Thermal Conductivity	0.640 - 0.740 W/m-K	4.44 - 5.14 BTU-in/hr-ft ² - A°F	
	@Temperature 100 A°C	@Temperature 212 A°F	
Thermal Conductivity	0.640 - 0.740 W/m-K	4.44 - 5.14 BTU-in/hr-ft ² - A°F	
	@Temperature 600 A°C	@Temperature 1110 A°F	
Thermal Conductivity	0.770 - 0.870 W/m-K	5.34 - 6.04 BTU-in/hr-ft ² - A°F	
	@Temperature 1300 A°C	@Temperature 2370 A°F	
Maximum Service Temperature, Air	1600 A°C	2910 A°F	
Shrinkage	-0.250 - 0.250 %	-0.250 - 0.250 %	Permanent Linear Change
	@Temperature 1300 A°C	@Temperature 2370 A°F	

Component Elements Properties	Metric	English	Comments
Al2O3	64 %	64 %	
Fe2O3	<= 1.5 %	<= 1.5 %	
SiO2	30 %	30 %	

Descriptive Properties	Value	Comments
ASTM Classification	E	
Material Consumption per 1 m3	2250 kg	
Mixing Water	8-10 liters	per 100 kgs dry material

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