

Gouda Vuurvast CURON 160 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 maintains its strength up to high temperatures. In addition Curon 160 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". Other modifications are available on demand. Information provided by Gouda Vuurvast.

Order this product through the following link:

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

Physical Properties	Metric	English	Comments
Bulk Density	2.45 - 2.55 g/cc	0.0885 - 0.0921 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	35.0 - 45.0 MPa	5080 - 6530 psi	Cold Crushing Strength
	@Temperature 1400 \AA ^o C	@Temperature 2550 \AA ^o F	
Compressive Strength	50.0 - 60.0 MPa	7250 - 8700 psi	Cold Crushing Strength
	@Temperature 100 \AA ^o C	@Temperature 212 \AA ^o F	

Thermal Properties	Metric	English	Comments
Thermal Conductivity	0.750 - 0.850 W/m-K	5.20 - 5.90 BTU-in/hr-ft ² - \AA ^o F	
	@Temperature 100 \AA ^o C	@Temperature 212 \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 600 \AA ^o C	@Temperature 1110 \AA ^o F	
Thermal Conductivity	0.930 - 1.03 W/m-K	6.45 - 7.15 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	-0.550 - 0.550 %	-0.550 - 0.550 %	Permanent Linear Change
	@Temperature 1400 \AA ^o C	@Temperature 2550 \AA ^o F	

Component Elements Properties	Metric	English	Comments
Al2O3	64 %	64 %	
CaO	3.5 %	3.5 %	
Fe2O3	1.0 %	1.0 %	
SiO2	30 %	30 %	

Descriptive Properties	Value	Comments
ASTM Classification	E	
Material Consumption per 1 m3	2450 kg	
Mixing Water	8-10 liters	per 100 kgs dry material

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