

Gouda Vuurvast CURON 160 HSC Dense Refractory Castable

Category : Ceramic , Oxide , Aluminum Oxide , Silicon Oxide

Material Notes:

Description: Curon 160 HSC is a coarse abrasion resistant castable to be used up to 1600°C in reducing conditions. 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-HSC-Dense-Refractory-Castable.php

Physical Properties	Metric	English	Comments
Bulk Density	2.40 g/cc	0.0867 lb/in ³	After drying at 110°C
Particle Size	<= 8000 µm	<= 8000 µm	Grain Size

Mechanical Properties	Metric	English	Comments
Compressive Strength	40.0 - 50.0 MPa	5800 - 7250 psi	Cold Crushing Strength
	@Temperature 1200 °C	@Temperature 2190 °F	
Compressive Strength	65.0 - 75.0 MPa	9430 - 10900 psi	Cold Crushing Strength
	@Temperature 100 °C	@Temperature 212 °F	

Thermal Properties	Metric	English	Comments
Thermal Conductivity	0.610 - 0.710 W/m-K	4.23 - 4.93 BTU-in/hr-ft ² -°F	
	@Temperature 100 °C	@Temperature 212 °F	
	0.670 - 0.770 W/m-K	4.65 - 5.34 BTU-in/hr-ft ² -°F	
Thermal Conductivity	@Temperature 600 °C	@Temperature 1110 °F	
	0.770 - 0.870 W/m-K	5.34 - 6.04 BTU-in/hr-ft ² -°F	
Thermal Conductivity	@Temperature 1200 °C	@Temperature 2190 °F	
	Maximum Service Temperature, Air	1600 °C	
Shrinkage	-0.300 - 0.300 %	-0.300 - 0.300 %	Permanent Linear Change
	@Temperature 1200 °C	@Temperature 2190 °F	

Component Elements Properties	Metric	English	Comments
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Al2O3 Component Elements Properties	62 % Metric	62 % English	Comments
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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