

Gouda Vuurvast CURON 145 CC Dense Refractory Castable

Category : Ceramic , Oxide , Aluminum Oxide , Silicon Oxide

Material Notes:

Description: This castable is especially developed for strong, large constructions. 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-145-CC-Dense-Refractory-Castable.php

Physical Properties	Metric	English	Comments
Bulk Density	2.10 - 2.20 g/cc	0.0759 - 0.0795 lb/in ³	After drying at 110 ^o C
Particle Size	<= 10000 μ m	<= 10000 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	45.0 - 55.0 MPa	6530 - 7980 psi	Cold Crushing Strength
	@Temperature 100 A°C	@Temperature 212 A°F	

Thermal Properties	Metric	English	Comments
Thermal Conductivity	0.530 - 0.630 W/m-K	3.68 - 4.37 BTU-in/hr-ft ² - A°F	
	@Temperature 100 A°C	@Temperature 212 A°F	
Thermal Conductivity	0.580 - 0.680 W/m-K	4.03 - 4.72 BTU-in/hr-ft ² - A°F	
	@Temperature 600 A°C	@Temperature 1110 A°F	
Thermal Conductivity	0.650 - 0.750 W/m-K	4.51 - 5.20 BTU-in/hr-ft ² - A°F	
	@Temperature 1300 A°C	@Temperature 2370 A°F	
Maximum Service Temperature, Air	1450 A°C	2640 A°F	
Shrinkage	-0.300 - 0.300 %	-0.300 - 0.300 %	Permanent Linear Change
	@Temperature 1300 A°C	@Temperature 2370 A°F	

Component Elements Properties	Metric	English	Comments

Al2O3 Component Elements Properties	44 % Metric	44 % English	Comments
Fe2O3	<= 2.0 %	<= 2.0 %	
SiO2	45 %	45 %	

Descriptive Properties	Value	Comments
ASTM Classification	C	
Material Consumption per 1 m3	2100 kg	
Mixing Water	10-13 liters	per 100 kgs dry material

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