

Gouda Vuurvast CURON 100 C Dense Refractory Castable

Category : Ceramic , Oxide , Aluminum Oxide , Silicon Oxide

Material Notes:

Description: Curon 100 C can be applied up to 1000°C, under normal operating conditions and is especially applied in the bottom of electrolytic cells in the aluminum industry. 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-100-C-Dense-Refractory-Castable.php

Physical Properties	Metric	English	Comments
Bulk Density	1.85 - 1.95 g/cc	0.0668 - 0.0704 lb/in ³	After drying at 110°C
Particle Size	<= 8000 µm	<= 8000 µm	Grain Size

Mechanical Properties	Metric	English	Comments
Compressive Strength	20.0 - 30.0 MPa	2900 - 4350 psi	Cold Crushing Strength
	@Temperature 1000 °C	@Temperature 1830 °F	
Compressive Strength	50.0 - 60.0 MPa	7250 - 8700 psi	Cold Crushing Strength
	@Temperature 100 °C	@Temperature 212 °F	

Thermal Properties	Metric	English	Comments
Thermal Conductivity	0.450 - 0.550 W/m-K	3.12 - 3.82 BTU-in/hr-ft ² -°F	
	@Temperature 100 °C	@Temperature 212 °F	
	0.490 - 0.590 W/m-K	3.40 - 4.09 BTU-in/hr-ft ² -°F	
	@Temperature 600 °C	@Temperature 1110 °F	
	0.530 - 0.630 W/m-K	3.68 - 4.37 BTU-in/hr-ft ² -°F	
	@Temperature 1000 °C	@Temperature 1830 °F	
Maximum Service Temperature, Air	1000 °C	1830 °F	
Shrinkage	-0.100 - 0.500 %	-0.100 - 0.500 %	Permanent Linear Change
	@Temperature 1000 °C	@Temperature 1830 °F	

Component Elements Properties	Metric	English	Comments
Al2O3	25 %	25 %	
SiO2	55 %	55 %	

Descriptive Properties	Value	Comments
Material Consumption per 1 m3	1800 kg	
Mixing Water	13-17 liters	per 100 kgs dry material

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