

Gouda Vuurvast CURON 140 GM Dense Refractory Castable

Category : Ceramic , Oxide , Aluminum Oxide , Silicon Oxide

Material Notes:

Description: Because of its relatively low Fe₂O₃ content and its high alumina percentages, this gunning castable can be applied up to 1400°C in slightly reducing atmospheres. 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-140-GM-Dense-Refractory-Castable.php

Physical Properties	Metric	English	Comments
Bulk Density	2.00 - 2.10 g/cc	0.0723 - 0.0759 lb/in ³	After drying at 110°C
Particle Size	<= 4000 µm	<= 4000 µm	Grain Size

Mechanical Properties	Metric	English	Comments
Compressive Strength	25.0 - 35.0 MPa	3630 - 5080 psi	Cold Crushing Strength
	@Temperature 100 °C	@Temperature 212 °F	
Compressive Strength	25.0 - 35.0 MPa	3630 - 5080 psi	Cold Crushing Strength
	@Temperature 1300 °C	@Temperature 2370 °F	

Thermal Properties	Metric	English	Comments
Thermal Conductivity	0.480 - 0.580 W/m-K	3.33 - 4.03 BTU-in/hr-ft ² -°F	
	@Temperature 100 °C	@Temperature 212 °F	
Thermal Conductivity	0.530 - 0.630 W/m-K	3.68 - 4.37 BTU-in/hr-ft ² -°F	
	@Temperature 600 °C	@Temperature 1110 °F	
Thermal Conductivity	0.620 - 0.720 W/m-K	4.30 - 5.00 BTU-in/hr-ft ² -°F	
	@Temperature 1300 °C	@Temperature 2370 °F	
Maximum Service Temperature, Air	1400 °C	2550 °F	
Shrinkage	-0.400 - 0.400 %	-0.400 - 0.400 %	Permanent Linear Change
	@Temperature 1300 °C	@Temperature 2370 °F	

Component Elements Properties	Metric	English	Comments

AI2O3 Component Elements Properties	44 % Metric	44 % English	Comments
Fe2O3	<= 3.0 %	<= 3.0 %	
SiO2	37 %	37 %	

Descriptive Properties	Value	Comments
ASTM Classification	C	
Material Consumption per 1 m3	2000 kg	

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