

Gouda Vuurvast CURON 100 Dense Refractory Castable

Category : Ceramic , Oxide , Aluminum Oxide , Silicon Oxide

Material Notes:

Description: Curon 100 is a general purpose castable for temperatures up to 1000°C. 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-100-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	<= 4000 µm	<= 4000 µm	Grain Size

Mechanical Properties	Metric	English	Comments
Compressive Strength	10.0 - 20.0 MPa	1450 - 2900 psi	Cold Crushing Strength
	@Temperature 815 °C	@Temperature 1500 °F	
	25.0 - 35.0 MPa	3630 - 5080 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	
	0.530 - 0.630 W/m-K	3.68 - 4.37 BTU-in/hr-ft ² -°F	
	@Temperature 600 °C	@Temperature 1110 °F	
	0.550 - 0.650 W/m-K	3.82 - 4.51 BTU-in/hr-ft ² -°F	
	@Temperature 815 °C	@Temperature 1500 °F	
Maximum Service Temperature, Air	1000 °C	1830 °F	
Shrinkage	-0.200 - 0.200 %	-0.200 - 0.200 %	Permanent Linear Change
	@Temperature 815 °C	@Temperature 1500 °F	

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

Descriptive Properties	Value	Comments
Material Consumption per 1 m3	1850 kg	
Mixing Water	16-20 liters	per 100 kgs dry material

Contact Songhan Plastic Technology Co.,Ltd.

Website : www.lookpolymers.com
Email : sales@lookpolymers.com
Tel : +86 021-51131842
Mobile : +86 13061808058
Skype : lookpolymers
Address : United North Road 215,Fengxian District, Shanghai City,China