

Gouda Vuurvast CURON 120 C Dense Refractory Castable

Category : Ceramic , Oxide , Aluminum Oxide , Silicon Oxide

Material Notes:

Description: A general purpose castable for use up to 1200°C under normal operating conditions. Curon 120 C has good thermal shock resistance. 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-120-C-Dense-Refractory-Castable.php

Physical Properties	Metric	English	Comments
Bulk Density	1.90 - 2.00 g/cc	0.0686 - 0.0723 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	30.0 - 40.0 MPa	4350 - 5800 psi	Cold Crushing Strength
	@Temperature 100 °C	@Temperature 212 °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	0.520 - 0.620 W/m-K	3.61 - 4.30 BTU-in/hr-ft ² -°F	
	@Temperature 600 °C	@Temperature 1110 °F	
Thermal Conductivity	0.560 - 0.660 W/m-K	3.89 - 4.58 BTU-in/hr-ft ² -°F	
	@Temperature 1000 °C	@Temperature 1830 °F	
Maximum Service Temperature, Air	1200 °C	2190 °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 Component Elements Properties	33 % Metric	33 % English	Comments
SiO2	50 %	50 %	

Descriptive Properties	Value	Comments
ASTM Classification	A	
Material Consumption per 1 m3	1900 kg	
Mixing Water	13-16 liters	per 100 kgs dry material

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