

Gouda Vuurvast CURON 185 T Dense Refractory Castable

Category : Ceramic , Oxide , Aluminum Oxide

Material Notes:

Description: Curon 185 T is a very pure high alumina castable based on tabular alumina with very low Fe₂O₃ and SiO₂ contents. Suitable for use in strongly 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-185-T-Dense-Refractory-Castable.php

Physical Properties	Metric	English	Comments
Bulk Density	2.65 - 2.75 g/cc	0.0957 - 0.0994 lb/in ³	After drying at 110°C
Particle Size	<= 5000 µm	<= 5000 µm	Grain Size

Mechanical Properties	Metric	English	Comments
Compressive Strength	12.0 - 18.0 MPa	1740 - 2610 psi	Cold Crushing Strength
	@Temperature 1600 °C	@Temperature 2910 °F	
	17.0 - 23.0 MPa	2470 - 3340 psi	Cold Crushing Strength
	@Temperature 100 °C	@Temperature 212 °F	

Thermal Properties	Metric	English	Comments
Thermal Conductivity	1.21 - 1.41 W/m-K	8.40 - 9.79 BTU-in/hr-ft ² -°F	
	@Temperature 600 °C	@Temperature 1110 °F	
	1.28 - 1.48 W/m-K	8.88 - 10.3 BTU-in/hr-ft ² -°F	
	@Temperature 1600 °C	@Temperature 2910 °F	
	1.34 - 1.54 W/m-K	9.30 - 10.7 BTU-in/hr-ft ² -°F	
	@Temperature 100 °C	@Temperature 212 °F	
Maximum Service Temperature, Air	1870 °C	3400 °F	
Shrinkage	-0.500 - 0.500 %	-0.500 - 0.500 %	Permanent Linear Change
	@Temperature 1600 °C	@Temperature 2910 °F	

Component Elements Properties	Metric	English	Comments
Al ₂ O ₃	97 %	97 %	
CaO	2.5 %	2.5 %	

Component Elements Properties	Metric	English	Comments
Na2O or K2O	<= 0.35 %	<= 0.35 %	
SiO2	0.15 %	0.15 %	

Descriptive Properties	Value	Comments
ASTM Classification	G	
Material Consumption per 1 m3	2650 kg	
Mixing Water	9-11 liters	per 100 kgs dry material

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