

Gouda Vuurvast CURON 180 T Sp Dense Refractory Castable

Category : Ceramic , Oxide , Aluminum Oxide

Material Notes:

Description: Curon 180 T special is a tabular alumina based castable, highly resistant against abrasion, dust erosion or heavy impact even at extremely high temperatures. 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-180-T-Sp-Dense-Refractory-Castable.php

Physical Properties	Metric	English	Comments
Bulk Density	2.70 - 2.80 g/cc	0.0975 - 0.101 lb/in ³	After drying at 110°C
Particle Size	<= 3000 µm	<= 3000 µm	Grain Size

Mechanical Properties	Metric	English	Comments
Compressive Strength	35.0 - 45.0 MPa	5080 - 6530 psi	Cold Crushing Strength
	@Temperature 1600 °C	@Temperature 2910 °F	
Compressive Strength	45.0 - 55.0 MPa	6530 - 7980 psi	Cold Crushing Strength
	@Temperature 100 °C	@Temperature 212 °F	

Thermal Properties	Metric	English	Comments
Thermal Conductivity	1.28 - 1.48 W/m-K	8.88 - 10.3 BTU-in/hr-ft ² -°F	
	@Temperature 600 °C	@Temperature 1110 °F	
	1.35 - 1.55 W/m-K	9.37 - 10.8 BTU-in/hr-ft ² -°F	
	@Temperature 1600 °C	@Temperature 2910 °F	
	1.45 - 1.65 W/m-K	10.1 - 11.5 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	94 %	94 %	
CaO	4.5 %	4.5 %	

Component Elements Properties	Metric	English	Comments
SiO2	0.20 %	0.20 %	

Descriptive Properties	Value	Comments
ASTM Classification	G	
Material Consumption per 1 m3	2700 kg	
Mixing Water	8-10 liters	per 100 kgs dry material

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