Gouda Vuurvast CURON 180 L Dense Refractory Castable

Category : Ceramic , Oxide , Aluminum Oxide

Material Notes:

Description: Curon 180 L is a castable based on fused alumina for use up to 1800Â°C and shows a good thermal shock resistance.Remarks:

These values apply to cast products. Also available in gunning variety, marked "GM".Information provided by Gouda Vuurvast.

Order this product through the following link:
http://www.lookpolymers.com/polymer_Gouda-Vuurvast-CURON-180-L-Dense-Refractory-Castable.php

Physical Properties	Metric	English	Comments
Bulk Density	2.45 - 2.55 g/cc	0.0885 - 0.0921 lb/inÂ³	After drying at 110Â°C
Particle Size	<= 4000 Âµm	<= 4000 Âµm	Grain Size

Mechanical Properties	Metric	English	Comments
Compressive Strength	35.0 - 45.0 MPa @Temperature 100 Â°C	5080 - 6530 psi @Temperature 212 Â°F	Cold Crushing Strength
	40.0 - 50.0 MPa @Temperature 1600 Â°C	5800 - 7250 psi @Temperature 2910 Â°F	Cold Crushing Strength

Thermal Properties	Metric	English	Comments
Thermal Conductivity	0.700 - 0.900 W/m-K @Temperature 100 Â°C	4.86 - 6.25 BTU-in/hr-ftÂ²-Â°F @Temperature 212 Â°F	
	0.800 - 1.00 W/m-K @Temperature 600 Â°C	5.55 - 6.94 BTU-in/hr-ftÂ²-Â°F @Temperature 1110 Â°F	
	1.05 - 1.25 W/m-K @Temperature 1600 Â°C	7.29 - 8.68 BTU-in/hr-ftÂ²-Â°F @Temperature 2910 Â°F	
Maximum Service Temperature, Air	1800 Â°C	3270 Â°F	
Shrinkage	-0.500 - 0.500 % @Temperature 1600 Â°C	-0.500 - 0.500 % @Temperature 2910 Â°F	Permanent Linear Change

Component Elements Properties	Metric	English	Comments

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Al2O3	94 %	94 %	
Fe2O3	0.20 %	0.20 %	
SiO2	0.50 %	0.50 %	

Descriptive Properties	Value	Comments
ASTM Classification	G	
Material Consumption per 1 m3	2400 kg	
Mixing Water	9-11 liters	per 100 kgs dry material

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