

Gouda Vuurvast CURON 180 Dense Refractory Castable

Category : Ceramic , Oxide , Aluminum Oxide

Material Notes:

Description: This high quality, corundum based castable is marked by a high refractoriness and a good thermal shock resistance. Because it has a high alumina content and a low percentage of SiO₂, this castable can be applied in reducing atmospheres. 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-180-Dense-Refractory-Castable.php

Physical Properties	Metric	English	Comments
Bulk Density	2.75 - 2.85 g/cc	0.0994 - 0.103 lb/in ³	After drying at 110Â°C
Particle Size	<= 6000 Åµm	<= 6000 Åµm	Grain Size

Mechanical Properties	Metric	English	Comments
Compressive Strength	40.0 - 50.0 MPa	5800 - 7250 psi	Cold Crushing Strength
	@Temperature 1600 Å°C	@Temperature 2910 Å°F	
	55.0 - 65.0 MPa	7980 - 9430 psi	Cold Crushing Strength
	@Temperature 100 Å°C	@Temperature 212 Å°F	

Thermal Properties	Metric	English	Comments
Thermal Conductivity	1.28 - 1.48 W/m-K	8.88 - 10.3 BTU-in/hr-ftÅ²-Å°F	
	@Temperature 600 Å°C	@Temperature 1110 Å°F	
	1.35 - 1.55 W/m-K	9.37 - 10.8 BTU-in/hr-ftÅ²-Å°F	
	@Temperature 1600 Å°C	@Temperature 2910 Å°F	
	1.45 - 1.65 W/m-K	10.1 - 11.5 BTU-in/hr-ftÅ²-Å°F	
	@Temperature 100 Å°C	@Temperature 212 Å°F	
Maximum Service Temperature, Air	1800 Å°C	3270 Å°F	
Shrinkage	-0.250 - 0.250 %	-0.250 - 0.250 %	Permanent Linear Change
	@Temperature 1600 Å°C	@Temperature 2910 Å°F	

Component Elements Properties	Metric	English	Comments
Al2O3	95 %	95 %	
CaO	4.0 %	4.0 %	
Fe2O3	0.20 %	0.20 %	
SiO2	0.20 %	0.20 %	

Descriptive Properties	Value	Comments
ASTM Classification	G	
Material Consumption per 1 m3	2750 kg	
Mixing Water	8-10 liters	per 100 kgs dry material

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