

Gouda Vuurvast CURON 150 GM Dense Refractory Castable

Category : Ceramic , Oxide , Aluminum Oxide

Material Notes:

Description: Curon 150 GM is a gunmix based on sintered bauxite with an excellent thermal shock resistance and is therefore very well suited for burner blocks. 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-150-GM-Dense-Refractory-Castable.php

Physical Properties	Metric	English	Comments
Bulk Density	2.35 - 2.45 g/cc	0.0849 - 0.0885 lb/in ³	After drying at 110 ^o C
Particle Size	<= 4000 μ m	<= 4000 μ m	Grain Size

Mechanical Properties	Metric	English	Comments
Compressive Strength	20.0 - 30.0 MPa	2900 - 4350 psi	Cold Crushing Strength
	@Temperature 1400 $\text{\AA}^{\circ}$ C	@Temperature 2550 $\text{\AA}^{\circ}$ F	
	30.0 - 40.0 MPa	4350 - 5800 psi	Cold Crushing Strength
	@Temperature 100 $\text{\AA}^{\circ}$ C	@Temperature 212 $\text{\AA}^{\circ}$ F	

Thermal Properties	Metric	English	Comments
Thermal Conductivity	0.670 - 0.770 W/m-K	4.65 - 5.34 BTU-in/hr-ft ² - $\text{\AA}^{\circ}$ F	
	@Temperature 100 $\text{\AA}^{\circ}$ C	@Temperature 212 $\text{\AA}^{\circ}$ F	
	0.720 - 0.820 W/m-K	5.00 - 5.69 BTU-in/hr-ft ² - $\text{\AA}^{\circ}$ F	
	@Temperature 600 $\text{\AA}^{\circ}$ C	@Temperature 1110 $\text{\AA}^{\circ}$ F	
	0.850 - 0.950 W/m-K	5.90 - 6.59 BTU-in/hr-ft ² - $\text{\AA}^{\circ}$ F	
	@Temperature 1400 $\text{\AA}^{\circ}$ C	@Temperature 2550 $\text{\AA}^{\circ}$ F	
Maximum Service Temperature, Air	1500 $\text{\AA}^{\circ}$ C	2730 $\text{\AA}^{\circ}$ F	
Shrinkage	-0.400 - 0.400 %	-0.400 - 0.400 %	Permanent Linear Change
	@Temperature 1400 $\text{\AA}^{\circ}$ C	@Temperature 2550 $\text{\AA}^{\circ}$ F	

Component Elements Properties	Metric	English	Comments
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AI2O3 Component Elements Properties	75 % Metric	75 % English	Comments
SiO2	6.0 %	6.0 %	

Descriptive Properties	Value	Comments
ASTM Classification	D	
Material Consumption per 1 m3	2650 kg	

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