

Gouda Vuurvast CURON 110 C AL Dense Refractory Castable

Category : Ceramic , Oxide , Aluminum Oxide , Silicon Oxide

Material Notes:

Description: Because of special addition this coarse castable shows a very good resistance against liquid aluminum metal. 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-110-C-AL-Dense-Refractory-Castable.php

Physical Properties	Metric	English	Comments
Bulk Density	1.95 - 2.05 g/cc	0.0704 - 0.0741 lb/in ³	After drying at 110 ^o C
Particle Size	<= 8000 μ m	<= 8000 μ m	Grain Size

Mechanical Properties	Metric	English	Comments
Compressive Strength	25.0 - 35.0 MPa	3630 - 5080 psi	Cold Crushing Strength
	@Temperature 100 ^o C	@Temperature 212 ^o F	
Compressive Strength	25.0 - 35.0 MPa	3630 - 5080 psi	Cold Crushing Strength
	@Temperature 1000 ^o C	@Temperature 1830 ^o F	

Thermal Properties	Metric	English	Comments
Thermal Conductivity	0.470 - 0.570 W/m-K	3.26 - 3.96 BTU-in/hr-ft ² - ^o F	
	@Temperature 100 ^o C	@Temperature 212 ^o F	
Thermal Conductivity	0.510 - 0.610 W/m-K	3.54 - 4.23 BTU-in/hr-ft ² - ^o F	
	@Temperature 600 ^o C	@Temperature 1110 ^o F	
Thermal Conductivity	0.550 - 0.650 W/m-K	3.82 - 4.51 BTU-in/hr-ft ² - ^o F	
	@Temperature 1000 ^o C	@Temperature 1830 ^o F	
Maximum Service Temperature, Air	1100 ^o C	2010 ^o F	
Shrinkage	-0.300 - 0.300 %	-0.300 - 0.300 %	Permanent Linear Change
	@Temperature 1000 ^o C	@Temperature 1830 ^o F	

Component Elements Properties	Metric	English	Comments

Al2O3 Component Elements Properties	Metric 27 %	English 27 %	Comments
BaO	5.0 %	5.0 %	
SiO2	48 %	48 %	

Descriptive Properties	Value	Comments
ASTM Classification	A	
Material Consumption per 1 m3	1900 kg	
Mixing Water	13-16 liters	per 100 kgs dry material

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