

Gouda Vuurvast CURON 120 LC 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-120-LC-AL-Dense-Refractory-Castable.php

Physical Properties	Metric	English	Comments
Bulk Density	1.70 - 1.80 g/cc	0.0614 - 0.0650 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	20.0 - 30.0 MPa	2900 - 4350 psi	Cold Crushing Strength
	@Temperature 100 ^o C	@Temperature 212 ^o F	
Compressive Strength	20.0 - 30.0 MPa	2900 - 4350 psi	Cold Crushing Strength
	@Temperature 1000 ^o C	@Temperature 1830 ^o F	

Thermal Properties	Metric	English	Comments
Thermal Conductivity	0.370 - 0.470 W/m-K	2.57 - 3.26 BTU-in/hr-ft ² - ^o F	
	@Temperature 100 ^o C	@Temperature 212 ^o F	
Thermal Conductivity	0.420 - 0.520 W/m-K	2.91 - 3.61 BTU-in/hr-ft ² - ^o F	
	@Temperature 600 ^o C	@Temperature 1110 ^o F	
Thermal Conductivity	0.450 - 0.550 W/m-K	3.12 - 3.82 BTU-in/hr-ft ² - ^o F	
	@Temperature 1000 ^o C	@Temperature 1830 ^o F	
Maximum Service Temperature, Air	1200 ^o C	2190 ^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	32 % Metric	32 % English	Comments
SiO2	48 %	48 %	

Descriptive Properties	Value	Comments
Material Consumption per 1 m3	1700 kg	
Mixing Water	13-16 liters	per 100 kgs dry material

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