

Gouda Vuurvast CURON 130 HRC AL Dense Refractory Castable

Category : Ceramic , Oxide , Aluminum Oxide , Silicon Oxide

Material Notes:

Description: Because of special addition this castable is used for the walls above the liquid level in aluminum melting furnaces. 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-130-HRC-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	35.0 - 45.0 MPa	5080 - 6530 psi	Cold Crushing Strength
	@Temperature 1000 \AA °C	@Temperature 1830 \AA °F	
	45.0 - 55.0 MPa	6530 - 7980 psi	Cold Crushing Strength
	@Temperature 100 \AA °C	@Temperature 212 \AA °F	

Thermal Properties	Metric	English	Comments
Thermal Conductivity	0.470 - 0.570 W/m-K	3.26 - 3.96 BTU-in/hr-ft ² - \AA °F	
	@Temperature 100 \AA °C	@Temperature 212 \AA °F	
	0.510 - 0.610 W/m-K	3.54 - 4.23 BTU-in/hr-ft ² - \AA °F	
	@Temperature 600 \AA °C	@Temperature 1110 \AA °F	
	0.550 - 0.650 W/m-K	3.82 - 4.51 BTU-in/hr-ft ² - \AA °F	
	@Temperature 1000 \AA °C	@Temperature 1830 \AA °F	
Maximum Service Temperature, Air	1300 \AA °C	2370 \AA °F	
Shrinkage	-0.300 - 0.100 %	-0.300 - 0.100 %	Permanent Linear Change
	@Temperature 1000 \AA °C	@Temperature 1830 \AA °F	

Component Elements Properties	Metric	English	Comments

Al2O3 Component Elements Properties	36 % Metric	36 % English	Comments
BaO	5.0 %	5.0 %	
SiO2	46 %	46 %	

Descriptive Properties	Value	Comments
ASTM Classification	B	
Material Consumption per 1 m3	1900 kg	
Mixing Water	12-15 liters	per 100 kgs dry material

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