

Gouda Vuurvast CURON 13 S Dense Refractory Castable

Category : Ceramic , Oxide , Aluminum Oxide

Material Notes:

Description: Curon 13 S is a spinel based castable with a very low silica content and therefore it is suitable for direct contact with all kinds of aluminum/alloys and fluxes in aluminum melting/holding furnaces and ladles. Due to its unique raw materials, Curon 13 S contains two hydraulic binders and therefore will remain very strong, even at high temperature. Curon 13 S is therefore worldwide used in the aluminum and cement industry. Remarks: These values apply to cast products. Also available in gunning variety, marked "GM". Information provided by Gouda Vuurvast.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Gouda-Vuurvast-CURON-13-S-Dense-Refractory-Castable.php

Physical Properties	Metric	English	Comments
Bulk Density	2.50 - 2.60 g/cc	0.0903 - 0.0939 lb/in ³	After drying at 110 ^o C
Particle Size	<= 7000 μ m	<= 7000 μ m	Grain Size

Mechanical Properties	Metric	English	Comments
Compressive Strength	45.0 - 55.0 MPa	6530 - 7980 psi	Cold Crushing Strength
	@Temperature 1000 $\text{\AA}^{\circ}$ C	@Temperature 1830 $\text{\AA}^{\circ}$ F	
	65.0 - 75.0 MPa	9430 - 10900 psi	Cold Crushing Strength
	@Temperature 100 $\text{\AA}^{\circ}$ C	@Temperature 212 $\text{\AA}^{\circ}$ F	

Thermal Properties	Metric	English	Comments
Thermal Conductivity	0.780 - 0.880 W/m-K	5.41 - 6.11 BTU-in/hr-ft ² - $\text{\AA}^{\circ}$ F	
	@Temperature 100 $\text{\AA}^{\circ}$ C	@Temperature 212 $\text{\AA}^{\circ}$ F	
	0.870 - 0.970 W/m-K	6.04 - 6.73 BTU-in/hr-ft ² - $\text{\AA}^{\circ}$ F	
	@Temperature 600 $\text{\AA}^{\circ}$ C	@Temperature 1110 $\text{\AA}^{\circ}$ F	
	0.960 - 1.06 W/m-K	6.66 - 7.36 BTU-in/hr-ft ² - $\text{\AA}^{\circ}$ F	
	@Temperature 1000 $\text{\AA}^{\circ}$ C	@Temperature 1830 $\text{\AA}^{\circ}$ F	
Maximum Service Temperature, Air	1300 $\text{\AA}^{\circ}$ C	2370 $\text{\AA}^{\circ}$ F	
Shrinkage	-0.150 - 0.150 %	-0.150 - 0.150 %	Permanent Linear Change
	@Temperature 1000	@Temperature 1830	

Thermal Properties	°C Metric	°F English	Comments
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Component Elements Properties	Metric	English	Comments
Al2O3	67 %	67 %	
SiO2	3.0 %	3.0 %	

Descriptive Properties	Value	Comments
ASTM Classification	B	
Material Consumption per 1 m3	2450 kg	
Mixing Water	8-10 liters	per 100 kgs dry material

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