

Gouda Vuurvast CURON 120 S Dense Refractory Castable

Category : Ceramic , Oxide , Aluminum Oxide

Material Notes:

Description: A very strong castable with a high abrasion resistance of which both aggregate and cement attribute to hydraulic binding. 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-120-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	<= 4000 μ m	<= 4000 μ m	Grain Size

Mechanical Properties	Metric	English	Comments
Compressive Strength	40.0 - 50.0 MPa	5800 - 7250 psi	Cold Crushing Strength
	@Temperature 1000 $\text{\AA}^{\circ}\text{C}$	@Temperature 1830 $\text{\AA}^{\circ}\text{F}$	
	75.0 - 85.0 MPa	10900 - 12300 psi	Cold Crushing Strength
	@Temperature 100 $\text{\AA}^{\circ}\text{C}$	@Temperature 212 $\text{\AA}^{\circ}\text{F}$	

Thermal Properties	Metric	English	Comments
Thermal Conductivity	0.870 - 0.970 W/m-K	6.04 - 6.73 BTU-in/hr-ft ² - $\text{\AA}^{\circ}\text{F}$	
	@Temperature 100 $\text{\AA}^{\circ}\text{C}$	@Temperature 212 $\text{\AA}^{\circ}\text{F}$	
	1.09 - 1.19 W/m-K	7.56 - 8.26 BTU-in/hr-ft ² - $\text{\AA}^{\circ}\text{F}$	
	@Temperature 600 $\text{\AA}^{\circ}\text{C}$	@Temperature 1110 $\text{\AA}^{\circ}\text{F}$	
	1.22 - 1.32 W/m-K	8.47 - 9.16 BTU-in/hr-ft ² - $\text{\AA}^{\circ}\text{F}$	
	@Temperature 1000 $\text{\AA}^{\circ}\text{C}$	@Temperature 1830 $\text{\AA}^{\circ}\text{F}$	
Maximum Service Temperature, Air	1200 $\text{\AA}^{\circ}\text{C}$	2190 $\text{\AA}^{\circ}\text{F}$	
Shrinkage	-0.200 - 0.600 %	-0.200 - 0.600 %	Permanent Linear Change
	@Temperature 1000 $\text{\AA}^{\circ}\text{C}$	@Temperature 1830 $\text{\AA}^{\circ}\text{F}$	

Component Elements Properties	Metric	English	Comments
Al2O3	39 %	39 %	
CaO	40 %	40 %	
SiO2	4.0 %	4.0 %	

Descriptive Properties	Value	Comments
ASTM Classification	A	
Material Consumption per 1 m3	2500 kg	
Mixing Water	9-11 liters	per 100 kgs dry material

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