

Gouda Vuurvast CURON 14 S Dense Refractory Castable

Category : Ceramic , Oxide , Aluminum Oxide

Material Notes:

Description: Curon 14 S is a dense, strong and abrasion resistant castable. Because of the very low percentage of Fe₂O₃ and SiO₂ it is used for highly abrasive conditions in reducing atmospheres. 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-14-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	<= 6000 μ m	<= 6000 μ m	Grain Size

Mechanical Properties	Metric	English	Comments
Compressive Strength	55.0 - 65.0 MPa	7980 - 9430 psi	Cold Crushing Strength
	@Temperature 1300 \AA ^o C	@Temperature 2370 \AA ^o F	
Compressive Strength	75.0 - 85.0 MPa	10900 - 12300 psi	Cold Crushing Strength
	@Temperature 100 \AA ^o C	@Temperature 212 \AA ^o F	

Thermal Properties	Metric	English	Comments
Thermal Conductivity	0.780 - 0.880 W/m-K	5.41 - 6.11 BTU-in/hr-ft ² - \AA ^o F	
	@Temperature 100 \AA ^o C	@Temperature 212 \AA ^o F	
	0.870 - 0.970 W/m-K	6.04 - 6.73 BTU-in/hr-ft ² - \AA ^o F	
Thermal Conductivity	@Temperature 600 \AA ^o C	@Temperature 1110 \AA ^o F	
	1.03 - 1.13 W/m-K	7.15 - 7.84 BTU-in/hr-ft ² - \AA ^o F	
Thermal Conductivity	@Temperature 1300 \AA ^o C	@Temperature 2370 \AA ^o F	
	Maximum Service Temperature, Air	1400 \AA ^o C	
Shrinkage	-0.800 - 0.800 %	-0.800 - 0.800 %	Permanent Linear Change
	@Temperature 1300 \AA ^o C	@Temperature 2370 \AA ^o F	

Component Elements Properties	Metric	English	Comments
Al2O3	76 %	76 %	
Fe2O3	<= 0.50 %	<= 0.50 %	
SiO2	<= 2.0 %	<= 2.0 %	

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

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