

Gouda Vuurvast CURON 120 HS Dense Refractory Castable

Category : Ceramic , Oxide , Aluminum Oxide , Silicon Oxide

Material Notes:

Description: This castable has a very good resistance against thermal shocks because of its low thermal expansion. In addition, it has a high strength. Used in incinerators and for tunnel kiln cars. 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-HS-Dense-Refractory-Castable.php

Physical Properties	Metric	English	Comments
Bulk Density	1.90 - 2.00 g/cc	0.0686 - 0.0723 lb/in ³	After drying at 110 ^o C
Particle Size	<= 5000 μ m	<= 5000 μ m	Grain Size

Mechanical Properties	Metric	English	Comments
Compressive Strength	25.0 - 35.0 MPa	3630 - 5080 psi	Cold Crushing Strength
	@Temperature 1000 \AA ^o C	@Temperature 1830 \AA ^o F	
Compressive Strength	40.0 - 50.0 MPa	5800 - 7250 psi	Cold Crushing Strength
	@Temperature 100 \AA ^o C	@Temperature 212 \AA ^o 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 ^o F	
	@Temperature 100 \AA ^o C	@Temperature 212 \AA ^o F	
Thermal Conductivity	0.510 - 0.610 W/m-K	3.54 - 4.23 BTU-in/hr-ft ² - \AA ^o F	
	@Temperature 600 \AA ^o C	@Temperature 1110 \AA ^o F	
Thermal Conductivity	0.550 - 0.650 W/m-K	3.82 - 4.51 BTU-in/hr-ft ² - \AA ^o F	
	@Temperature 1000 \AA ^o C	@Temperature 1830 \AA ^o F	
Maximum Service Temperature, Air	1150 \AA ^o C	2100 \AA ^o F	
Shrinkage	-0.800 - 0.200 %	-0.800 - 0.200 %	Permanent Linear Change
	@Temperature 1000 \AA ^o C	@Temperature 1830 \AA ^o F	

Component Elements Properties	Metric	English	Comments
Al2O3	36 %	36 %	
SiO2	45 %	45 %	

Descriptive Properties	Value	Comments
ASTM Classification	A	
Material Consumption per 1 m3	1850 kg	
Mixing Water	14-17 liters	per 100 kgs dry material

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