

Gouda Vuurvast CURON 170 Dense Refractory Castable

Category : Ceramic , Oxide , Aluminum Oxide

Material Notes:

Description: A general purpose castable with a wide range of applications for high temperatures. The low Fe₂O₃ content makes this castable suitable for use under reducing conditions. Remarks: These values apply to cast products. Also available in gunning variety, marked "GM". Other modifications are available on demand. Information provided by Gouda Vuurvast.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Gouda-Vuurvast-CURON-170-Dense-Refractory-Castable.php

Physical Properties	Metric	English	Comments
Bulk Density	2.60 - 2.70 g/cc	0.0939 - 0.0975 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	50.0 - 60.0 MPa	7250 - 8700 psi	Cold Crushing Strength
	@Temperature 100 ^o C	@Temperature 212 ^o F	
	50.0 - 60.0 MPa	7250 - 8700 psi	Cold Crushing Strength
	@Temperature 1300 ^o C	@Temperature 2370 ^o F	

Thermal Properties	Metric	English	Comments
Thermal Conductivity	1.31 - 1.41 W/m-K	9.09 - 9.79 BTU-in/hr-ft ² - ^o F	
	@Temperature 600 ^o C	@Temperature 1110 ^o F	
	1.35 - 1.45 W/m-K	9.37 - 10.1 BTU-in/hr-ft ² - ^o F	
	@Temperature 100 ^o C	@Temperature 212 ^o F	
	1.38 - 1.48 W/m-K	9.58 - 10.3 BTU-in/hr-ft ² - ^o F	
	@Temperature 1300 ^o C	@Temperature 2370 ^o F	
Maximum Service Temperature, Air	1700 ^o C	3090 ^o F	
Shrinkage	-0.300 - 0.300 %	-0.300 - 0.300 %	Permanent Linear Change
	@Temperature 1300 ^o C	@Temperature 2370 ^o F	

Component Elements Properties	Metric	English	Comments
Al2O3	85 %	85 %	
Fe2O3	1.0 %	1.0 %	
SiO2	6.0 %	6.0 %	

Descriptive Properties	Value	Comments
ASTM Classification	F	
Material Consumption per 1 m3	2550 kg	
Mixing Water	8-10 liters	per 100 kgs dry material

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