

Gouda Vuurvast CURON 145 Dense Refractory Castable

Category : Ceramic , Oxide , Aluminum Oxide , Silicon Oxide

Material Notes:

Description: Because of the use of pure raw materials, Curon 145 has a low Fe₂O₃ content. Therefore this castable is widely used in reducing atmospheres. 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-145-Dense-Refractory-Castable.php

Physical Properties	Metric	English	Comments
Bulk Density	2.15 - 2.25 g/cc	0.0777 - 0.0813 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	35.0 - 45.0 MPa	5080 - 6530 psi	Cold Crushing Strength
	@Temperature 1300 \AA ^o C	@Temperature 2370 \AA ^o F	
Compressive Strength	50.0 - 60.0 MPa	7250 - 8700 psi	Cold Crushing Strength
	@Temperature 100 \AA ^o C	@Temperature 212 \AA ^o F	

Thermal Properties	Metric	English	Comments
Thermal Conductivity	0.550 - 0.650 W/m-K	3.82 - 4.51 BTU-in/hr-ft ² - \AA ^o F	
	@Temperature 100 \AA ^o C	@Temperature 212 \AA ^o F	
	0.600 - 0.700 W/m-K	4.16 - 4.86 BTU-in/hr-ft ² - \AA ^o F	
Thermal Conductivity	@Temperature 600 \AA ^o C	@Temperature 1110 \AA ^o F	
	0.670 - 0.770 W/m-K	4.65 - 5.34 BTU-in/hr-ft ² - \AA ^o F	
Thermal Conductivity	@Temperature 1300 \AA ^o C	@Temperature 2370 \AA ^o F	
	Maximum Service Temperature, Air	1450 \AA ^o C	
Shrinkage	-0.300 - 0.300 %	-0.300 - 0.300 %	Permanent Linear Change
	@Temperature 1300 \AA ^o C	@Temperature 2370 \AA ^o F	

Component Elements Properties	Metric	English	Comments
Al2O3	45 %	45 %	
Fe2O3	<= 2.0 %	<= 2.0 %	
SiO2	44 %	44 %	

Descriptive Properties	Value	Comments
ASTM Classification	C	
Material Consumption per 1 m3	2150 kg	
Mixing Water	10-12 liters	per 100 kgs dry material

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