

Gouda Vuurvast CURON 140 K Dense Refractory Silicon Carbide Castable

Category : Ceramic , Carbide

Material Notes:

This castable is based on silicon carbide and widely applied as the protective lining for pipes in boilers and incinerators. Curon 140 K has a high thermal conductivity and a good mechanical strength over the whole range of temperatures. 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-140-K-Dense-Refractory-Silicon-Carbide-Castable.php

Physical Properties	Metric	English	Comments
Bulk Density	2.30 - 2.40 g/cc	0.0831 - 0.0867 lb/in ³	After drying at 110 ^o C
Particle Size	<= 3000 μ m	<= 3000 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	45.0 - 55.0 MPa	6530 - 7980 psi	Cold Crushing Strength
	@Temperature 100 \AA ^o C	@Temperature 212 \AA ^o F	

Thermal Properties	Metric	English	Comments
Thermal Conductivity	3.95 - 4.05 W/m-K	27.4 - 28.1 BTU-in/hr-ft ² - \AA ^o F	
	@Temperature 100 \AA ^o C	@Temperature 212 \AA ^o F	
Thermal Conductivity	4.05 - 4.15 W/m-K	28.1 - 28.8 BTU-in/hr-ft ² - \AA ^o F	
	@Temperature 600 \AA ^o C	@Temperature 1110 \AA ^o F	
Thermal Conductivity	4.05 - 4.15 W/m-K	28.1 - 28.8 BTU-in/hr-ft ² - \AA ^o F	
	@Temperature 1300 \AA ^o C	@Temperature 2370 \AA ^o F	
Maximum Service Temperature, Air	1400 \AA ^o C	2550 \AA ^o F	
Shrinkage	-0.150 - 0.150 %	-0.150 - 0.150 %	Permanent Linear Change
	@Temperature 1300 \AA ^o C	@Temperature 2370 \AA ^o F	

Component Elements Properties	Metric	English	Comments
Al2O3	16 %	16 %	
SiC	60 %	60 %	
SiO2	11 %	11 %	

Descriptive Properties	Value	Comments
ASTM Classification	C	
Material Consumption per 1 m3	2300 kg	
Mixing Water	8-10 liters	per 100 kgs dry material

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