

Gouda Vuurvast CURON 145 C Dense Refractory Castable

Category : Ceramic , Oxide , Aluminum Oxide , Silicon Oxide

Material Notes:

Description: A low carbon castable for use in reducing atmospheres. Curon 145 C has a coarse structure for improved thermal shock resistance. Remarks: These values apply to cast products. Information provided by Gouda Vuurvast.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Gouda-Vuurvast-CURON-145-C-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	<= 6000 μ m	<= 6000 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 °C	@Temperature 2370 \AA °F	
Compressive Strength	45.0 - 55.0 MPa	6530 - 7980 psi	Cold Crushing Strength
	@Temperature 100 \AA °C	@Temperature 212 \AA °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 °F	
	@Temperature 100 \AA °C	@Temperature 212 \AA °F	
Thermal Conductivity	0.600 - 0.700 W/m-K	4.16 - 4.86 BTU-in/hr-ft ² - \AA °F	
	@Temperature 600 \AA °C	@Temperature 1110 \AA °F	
Thermal Conductivity	0.670 - 0.770 W/m-K	4.65 - 5.34 BTU-in/hr-ft ² - \AA °F	
	@Temperature 1300 \AA °C	@Temperature 2370 \AA °F	
Maximum Service Temperature, Air	1450 \AA °C	2640 \AA °F	
Shrinkage	-0.400 - 0.400 %	-0.400 - 0.400 %	Permanent Linear Change
	@Temperature 1300 \AA °C	@Temperature 2370 \AA °F	

Component Elements Properties	Metric	English	Comments

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

Descriptive Properties	Value	Comments
ASTM Classification	C	
Material Consumption per 1 m3	2100 kg	
Mixing Water	10-12 liters	per 100 kgs dry material

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