

Gouda Vuurvast CURON 130 HRC Dense Refractory Castable

Category : Ceramic , Oxide , Aluminum Oxide , Silicon Oxide

Material Notes:

Description: A coarse, low iron castable for use up to 1300°C under normal operation conditions, also usable under reducing circumstances. Curon 130 HRC has a good thermal shock resistance because of its low thermal expansion. 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-130-HRC-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°C
Particle Size	<= 8000 µm	<= 8000 µm	Grain Size

Mechanical Properties	Metric	English	Comments
Compressive Strength	30.0 - 40.0 MPa	4350 - 5800 psi	Cold Crushing Strength
	@Temperature 1000 °C	@Temperature 1830 °F	
Compressive Strength	40.0 - 50.0 MPa	5800 - 7250 psi	Cold Crushing Strength
	@Temperature 100 °C	@Temperature 212 °F	

Thermal Properties	Metric	English	Comments
Thermal Conductivity	0.470 - 0.570 W/m-K	3.26 - 3.96 BTU-in/hr-ft ² -°F	
	@Temperature 100 °C	@Temperature 212 °F	
Thermal Conductivity	0.510 - 0.610 W/m-K	3.54 - 4.23 BTU-in/hr-ft ² -°F	
	@Temperature 600 °C	@Temperature 1110 °F	
Thermal Conductivity	0.550 - 0.650 W/m-K	3.82 - 4.51 BTU-in/hr-ft ² -°F	
	@Temperature 1000 °C	@Temperature 1830 °F	
Maximum Service Temperature, Air	1300 °C	2370 °F	
Shrinkage	-0.300 - 0.100 %	-0.300 - 0.100 %	Permanent Linear Change
	@Temperature 1000 °C	@Temperature 1830 °F	

Component Elements Properties	Metric	English	Comments
Al2O3	38 %	38 %	
SiO2	49 %	49 %	

Descriptive Properties	Value	Comments
ASTM Classification	B	
Material Consumption per 1 m3	1850 kg	
Mixing Water	12-15 liters	per 100 kgs dry material

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