

Gouda Vuurvast CURON 130 HRCC RAPID Dense Refractory Castable

Category : Ceramic , Oxide , Aluminum Oxide , Silicon Oxide

Material Notes:

Description: An extra coarse, low iron castable for use to 1300Â°C under normal operation conditions, also usable under reducing circumstances. Curon 130 HRCC RAPID has good thermal shock resistance because of its low thermal expansion and allows a relatively high heating rate because of special additives. 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-HRCC-RAPID-Dense-Refractory-Castable.php

Physical Properties	Metric	English	Comments
Bulk Density	2.05 - 2.15 g/cc	0.0741 - 0.0777 lb/inÂ³	After drying at 110Â°C
Particle Size	<= 12000 Âµm	<= 12000 Âµm	Grain Size

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

Thermal Properties	Metric	English	Comments
Thermal Conductivity	0.470 - 0.570 W/m-K	3.26 - 3.96 BTU-in/hr-ftÂ²-Â°F	
	@Temperature 100 Â°C	@Temperature 212 Â°F	
	0.510 - 0.610 W/m-K	3.54 - 4.23 BTU-in/hr-ftÂ²-Â°F	
	@Temperature 600 Â°C	@Temperature 1110 Â°F	
	0.550 - 0.650 W/m-K	3.82 - 4.51 BTU-in/hr-ftÂ²-Â°F	
	@Temperature 1000 Â°C	@Temperature 1830 Â°F	
Maximum Service Temperature, Air	1300 Â°C	2370 Â°F	
Shrinkage	-0.300 - 0.100 %	-0.300 - 0.100 %	Permanent Linear Change
	@Temperature 1000 Â°C	@Temperature 1830 Â°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	2050 kg	
Mixing Water	12-15 liters	per 100 kgs dry material

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