

Gouda Vuurvast CURON 150 Dense Refractory Castable

Category : Ceramic , Oxide , Aluminum Oxide

Material Notes:

Description: This bauxite based castable has a very good thermal shock resistance and is therefore well suited for burner blocks. 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-150-Dense-Refractory-Castable.php

Physical Properties	Metric	English	Comments
Bulk Density	2.50 - 2.60 g/cc	0.0903 - 0.0939 lb/in ³	After drying at 110 ^o C
Particle Size	<= 7000 μ m	<= 7000 μ m	Grain Size

Mechanical Properties	Metric	English	Comments
Compressive Strength	35.0 - 45.0 MPa	5080 - 6530 psi	Cold Crushing Strength
	@Temperature 1400 $\text{\AA}^{\circ}\text{C}$	@Temperature 2550 $\text{\AA}^{\circ}\text{F}$	
	50.0 - 60.0 MPa	7250 - 8700 psi	Cold Crushing Strength
	@Temperature 100 $\text{\AA}^{\circ}\text{C}$	@Temperature 212 $\text{\AA}^{\circ}\text{F}$	

Thermal Properties	Metric	English	Comments
Thermal Conductivity	0.770 - 0.870 W/m-K	5.34 - 6.04 BTU-in/hr-ft ² - $\text{\AA}^{\circ}\text{F}$	
	@Temperature 100 $\text{\AA}^{\circ}\text{C}$	@Temperature 212 $\text{\AA}^{\circ}\text{F}$	
	0.820 - 0.920 W/m-K	5.69 - 6.38 BTU-in/hr-ft ² - $\text{\AA}^{\circ}\text{F}$	
	@Temperature 600 $\text{\AA}^{\circ}\text{C}$	@Temperature 1110 $\text{\AA}^{\circ}\text{F}$	
	0.950 - 1.05 W/m-K	6.59 - 7.29 BTU-in/hr-ft ² - $\text{\AA}^{\circ}\text{F}$	
	@Temperature 1400 $\text{\AA}^{\circ}\text{C}$	@Temperature 2550 $\text{\AA}^{\circ}\text{F}$	
Maximum Service Temperature, Air	1600 $\text{\AA}^{\circ}\text{C}$	2910 $\text{\AA}^{\circ}\text{F}$	
Shrinkage	-1.00 - 1.00 %	-1.00 - 1.00 %	Permanent Linear Change
	@Temperature 1400 $\text{\AA}^{\circ}\text{C}$	@Temperature 2550 $\text{\AA}^{\circ}\text{F}$	

Component Elements Properties	Metric	English	Comments
Al2O3	80 %	80 %	
SiO2	9.0 %	9.0 %	

Descriptive Properties	Value	Comments
ASTM Classification	E	
Material Consumption per 1 m3	2450 kg	
Mixing Water	10-12 liters	per 100 kgs dry material

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