

Gouda Vuurvast CURON 180 TF Dense Refractory Castable

Category : Ceramic , Oxide , Aluminum Oxide

Material Notes:

Description: Curon 180 TF is a tabular alumina based castable, highly abrasion resistant, especially developed for application in the vacuum ladle treatment installation in the steel refinery. 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-180-TF-Dense-Refractory-Castable.php

Physical Properties	Metric	English	Comments
Bulk Density	2.65 - 2.75 g/cc	0.0957 - 0.0994 lb/in ³	After drying at 110 ^o C
Particle Size	<= 2000 μ m	<= 2000 μ m	Grain Size

Mechanical Properties	Metric	English	Comments
Compressive Strength	40.0 - 50.0 MPa	5800 - 7250 psi	Cold Crushing Strength
	@Temperature 100 ^o C	@Temperature 212 ^o F	
	45.0 - 55.0 MPa	6530 - 7980 psi	Cold Crushing Strength
	@Temperature 1600 ^o C	@Temperature 2910 ^o F	

Thermal Properties	Metric	English	Comments
Thermal Conductivity	1.28 - 1.48 W/m-K	8.88 - 10.3 BTU-in/hr-ft ² - ^o F	
	@Temperature 600 ^o C	@Temperature 1110 ^o F	
	1.35 - 1.55 W/m-K	9.37 - 10.8 BTU-in/hr-ft ² - ^o F	
	@Temperature 1600 ^o C	@Temperature 2910 ^o F	
	1.45 - 1.65 W/m-K	10.1 - 11.5 BTU-in/hr-ft ² - ^o F	
	@Temperature 100 ^o C	@Temperature 212 ^o F	
Maximum Service Temperature, Air	1800 ^o C	3270 ^o F	
Shrinkage	-0.500 - 0.500 %	-0.500 - 0.500 %	Permanent Linear Change
	@Temperature 1600 ^o C	@Temperature 2910 ^o F	

Component Elements Properties	Metric	English	Comments
Al2O3	94 %	94 %	
CaO	4.5 %	4.5 %	
Fe2O3	0.20 %	0.20 %	
SiO2	0.20 %	0.20 %	

Descriptive Properties	Value	Comments
ASTM Classification	G	
Material Consumption per 1 m3	2600 kg	
Mixing Water	10-11 liters	per 100 kgs dry material

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