

Gouda Vuurvast CURAS 90 SPF Moldable Refractory Material

Category : Ceramic , Oxide , Aluminum Oxide

Material Notes:

Description: Curas 90 S PF is a moldable which is characterized by its outstanding abrasion resistance (acc. to ASTM C-704: < 3 cc). This material is supplied as a powder which only has to be mixed with potable water to the required consistency. Curas 90 S PF is applied, for example, in FCC units. It can be installed very efficiently, instructions for use are available. Information provided by Gouda Vuurvast.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Gouda-Vuurvast-CURAS-90-SPF-Moldable-Refractory-Material.php

Physical Properties	Metric	English	Comments
Bulk Density	2.70 - 2.80 g/cc	0.0975 - 0.101 lb/in ³	After drying at 110 ^o C

Mechanical Properties	Metric	English	Comments
Compressive Strength	115 - 125 MPa	16700 - 18100 psi	Cold Crushing Strength
	@Temperature 100 ^o C	@Temperature 212 ^o F	
	150 - 170 MPa	21800 - 24700 psi	Cold Crushing Strength
	@Temperature 1300 ^o C	@Temperature 2370 ^o F	

Thermal Properties	Metric	English	Comments
Thermal Conductivity	0.850 - 0.950 W/m-K	5.90 - 6.59 BTU-in/hr-ft ² - ^o F	
	@Temperature 100 ^o C	@Temperature 212 ^o F	
	0.930 - 1.13 W/m-K	6.45 - 7.84 BTU-in/hr-ft ² - ^o F	
	@Temperature 600 ^o C	@Temperature 1110 ^o F	
	1.23 - 1.43 W/m-K	8.54 - 9.92 BTU-in/hr-ft ² - ^o F	
	@Temperature 1300 ^o C	@Temperature 2370 ^o F	
Maximum Service Temperature, Air	1600 ^o C	2910 ^o F	
Shrinkage	-0.200 - 0.200 %	-0.200 - 0.200 %	Permanent Linear Change
	@Temperature 1300 ^o C	@Temperature 2370 ^o F	

Component Elements Properties	Metric	English	Comments
Al2O3	82 %	82 %	

Component Elements Properties	Metric	English	Comments
SiO2	13 %	13 %	
TiO2	2.0 %	2.0 %	

Descriptive Properties	Value	Comments
Bonding Type	chemical/ceramic	
Material Consumption per 1 m3	2700 kg	
Mixing Water	4-5.5 liters	per 100 kgs dry material
Segeccone	Min 37	

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