

Gouda Vuurvast CURAS 85 PD Moldable Refractory Material

Category : Ceramic , Oxide , Aluminum Oxide

Material Notes:

Description: This material is supplied as a dry powder, it has to be mixed with potable water to the necessary consistency. This phosphate bonded material based on corundum and bauxite has a very good resistance against slag attack or liquid aluminum. The mechanical strength of this product is developed after heating above 150°C. Remarks: The stated chemical composition and physical properties represent average values. Information provided by Gouda Vuurvast.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Gouda-Vuurvast-CURAS-85-PD-Moldable-Refractory-Material.php

Physical Properties	Metric	English	Comments
Bulk Density	2.80 - 2.90 g/cc	0.101 - 0.105 lb/in ³	After drying at 110°C

Thermal Properties	Metric	English	Comments
Thermal Conductivity	0.890 - 0.990 W/m-K	6.18 - 6.87 BTU-in/hr-ft ² -°F	
	@Temperature 100 °C	@Temperature 212 °F	
	0.970 - 1.17 W/m-K	6.73 - 8.12 BTU-in/hr-ft ² -°F	
	@Temperature 600 °C	@Temperature 1110 °F	
	1.44 - 1.64 W/m-K	9.99 - 11.4 BTU-in/hr-ft ² -°F	
	@Temperature 1600 °C	@Temperature 2910 °F	
Maximum Service Temperature, Air	1650 °C	3000 °F	
Shrinkage	-1.50 - 1.50 %	-1.50 - 1.50 %	Permanent Linear Change
	@Temperature 1600 °C	@Temperature 2910 °F	

Component Elements Properties	Metric	English	Comments
Al ₂ O ₃	84 %	84 %	
Fe ₂ O ₃	<= 1.0 %	<= 1.0 %	
SiO ₂	11 %	11 %	

Descriptive Properties	Value	Comments
Bonding Type	chemical/ceramic	

Descriptive Properties per 1 m ³	Value ^{kg}	Comments
Mixing Water	8-10 liters	per 100 kgs dry material
Segeccone	37	

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