

Gouda Vuurvast CURAS 50 PD Moldable Refractory Material

Category : Ceramic , Oxide , Aluminum Oxide , Silicon Oxide

Material Notes:

Description: This material is supplied as a dry powder, it has to be mixed with potable water to the necessary consistency. Because of the addition of phosphate this type of moldable has a high strength over the full temperature range. The mechanical strength of this material develops 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-50-PD-Moldable-Refractory-Material.php

Physical Properties	Metric	English	Comments
Bulk Density	2.20 - 2.30 g/cc	0.0795 - 0.0831 lb/in ³	After drying at 110°C

Thermal Properties	Metric	English	Comments
Thermal Conductivity	0.700 - 0.800 W/m-K	4.86 - 5.55 BTU-in/hr-ft ² -°F	
	@Temperature 100 °C	@Temperature 212 °F	
	0.830 - 0.930 W/m-K	5.76 - 6.45 BTU-in/hr-ft ² -°F	
	@Temperature 600 °C	@Temperature 1110 °F	
	0.960 - 1.06 W/m-K	6.66 - 7.36 BTU-in/hr-ft ² -°F	
	@Temperature 1400 °C	@Temperature 2550 °F	
Maximum Service Temperature, Air	1500 °C	2730 °F	
Shrinkage	-2.00 - 2.00 %	-2.00 - 2.00 %	Permanent Linear Change
	@Temperature 1400 °C	@Temperature 2550 °F	

Component Elements Properties	Metric	English	Comments
Al2O3	50 %	50 %	
Fe2O3	2.0 %	2.0 %	
SiO2	40 %	40 %	

Descriptive Properties	Value	Comments
Bonding Type	chemical/ceramic	

Descriptive Properties per 1 m3	Value ^{kg}	Comments
Mixing Water	9-11 liters	per 100 kgs dry material
Segeccone	33	

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