

## Gouda Vuurvast CURAS 90 PFM Moldable Refractory Material

Category : Ceramic , Oxide , Aluminum Oxide

### Material Notes:

Description: Curas 90 PFM ramming mix has outstanding abrasion properties, (erosion loss acc. ASTM C704: 2-4 cm<sup>3</sup>). In addition, it has a good resistance against thermal shock and corrosive gasses. The product is supplied in two components: a dry powder and a liquid. Curas 90 PFM is applied in the hydrocarbon processing industry. 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-90-PFM-Moldable-Refractory-Material.php](http://www.lookpolymers.com/polymer_Gouda-Vuurvast-CURAS-90-PFM-Moldable-Refractory-Material.php)

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

Mechanical Properties	Metric	English	Comments
Compressive Strength	85.0 - 95.0 MPa	12300 - 13800 psi	Cold Crushing Strength
	@Temperature 100 <sup>o</sup> C	@Temperature 212 <sup>o</sup> F	
	120 - 140 MPa	17400 - 20300 psi	Cold Crushing Strength
	@Temperature 1600 <sup>o</sup> C	@Temperature 2910 <sup>o</sup> F	

Thermal Properties	Metric	English	Comments
Thermal Conductivity	1.19 - 1.39 W/m-K	8.26 - 9.65 BTU-in/hr-ft <sup>2</sup> - <sup>o</sup> F	
	@Temperature 1600 <sup>o</sup> C	@Temperature 2910 <sup>o</sup> F	
	1.23 - 1.43 W/m-K	8.54 - 9.92 BTU-in/hr-ft <sup>2</sup> - <sup>o</sup> F	
	@Temperature 600 <sup>o</sup> C	@Temperature 1110 <sup>o</sup> F	
	1.25 - 1.45 W/m-K	8.68 - 10.1 BTU-in/hr-ft <sup>2</sup> - <sup>o</sup> F	
	@Temperature 100 <sup>o</sup> C	@Temperature 212 <sup>o</sup> F	
Maximum Service Temperature, Air	1850 <sup>o</sup> C	3360 <sup>o</sup> F	
Shrinkage	-1.10 - 0.900 %	-1.10 - 0.900 %	Permanent Linear Change
	@Temperature 1600 <sup>o</sup> C	@Temperature 2910 <sup>o</sup> F	

Component Elements Properties	Metric	English	Comments
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Component Elements Properties	Metric	English	Comments
Fe2O3	0.15 %	0.15 %	
P2O5	3.0 %	3.0 %	
SiO2	6.0 %	6.0 %	

Descriptive Properties	Value	Comments
Bonding Type	chemical/ceramic	
Material Consumption per 1 m3	2900 kg	
Segeccone	40	

## Contact Songhan Plastic Technology Co.,Ltd.

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