

## Gouda Vuurvast CURON 13 SC Dense Refractory Castable

Category : Ceramic , Oxide , Aluminum Oxide

### Material Notes:

Description: Curon 13 SC is a spinel based castable with a very low silica content and therefore it is suitable for direct contact with all kinds of aluminum/alloys and fluxes in aluminum melting/holding furnaces and ladles. Due to its unique raw materials, Curon 13 S contains two hydraulic binders and therefore will remain very strong. Curon 13 SC is worldwide used in the aluminum and cement industry. 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-13-SC-Dense-Refractory-Castable.php](http://www.lookpolymers.com/polymer_Gouda-Vuurvast-CURON-13-SC-Dense-Refractory-Castable.php)

Physical Properties	Metric	English	Comments
Bulk Density	2.50 - 2.60 g/cc	0.0903 - 0.0939 lb/in <sup>3</sup>	After drying at 110 <sup>o</sup> C
Particle Size	<= 10000 $\mu$ m	<= 10000 $\mu$ m	Grain Size

Mechanical Properties	Metric	English	Comments
Compressive Strength	40.0 - 50.0 MPa	5800 - 7250 psi	Cold Crushing Strength
	@Temperature 1000 $\text{\AA}$ <sup>o</sup> C	@Temperature 1830 $\text{\AA}$ <sup>o</sup> F	
Compressive Strength	60.0 - 70.0 MPa	8700 - 10200 psi	Cold Crushing Strength
	@Temperature 100 $\text{\AA}$ <sup>o</sup> C	@Temperature 212 $\text{\AA}$ <sup>o</sup> F	

Thermal Properties	Metric	English	Comments
Thermal Conductivity	0.780 - 0.880 W/m-K	5.41 - 6.11 BTU-in/hr-ft <sup>2</sup> - $\text{\AA}$ <sup>o</sup> F	
	@Temperature 100 $\text{\AA}$ <sup>o</sup> C	@Temperature 212 $\text{\AA}$ <sup>o</sup> F	
Thermal Conductivity	0.870 - 0.970 W/m-K	6.04 - 6.73 BTU-in/hr-ft <sup>2</sup> - $\text{\AA}$ <sup>o</sup> F	
	@Temperature 600 $\text{\AA}$ <sup>o</sup> C	@Temperature 1110 $\text{\AA}$ <sup>o</sup> F	
Thermal Conductivity	0.960 - 1.06 W/m-K	6.66 - 7.36 BTU-in/hr-ft <sup>2</sup> - $\text{\AA}$ <sup>o</sup> F	
	@Temperature 1000 $\text{\AA}$ <sup>o</sup> C	@Temperature 1830 $\text{\AA}$ <sup>o</sup> F	
Maximum Service Temperature, Air	1300 $\text{\AA}$ <sup>o</sup> C	2370 $\text{\AA}$ <sup>o</sup> F	
Shrinkage	-0.150 - 0.150 %	-0.150 - 0.150 %	Permanent Linear Change
	@Temperature 1000 $\text{\AA}$ <sup>o</sup> C	@Temperature 1830 $\text{\AA}$ <sup>o</sup> F	

Component Elements Properties	Metric	English	Comments
Al2O3	67 %	67 %	
SiO2	3.0 %	3.0 %	

Descriptive Properties	Value	Comments
ASTM Classification	B	
Material Consumption per 1 m3	2500 kg	
Mixing Water	8-10 liters	per 100 kgs dry material

## Contact Songhan Plastic Technology Co.,Ltd.

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