

## Gouda Vuurvast GOLITE 180 Refractory Insulating Castable

Category : Ceramic , Oxide , Aluminum Oxide

### Material Notes:

Description: Hollow alumina spheres are used as an aggregate for this castable. With very low percentages of Fe<sub>2</sub>O<sub>3</sub> and SiO<sub>2</sub>, it is well resistant against reducing and corrosive kiln atmospheres. Remarks: These values apply to cast products. Also available in gunning variety, marked "GM". Information provided by Gouda Vuurvast.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Gouda-Vuurvast-GOLITE-180-Refractory-Insulating-Castable.php](http://www.lookpolymers.com/polymer_Gouda-Vuurvast-GOLITE-180-Refractory-Insulating-Castable.php)

Physical Properties	Metric	English	Comments
Bulk Density	1.40 - 1.50 g/cc	0.0506 - 0.0542 lb/in <sup>3</sup>	After drying at 110°C
Particle Size	<= 5000 µm	<= 5000 µm	Grain Size

Mechanical Properties	Metric	English	Comments
Compressive Strength	13.0 - 17.0 MPa	1890 - 2470 psi	Cold Crushing Strength
	@Temperature 1500 °C	@Temperature 2730 °F	
	14.0 - 18.0 MPa	2030 - 2610 psi	Cold Crushing Strength
	@Temperature 100 °C	@Temperature 212 °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> -°F	
	@Temperature 1500 °C	@Temperature 2730 °F	
	1.22 - 1.42 W/m-K	8.47 - 9.85 BTU-in/hr-ft <sup>2</sup> -°F	
	@Temperature 600 °C	@Temperature 1110 °F	
	1.80 - 2.20 W/m-K	12.5 - 15.3 BTU-in/hr-ft <sup>2</sup> -°F	
	@Temperature 100 °C	@Temperature 212 °F	
Maximum Service Temperature, Air	1800 °C	3270 °F	
Shrinkage	-0.300 - 0.500 %	-0.300 - 0.500 %	Permanent Linear Change
	@Temperature 1500 °C	@Temperature 2730 °F	

Component Elements Properties	Metric	English	Comments
Al <sub>2</sub> O <sub>3</sub>	94 %	94 %	

Fe2O3 Component Elements Properties	$\leq 0.20\%$ Metric	$\leq 0.20\%$ English	Comments
SiO2	$\leq 0.50\%$	$\leq 0.50\%$	

Descriptive Properties	Value	Comments
ASTM Classification	V	
Material Consumption per 1 m3	1400 kg	
Mixing Water	17-22 liters	per 100 kgs dry material

## Contact Songhan Plastic Technology Co.,Ltd.

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