

## Gouda Vuurvast SiC 70 Dense Refractory Brick

Category : Ceramic , Oxide , Silicon Oxide

### Material Notes:

Description: This type of brick, based on silicon carbide, is because of a very good thermal shock resistance, abrasion resistance and a high thermal conductivity very well suited for waste incinerator furnaces, aluminum furnaces, muffle furnaces and applications where a high abrasive resistance is required. Remarks: This data represents average values, obtained from samples that were cut from standard bricks. Information provided by Gouda Vuurvast.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Gouda-Vuurvast-SiC-70-Dense-Refractory-Brick.php](http://www.lookpolymers.com/polymer_Gouda-Vuurvast-SiC-70-Dense-Refractory-Brick.php)

Physical Properties	Metric	English	Comments
Density	2.55 g/cc	0.0921 lb/in <sup>3</sup>	Apparent
Porosity	16 %	16 %	Apparent

Mechanical Properties	Metric	English	Comments
Compressive Strength	150 MPa	21800 psi	Cold Crushing Strength

Thermal Properties	Metric	English	Comments
Thermal Conductivity	6.50 W/m-K	45.1 BTU-in/hr-ft <sup>2</sup> -°F	
	@Temperature 1100 °C	@Temperature 2010 °F	
	7.10 W/m-K	49.3 BTU-in/hr-ft <sup>2</sup> -°F	
	@Temperature 650 °C	@Temperature 1200 °F	
	8.50 W/m-K	59.0 BTU-in/hr-ft <sup>2</sup> -°F	
	@Temperature 100 °C	@Temperature 212 °F	
Maximum Service Temperature, Air	1550 °C	2820 °F	Deformation under load - t <sub>a</sub>
	1550 °C	2820 °F	

Component Elements Properties	Metric	English	Comments
SiO <sub>2</sub>	70 %	70 %	

Descriptive Properties	Value	Comments
Thermal Shock Resistance	Min 30 cycles	DIN 51068

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