

## Gouda Vuurvast AK 98 Dense Refractory Brick

Category : Ceramic , Oxide , Aluminum Oxide

### Material Notes:

Description: This high alumina brick finds wide application in chemical reactors. The firing temperature of these bricks is very high, which results in an improved thermal shock resistance and better mechanical properties. 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-AK-98-Dense-Refractory-Brick.php](http://www.lookpolymers.com/polymer_Gouda-Vuurvast-AK-98-Dense-Refractory-Brick.php)

Physical Properties	Metric	English	Comments
Density	3.20 g/cc	0.116 lb/in <sup>3</sup>	Apparent
Porosity	18 %	18 %	Apparent

Mechanical Properties	Metric	English	Comments
Compressive Strength	70.0 MPa	10200 psi	Cold Crushing Strength

Thermal Properties	Metric	English	Comments
Thermal Conductivity	3.20 W/m-K	22.2 BTU-in/hr-ft <sup>2</sup> - °F	
	@Temperature 650 °C	@Temperature 1200 °F	
	3.20 W/m-K	22.2 BTU-in/hr-ft <sup>2</sup> - °F	
	@Temperature 1100 °C	@Temperature 2010 °F	
	5.00 W/m-K	34.7 BTU-in/hr-ft <sup>2</sup> - °F	
	@Temperature 100 °C	@Temperature 212 °F	
Maximum Service Temperature, Air	>= 1750 °C	>= 3180 °F	Deformation under load - t <sub>a</sub>
	1800 °C	3270 °F	

Component Elements Properties	Metric	English	Comments
Al <sub>2</sub> O <sub>3</sub>	98 %	98 %	
Fe <sub>2</sub> O <sub>3</sub>	0.15 %	0.15 %	
SiO <sub>2</sub>	1.5 %	1.5 %	

Descriptive Properties	Value	Comments
Segecone	42	
Thermal Shock Resistance	20 cycles	DIN 51068

## Contact Songhan Plastic Technology Co.,Ltd.

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