

## Gouda Vuurvast A 1 S Dense Refractory Brick

Category : Ceramic , Oxide , Aluminum Oxide , Silicon Oxide

### Material Notes:

Description: A brick with a high creep resistance, successfully applied in anode baking furnaces and in the transition zone of rotary cement kilns. 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-A-1-S-Dense-Refractory-Brick.php](http://www.lookpolymers.com/polymer_Gouda-Vuurvast-A-1-S-Dense-Refractory-Brick.php)

Physical Properties	Metric	English	Comments
Density	2.25 g/cc	0.0813 lb/in <sup>3</sup>	Apparent
Porosity	17 %	17 %	Apparent

Mechanical Properties	Metric	English	Comments
Compressive Strength	45.0 MPa	6530 psi	Cold Crushing Strength

Thermal Properties	Metric	English	Comments
Thermal Conductivity	1.20 W/m-K	8.33 BTU-in/hr-ft <sup>2</sup> - °F	
	@Temperature 100 °C	@Temperature 212 °F	
	1.30 W/m-K	9.02 BTU-in/hr-ft <sup>2</sup> - °F	
	@Temperature 650 °C	@Temperature 1200 °F	
	1.45 W/m-K	10.1 BTU-in/hr-ft <sup>2</sup> - °F	
	@Temperature 1100 °C	@Temperature 2010 °F	
Maximum Service Temperature, Air	1450 °C	2640 °F	
	1500 °C	2730 °F	Deformation under load - t <sub>a</sub>

Component Elements Properties	Metric	English	Comments
Al <sub>2</sub> O <sub>3</sub>	42 %	42 %	
Fe <sub>2</sub> O <sub>3</sub>	<= 1.5 %	<= 1.5 %	
SiO <sub>2</sub>	53 %	53 %	

Descriptive Properties	Value	Comments
Segecone	34-35	
Thermal Shock Resistance	15 cycles	DIN 51068

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