

## Gouda Vuurvast AK 44 Dense Refractory Brick

Category : Ceramic , Oxide , Aluminum Oxide , Silicon Oxide

### Material Notes:

Description: A very dense, high duty fireclay brick with low iron and alkali content. Widely used in anode-baking furnaces (aluminum industry) and as the lining of the top of blast furnaces. 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-44-Dense-Refractory-Brick.php](http://www.lookpolymers.com/polymer_Gouda-Vuurvast-AK-44-Dense-Refractory-Brick.php)

Physical Properties	Metric	English	Comments
Density	2.35 g/cc	0.0849 lb/in <sup>3</sup>	Apparent
Porosity	15 %	15 %	Apparent

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

Thermal Properties	Metric	English	Comments
Thermal Conductivity	1.25 W/m-K	8.68 BTU-in/hr-ft <sup>2</sup> - °F	
	@Temperature 100 °C	@Temperature 212 °F	
	1.33 W/m-K	9.23 BTU-in/hr-ft <sup>2</sup> - °F	
	@Temperature 650 °C	@Temperature 1200 °F	
	1.46 W/m-K	10.1 BTU-in/hr-ft <sup>2</sup> - °F	
	@Temperature 1100 °C	@Temperature 2010 °F	
Maximum Service Temperature, Air	1480 °C	2700 °F	
	1520 °C	2770 °F	Deformation under load - t <sub>a</sub>

Component Elements Properties	Metric	English	Comments
Al <sub>2</sub> O <sub>3</sub>	44 %	44 %	
Fe <sub>2</sub> O <sub>3</sub>	<= 1.1 %	<= 1.1 %	
SiO <sub>2</sub>	52 %	52 %	

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

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