

## Gouda Vuurvast AK 55 S Dense Refractory Brick

Category : Ceramic , Oxide , Aluminum Oxide , Silicon Oxide

### Material Notes:

Description: This andalusite based brick is characterized by a low porosity and a good creep resistance (After 24 hours at 1350°C under a load of 0.2 MPa gives between 14th and 24th hour a creep of 0.006% per hour.) Application: anode baking furnaces, blast furnace stoves. 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-55-S-Dense-Refractory-Brick.php](http://www.lookpolymers.com/polymer_Gouda-Vuurvast-AK-55-S-Dense-Refractory-Brick.php)

Physical Properties	Metric	English	Comments
Density	2.45 g/cc	0.0885 lb/in <sup>3</sup>	Apparent
Porosity	<= 15 %	<= 15 %	Apparent

Mechanical Properties	Metric	English	Comments
Compressive Strength	60.0 MPa	8700 psi	Cold Crushing Strength

Thermal Properties	Metric	English	Comments
Thermal Conductivity	1.61 W/m-K	11.2 BTU-in/hr-ft <sup>2</sup> - °F	
	@Temperature 100 °C	@Temperature 212 °F	
	1.64 W/m-K	11.4 BTU-in/hr-ft <sup>2</sup> - °F	
	@Temperature 650 °C	@Temperature 1200 °F	
	1.72 W/m-K	11.9 BTU-in/hr-ft <sup>2</sup> - °F	
	@Temperature 1100 °C	@Temperature 2010 °F	
Maximum Service Temperature, Air	1600 °C	2910 °F	
	1600 °C	2910 °F	Deformation under load - t <sub>a</sub>

Component Elements Properties	Metric	English	Comments
Al <sub>2</sub> O <sub>3</sub>	55 %	55 %	
Fe <sub>2</sub> O <sub>3</sub>	<= 1.0 %	<= 1.0 %	
Na <sub>2</sub> O or K <sub>2</sub> O	<= 0.60 %	<= 0.60 %	

Component Elements Properties	Metric	English	Comments
<b>Descriptive Properties</b>			
		Value	Comments
Seegercone		36-37	
Thermal Shock Resistance		30 cycles	DIN 51068

## Contact Songhan Plastic Technology Co.,Ltd.

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