

Gouda Vuurvast AK 90 Dense Refractory Brick

Category : Ceramic , Oxide , Aluminum Oxide

Material Notes:

Description: This brick can be used in very severe conditions, i.e. in reducing atmosphere at a high temperatures, e.g. in carbon-black 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-90-Dense-Refractory-Brick.php

Physical Properties	Metric	English	Comments
Density	3.05 g/cc	0.110 lb/in ³	Apparent
Porosity	18 %	18 %	Apparent

Mechanical Properties	Metric	English	Comments
Compressive Strength	85.0 MPa	12300 psi	Cold Crushing Strength

Thermal Properties	Metric	English	Comments
Thermal Conductivity	2.20 W/m-K	15.3 BTU-in/hr-ft ² - °F	
	@Temperature 1100 °C	@Temperature 2010 °F	
	2.30 W/m-K	16.0 BTU-in/hr-ft ² - °F	
	@Temperature 650 °C	@Temperature 1200 °F	
	2.60 W/m-K	18.0 BTU-in/hr-ft ² - °F	
	@Temperature 100 °C	@Temperature 212 °F	
Maximum Service Temperature, Air	1700 °C	3090 °F	
	1750 °C	3180 °F	Deformation under load - t _a

Component Elements Properties	Metric	English	Comments
Al ₂ O ₃	90 %	90 %	
Fe ₂ O ₃	<= 0.50 %	<= 0.50 %	
SiO ₂	9.5 %	9.5 %	

Descriptive Properties	Value	Comments
Segecone	40	
Thermal Shock Resistance	30 cycles	DIN 51068

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