

Gouda Vuurvast AK 45 Dense Refractory Brick

Category : Ceramic , Oxide , Aluminum Oxide , Silicon Oxide

Material Notes:

Description: High quality refractory brick with a good volume stability up to 1450°C. Used where high load bearing capacities are required e.g. 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-45-Dense-Refractory-Brick.php

Physical Properties	Metric	English	Comments
Density	2.30 g/cc	0.0831 lb/in ³	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	1.25 W/m-K	8.68 BTU-in/hr-ft ² -°F	
	@Temperature 100 °C	@Temperature 212 °F	
	1.33 W/m-K	9.23 BTU-in/hr-ft ² -°F	
	@Temperature 650 °C	@Temperature 1200 °F	
	1.46 W/m-K	10.1 BTU-in/hr-ft ² -°F	
	@Temperature 1100 °C	@Temperature 2010 °F	
Maximum Service Temperature, Air	1450 °C	2640 °F	
	1500 °C	2730 °F	Deformation under load - t _a

Component Elements Properties	Metric	English	Comments
Al ₂ O ₃	45 %	45 %	
Fe ₂ O ₃	≤ 1.5 %	≤ 1.5 %	
SiO ₂	50 %	50 %	

Descriptive Properties	Value	Comments
Segecone	34-35	

Thermal Shock Resistance Descriptive Properties	15 cycles Value	QIN 51068 Comments
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