

Gouda Vuurvast AK 42 Dense Refractory Brick

Category : Ceramic , Oxide , Aluminum Oxide , Silicon Oxide

Material Notes:

Description: Because of its abrasion resistance and high density, this brick performs very well in 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-AK-42-Dense-Refractory-Brick.php

Physical Properties	Metric	English	Comments
Density	2.25 g/cc	0.0813 lb/in ³	Apparent
Porosity	15 %	15 %	Apparent

Mechanical Properties	Metric	English	Comments
Compressive Strength	50.0 MPa	7250 psi	Cold Crushing Strength

Thermal Properties	Metric	English	Comments
Thermal Conductivity	1.20 W/m-K	8.33 BTU-in/hr-ft ² - °F	
	@Temperature 100 °C	@Temperature 212 °F	
	1.30 W/m-K	9.02 BTU-in/hr-ft ² - °F	
	@Temperature 650 °C	@Temperature 1200 °F	
	1.45 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	42 %	42 %	
Fe ₂ O ₃	<= 1.5 %	<= 1.5 %	
SiO ₂	53 %	53 %	

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

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