

Gouda Vuurvast AK 53 E Dense Refractory Brick

Category : Ceramic , Oxide , Aluminum Oxide , Silicon Oxide

Material Notes:

Description: Because of its very high erosion resistance this brick is applied in e.g. recirculation cyclones for CFB coal fired boilers. 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-53-E-Dense-Refractory-Brick.php

Physical Properties	Metric	English	Comments
Density	2.40 g/cc	0.0867 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	1.32 W/m-K	9.16 BTU-in/hr-ft ² - °F	
	@Temperature 100 °C	@Temperature 212 °F	
	1.41 W/m-K	9.79 BTU-in/hr-ft ² - °F	
	@Temperature 650 °C	@Temperature 1200 °F	
	1.54 W/m-K	10.7 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	53 %	53 %	
Fe ₂ O ₃	<= 1.5 %	<= 1.5 %	
SiO ₂	41 %	41 %	

Descriptive Properties	Value	Comments
Erosion Resistance	Max 8 cc	ASTM C704
Segeccone	34-35	
Thermal Shock Resistance	20 cycles	DIN 51068

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