

Gouda Vuurvast AK 99 S Dense Refractory Brick

Category : Ceramic , Oxide , Aluminum Oxide

Material Notes:

Description: This high purity alumina quality has a very low porosity and is fired at a temperature of more than 1700°C. The low percentages of SiO₂ and Fe₂O₃ and the improved density make the quality very resistant to slag attack under reducing atmospheres. Finds wide application in chemical reactors such as shell gasification reactors. 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-99-S-Dense-Refractory-Brick.php

Physical Properties	Metric	English	Comments
Density	3.30 g/cc	0.119 lb/in ³	Apparent
Porosity	14 %	14 %	Apparent

Mechanical Properties	Metric	English	Comments
Compressive Strength	100 MPa	14500 psi	Cold Crushing Strength

Thermal Properties	Metric	English	Comments
Thermal Conductivity	3.80 W/m-K	26.4 BTU-in/hr-ft ² - °F	
	@Temperature 1100 °C	@Temperature 2010 °F	
	4.00 W/m-K	27.8 BTU-in/hr-ft ² - °F	
	@Temperature 650 °C	@Temperature 1200 °F	
	6.00 W/m-K	41.6 BTU-in/hr-ft ² - °F	
	@Temperature 100 °C	@Temperature 212 °F	
Maximum Service Temperature, Air	>= 1750 °C	>= 3180 °F	Deformation under load - t _a
	1800 °C	3270 °F	

Component Elements Properties	Metric	English	Comments
Al ₂ O ₃	>= 99 %	>= 99 %	
Na ₂ O or K ₂ O	<= 0.35 %	<= 0.35 %	
SiO ₂	<= 0.15 %	<= 0.15 %	

Component Elements Properties	Metric	English	Comments
Descriptive Properties		Value	Comments
Seegercone		42	
Thermal Shock Resistance		20 cycles	DIN 51068

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