

Gouda Vuurvast AK 85 P1 Dense Refractory Brick

Category : Ceramic , Oxide , Aluminum Oxide

Material Notes:

Description: A phosphate bonded bauxite brick with outstanding erosion resistance and resistance against liquid aluminum. In order to optimized the resistance against aluminum attack the sum of Al₂O₃ and protective additives is kept at a high level. Applications: aluminum melting 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-85-P1-Dense-Refractory-Brick.php

Physical Properties	Metric	English	Comments
Density	2.85 g/cc	0.103 lb/in ³	Apparent
Porosity	16 %	16 %	Apparent

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

Thermal Properties	Metric	English	Comments
Thermal Conductivity	2.10 W/m-K	14.6 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	
	2.50 W/m-K	17.4 BTU-in/hr-ft ² - °F	
	@Temperature 100 °C	@Temperature 212 °F	
Maximum Service Temperature, Air	1325 °C	2417 °F	Deformation under load - t _a
	1400 °C	2550 °F	

Component Elements Properties	Metric	English	Comments
Al ₂ O ₃	81 %	81 %	
Fe ₂ O ₃	<= 1.4 %	<= 1.4 %	
SiO ₂	10 %	10 %	

Component Elements Properties	Metric	English	Comments
Descriptive Properties		Value	Comments
Segeccone		37	
Thermal Shock Resistance		20 cycles	DIN 51068

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