Gouda Vuurvast AK 46 S Dense Refractory Brick

Category : Ceramic , Oxide , Aluminum Oxide , Silicon Oxide

Material Notes:

Description: AK 46 S is a very dense, high quality firebrick with low iron and alkali content, characterized by a low creep (after 24 hours at 1280Â°C at a load of 0.2 MPa, the creep is only 0.05% during the last 10 hours). Application: in anode baking 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-46-S-Dense-Refractory-Brick.php

Physical Properties	Metric	English	Comments
Density	2.40 g/cc	0.0867 lb/inÂ³	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	1.30 W/m-K @Temperature 100 Â°C	9.02 BTU-in/hr-ftÂ²-Â°F @Temperature 212 Â°F	
	1.38 W/m-K @Temperature 650 Â°C	9.58 BTU-in/hr-ftÂ²-Â°F @Temperature 1200 Â°F	
	1.50 W/m-K @Temperature 1100 Â°C	10.4 BTU-in/hr-ftÂ²-Â°F @Temperature 2010 Â°F	
Maximum Service Temperature, Air	1500 Â°C	2730 Â°F	
	1540 Â°C	2800 Â°F	Deformation under load - t_a

Component Elements Properties	Metric	English	Comments
Al2O3	48 %	48 %	
Fe2O3	<= 1.0 %	<= 1.0 %	
Na2O or K2O	<= 0.60 %	<= 0.60 %	

Component Elements Properties	Metric	English	Comments
SiO2	49 %	49 %	

Descriptive Properties	Value	Comments
Segercone	35	
Thermal Shock Resistance	15 cycles	DIN 51068

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