

Gouda Vuurvast AK 94 M Dense Refractory Brick

Category : Ceramic , Oxide , Aluminum Oxide

Material Notes:

Description: This mullite bonded, corundum brick combines a very good thermal shock resistance with a low creep as well as with resistance against a large variety of slags. (after 50 hours at 1650°C at a load of 0.2 MPa during the last 20 hours the creep is approximately 0.3%). 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-94-M-Dense-Refractory-Brick.php

Physical Properties	Metric	English	Comments
Density	3.15 g/cc	0.114 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	2.70 W/m-K	18.7 BTU-in/hr-ft ² - °F	
	@Temperature 1100 °C	@Temperature 2010 °F	
	2.80 W/m-K	19.4 BTU-in/hr-ft ² - °F	
	@Temperature 650 °C	@Temperature 1200 °F	
	3.10 W/m-K	21.5 BTU-in/hr-ft ² - °F	
	@Temperature 100 °C	@Temperature 212 °F	
Maximum Service Temperature, Air	1760 °C	3200 °F	Deformation under load - t _a
	1760 °C	3200 °F	

Component Elements Properties	Metric	English	Comments
Al ₂ O ₃	94 %	94 %	
Fe ₂ O ₃	<= 0.20 %	<= 0.20 %	
SiO ₂	5.0 %	5.0 %	

Component Elements Properties	Metric	English	Comments
Descriptive Properties		Value	Comments
Seegercone		41	
Thermal Shock Resistance		30 cycles	DIN 51068

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