

alubar® 1100

Refractory Barrier Bricks



simonsen®

		Average Value	Guaranteed Value
Bulk Density: <i>ISO 5017/ EN 993-1</i>	.....Kg/m ³	2150	≥ 2080
	.....Lbs./cu.ft.	134	≥ 130
Max. Service Temperature:	..... °C	1100	
	..... °F	2012	
Cold Crushing Strength: <i>ISO 10059-1/ EN 993-5</i>	.....MPa	60	≥ 35
	.....Lbs./sq.in.	8700	≥ 5075
Modulus of Rupture: <i>EN 993-6</i>	.....MPa	8.5	≥ 7.0
	.....psi	1232	≥ 1015
Apparent Porosity: <i>ISO 5017/ EN 993-1</i>	..... vol. %	14	≤ 17
Thermal Expansion: <i>DIN 51045</i>	@ 200°C (392°F)..... %	0.15	
	@ 400°C (752°F)..... %	0.23	
	@ 600°C (1112°F)..... %	0.36	
	@ 850°C (1562°F)..... %	0.50	
	@ 1000°C (1832°F)..... %	0.60	
Thermal Shock Resistance: DIN 51068	Number of cycles.....	15	
Cryolite Resistance: <i>Standardized "Cup-Test"</i>	..... cm ²	3.5	
<i>Max. dissolved area permitted 6 cm²</i>			
<i>Test Procedure available upon request.</i>			
Thermal Conductivity: <i>EN 993-15</i>			
	W/(m· K)	@ 300°C	1.26
		@ 600°C.....	1.40
@ 1000°C.....		1.47	
Btu/(sq.ft.h·°F/in)	@ 572°F.....	8.74	
	@ 1112°F.....	9.71	
	@ 1832°F.....	10.20	

Chemical Analysis: EN ISO 12677	SiO ₂%	68	62 - 71
	Al ₂ O ₃%	26	23 - 31
	Fe ₂ O ₃%	≤ 2.5	< 3.0

Dimensional Tolerances:	Length		
	..... ≤ 300 mm	±	2.0 mm
	..... 300 - 399 mm	±	3.0 mm
	..... 400 - 500 mm	±	4.0 mm
	Width		
	..... ≤ 125 mm	±	1.5 mm
	..... 125 - 299 mm	±	2.0 mm
	..... 300 - 399 mm	±	3.0 mm
	..... 400 - 500 mm	±	4.0 mm
	Thickness		
	..... ≤ 100 mm	±	1.0 mm
	..... 100 - 200 mm	±	2.0 mm
	Warpage		
	..... Length ≤ 250 mm		≤ 1.0 mm
	..... Length > 250 mm		≤ 2.0 mm
Straight angle deviation ≤ 250 mm..... max.			1.5 mm
up to max. 500 mm length and/or width max.			2.5 mm

HS Tariff Number: (Harmonized Commodity Description and Coding System)	690220
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Physical and thermal values are based upon regular, average test results from brick size 220x110x60 mm.

No Warranty or guarantee is implied on the data, which are given in good faith.

Deviations are according to AQL 4.0

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An ISO-9001/50001 certified company

