

# alubar<sup>®</sup> 1100 XL

## X-LARGE

Refractory Barrier Bricks



**simonsen<sup>®</sup>**

		Average Value	Guaranteed Value
<b>Bulk Density:</b> <i>ISO 5017/ EN 993-1</i>	.....Kg/m <sup>3</sup>	2150	≥ 2080
	.....Lbs./cu.ft.	134	≥ 130
<b>Max. Service Temperature:</b>	..... °C	1100	
	..... °F	2012	
<b>Cold Crushing Strength:</b> <i>ISO 10059-1/ EN 993-5</i>	.....MPa	60	≥ 35
	.....Lbs./sq.in.	8700	≥ 5075
<b>Apparent Porosity:</b> <i>ISO 5017/ EN 993-1</i>	..... vol. %	14	≤ 17
<b>Thermal Expansion:</b> <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	
<b>Thermal Shock Resistance:</b> <i>DIN 51068</i>	Number of cycles.....	15	
<b>Cryolite Resistance:</b> <i>Standardized "Cup-Test"</i>	..... cm <sup>2</sup> .....	3.5	
<i>Max. dissolved area permitted 6 cm<sup>2</sup> Test Procedure available upon request.</i>			
<b>Thermal Conductivity:</b> <i>EN 993-15</i>			
	<b>W/(m· K)</b>		
	@ 300°C.....	1.23	
	@ 600°C.....	1.49	
	@ 1000°C.....	1.50	
	<b>Btu/(sq.ft.h·°F/in)</b>		
	@ 572°F.....	8.53	
	@ 1112°F.....	10.33	
	@ 1832°F.....	10.40	
<b>Chemical Analysis:</b> <i>EN ISO 12677</i>	SiO <sub>2</sub> .....%	68	> 60
	Al <sub>2</sub> O <sub>3</sub> .....%	26	23 - 31
	Fe <sub>2</sub> O <sub>3</sub> .....%	≤ 2.5	< 3.0

<b>Dimensional Tolerances:</b>	<b>Length</b> .....	501 - 750 mm	±	5.0 mm
	<b>Width</b> .....	≤ 125 mm	±	1.5 mm
		..... 125 - 299 mm	±	2.0 mm
		..... 300 - 399 mm	±	3.0 mm
		..... 400 - 500 mm	±	4.0 mm
	<b>Thickness</b> .....	≤ 76 mm	±	1.0 mm
	<b>Warpage</b> .....	≤250 mm	≤	1.0 mm
		..... 250 - 500 mm	≤	2.0 mm
		..... 501 - 750 mm	≤	2.5 mm
	<b>Straight angle deviation</b> ≤ 250 mm.....	max.		1.5 mm
up to max. 750 mm length .....		max.	2.5 mm	

**HS Tariff Number:** ..... 690220  
 (Harmonized Commodity Description and Coding System)

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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Producer:  
**REFRATECHNIK Ceramics GmbH**  
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**An ISO-9001/50001 certified company**

