

Snow Shoe Refractories, LLC

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Product Data

Scope:

A semi-andalusite brick formulated to provide enhanced properties over conventional 70% alumina brick. It will find applications in the iron and steel industry, cement and lime kilns, and other applications where an upgrade in 70% alumina brick is required.

PCE: 37 - 38

Chemical Analysis (Wt.% - Calcined Basis)	
SiO ₂	20.0
Al ₂ O ₃	73.1
TiO ₂	2.7
Fe ₂ O ₃	1.3
CaO	0.2
MgO	0.2
Alkalies	0.7
P ₂ O ₅	1.8

Physical Properties				
	<u>English Units</u>		<u>SI Units</u>	
	<u>Average</u>	<u>Standard Deviation</u>	<u>Average</u>	<u>Standard Deviation</u>
Bulk Density	169.0	2.0	2,700	30
	(lbs/ft ³)		(kg/m ³)	
Apparent Porosity (%)	15.0	1.0		
Modulus of Rupture at 68°F (20°C)	1,535	215	10.6	1.5
	(psi)		(MPa)	
Crushing Strength at 68°F (20°C)	8,000 - 11,000		55 - 76	
	(psi)		(MPa)	
Linear Change (%) after 2910°F reheat		+ 2.0		

The data given above are average results of our common sized products and are subject to variation. One standard deviation is given when adequate data is available. These results should not be used for specification purposes.