

# Snow Shoe Refractories, LLC

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**BS-393**

## Product Data

### Scope:

A high purity, low alkali 50% alumina brick fortified with andalusite. It is formulated to have enhanced properties and performance over conventional 50% brick. It will find use in a wide range of industrial applications including cement and lime, incineration, and aluminum, as well as iron and steel applications where a high performance 50% material is required.

PCE: 36

<b>Chemical Analysis (Wt.% - Calcined Basis)</b>	
SiO <sub>2</sub>	43.6
Al <sub>2</sub> O <sub>3</sub>	52.7
TiO <sub>2</sub>	1.4
Fe <sub>2</sub> O <sub>3</sub>	0.8
CaO	0.1
MgO	0.1
Alkalies	0.2
P <sub>2</sub> O <sub>5</sub>	1.1

<b>Physical Properties</b>				
	<u>English Units</u>		<u>SI Units</u>	
	<u>Average</u>	<u>Standard Deviation</u>	<u>Average</u>	<u>Standard Deviation</u>
<b>Bulk Density</b>	150.0	3.5	2,400	60
	(lbs/ft <sup>3</sup> )		(kg/m <sup>3</sup> )	
<b>Apparent Porosity (%)</b>	16.0	2.5		
<b>Modulus of Rupture</b> at 68°F (20°C)	1,175	330	8.1	2.3
	(psi)		(MPa)	
<b>Crushing Strength</b> at 68°F (20°C)	7,000 - 9,000		48 - 62	
	(psi)		(MPa)	
<b>Linear Change (%)</b> after 2910°F (1600°C) reheat		+ 0.3		

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.

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