

# Snow Shoe Refractories, LLC

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# Andalu

## Product Data

### Scope:

An andalusite brick formulated to take advantage of the various benefits of andalusite. It has excellent hot properties, resistance to alkalis and thermal shock. It will find use in iron and steel, incineration, reheat furnaces, kiln furniture, and other applications where the benefits of andalusite are required.

PCE: 38

### Chemical Analysis (Wt.% - Calcined Basis)

SiO <sub>2</sub>	32.7
Al <sub>2</sub> O <sub>3</sub>	64.7
TiO <sub>2</sub>	0.2
Fe <sub>2</sub> O <sub>3</sub>	0.7
CaO	0.1
MgO	0.2
Alkalies	0.3
P <sub>2</sub> O <sub>5</sub>	1.1

### Physical Properties

	<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>		(lbs/ft <sup>3</sup> )		(kg/m <sup>3</sup> )
	165.0	2.5	2,650	40
<b>Apparent Porosity (%)</b>	15.0	0.5		
<b>Modulus of Rupture</b> at 68°F (20°C)		(psi)		(MPa)
	1,110	50	7.7	0.3
<b>Crushing Strength</b> at 68°F (20°C)		(psi)		(MPa)
		7,500 - 10,000		52 - 69
<b>Linear Change (%)</b> after 2910°F (1600°C) reheat				+ 0.5
<b>Loss of Strength (%)</b> cycled at 2200°F (1205°C)				25 - 35

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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