

# Snow Shoe Refractories, LLC

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**TITAN ® 50**

## Product Data

### Scope:

A 50% high alumina brick that will find use in a variety of applications including roof suspensions, curtain walls, and safety linings in steel ladles.

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

SiO <sub>2</sub>	41.2
Al <sub>2</sub> O <sub>3</sub>	52.7
TiO <sub>2</sub>	2.7
Fe <sub>2</sub> O <sub>3</sub>	1.6
CaO	0.2
MgO	0.3
Alkalies	1.3

PCE: 36

### 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> )
	156.5	3.0	2,510	50
<b>Apparent Porosity (%)</b>	18.0	1.5		
<b>Modulus of Rupture</b>		(psi)		(MPa)
at 68°F (20°C)	1,160	175	8.0	1.0
<b>Crushing Strength</b>		(psi)		(MPa)
at 68°F (20°C)	4,000 - 6,000		28 - 41	
<b>Linear Change (%)</b>				
after 2910°F (1600°C) reheat		+ 2.5		

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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