

# Snow Shoe Refractories, LLC

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MEDAL® P4

## Product Data

### Scope:

A super duty fireclay brick formulated with high purity materials and designed for severe super duty brick conditions. It will find applications in boilers, furnace linings, cement and lime kilns, incinerators, non-ferrous furnaces, and in a wide variety of other applications.

PCE: 33

Chemical Analysis (Wt.% - Calcined Basis)	
SiO <sub>2</sub>	51.2
Al <sub>2</sub> O <sub>3</sub>	44.3
TiO <sub>2</sub>	1.7
Fe <sub>2</sub> O <sub>3</sub>	1.3
CaO	0.1
MgO	0.3
Alkalies	1.1

Physical Properties				
	English Units		SI Units	
	Average	Standard Deviation	Average	Standard Deviation
<b>Bulk Density</b>	142.5	2.5	2,280	40
	(lbs/ft <sup>3</sup> )		(kg/m <sup>3</sup> )	
<b>Apparent Porosity (%)</b>	16.0	1.0		
<b>Modulus of Rupture</b> at 68°F (20°C)	1,050	255	7.2	1.8
	(psi)		(MPa)	
<b>Crushing Strength</b> at 68°F (20°C)	3,500 - 5,500		24 - 38	
	(psi)		(MPa)	
<b>Linear Change (%)</b> after 2460°F (1350°C) reheat		+ 0.1		

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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