

Snow Shoe Refractories, LLC

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BHA

Product Data

Scope:

A 60% high alumina brick made with high quality mullite material. Its mullitic formulation makes it resistant to carbon monoxide disintegration. It has good hot properties and resistance to alkali attack. It will find use in a variety of iron and steel, and industrial applications.

PCE: 37

Chemical Analysis (Wt.% - Calcined Basis)

SiO ₂	36.6
Al ₂ O ₃	58.7
TiO ₂	2.0
Fe ₂ O ₃	1.1
CaO	0.1
MgO	0.1
Alkalies	0.2
P ₂ O ₅	1.2

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		(lbs/ft ³)		(kg/m ³)
	156.0	2.5	2,500	40
Apparent Porosity (%)	14.0	1.2		
Modulus of Rupture		(psi)		(MPa)
at 68°F (20°C)	2,050	410	14.1	2.8
Crushing Strength		(psi)		(MPa)
at 68°F (20°C)	8,000 - 12,000		55 - 83	
Linear Change (%)				
after 2640°F (1450°C) reheat		+ 0.5		
after 2910°F (1600°C) reheat		+0.8		
Hot Load Deformation (%)				
25 psi load at 2640°F (1450°C)		- 0.5		

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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