

Snow Shoe Refractories, LLC

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BS-408

Product Data

Scope:

A 70% 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, steel, and industrial applications.

PCE: >37

Chemical Analysis (Wt.% - Calcined Basis)

SiO ₂	24.2
Al ₂ O ₃	70.5
TiO ₂	2.6
Fe ₂ O ₃	0.9
CaO	0.04
MgO	0.04
Alkalies	0.1
P ₂ O ₅	1.7

Physical Properties

	<u>English Units</u>		<u>SI Units</u>	
	Average	Standard Deviation	Average	Standard Deviation
Bulk Density	164	2	2630	30
	(lbs/ft ³)		(kg/m ³)	
Apparent Porosity (%)	14.8	1.3	14.8	1.3
Modulus of Rupture		(psi)		(MPa)
at 68°F (20°C)	3170	730	21.9	5.0
Crushing Strength		(psi)		(MPa)
at 68°F (20°C)	15,500 - 19,500		107 - 135	
Linear Change (%)				
after 2910°F reheat		-0.3		
Hot Load Deformation (%)				
at 25 psi load				
at 2640°F (1450°C)		+/- 0.0		
at 2750°F (1510°C)		- 0.4		
CO Resistance		unaffected (500 hours)		

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.