

Snow Shoe Refractories, LLC

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SPARTAN® 75

Product Data

Scope:

A burned, phosphate bonded 75% alumina brick. It has low porosity and excellent resistance to impact and abrasion. It will find use in cement and lime kilns, steel ladles, tundish linings, pocket blocks, and aluminum furnaces.

PCE: 38

Chemical Analysis (Wt.% - Calcined Basis)	
SiO ₂	13.5
Al ₂ O ₃	77.7
TiO ₂	3.5
Fe ₂ O ₃	1.4
CaO	0.2
MgO	0.2
Alkalies	0.7
P ₂ O ₅	2.8

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	175.5	4.5	2,810	70
	(lbs/ft ³)		(kg/m ³)	
Apparent Porosity (%)	16.5	1.5		
Modulus of Rupture at 68°F (20°C)	1,420	255	9.8	1.7
	(psi)		(MPa)	
Crushing Strength at 68°F (20°C)	10,000 - 13,000		69 - 90	
	(psi)		(MPa)	
Linear Change (%) after 2910°F (1600°C) reheat		+ 1.5		
ASTM C704 Abrasion Loss (cc)		< 10		

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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