

Snow Shoe Refractories, LLC

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FRANCITE® 70

Product Data

Scope:

A 70% high alumina brick designed for a wide variety of iron and steel applications. It will find use in iron and steel ladles, electric arc furnace roofs, furnace linings, cement and lime kilns, phosphate furnaces, boilers, and many other applications.

PCE: 38

Chemical Analysis (Wt.% - Calcined Basis)	
SiO ₂	24.1
Al ₂ O ₃	69.9
TiO ₂	3.2
Fe ₂ O ₃	1.5
CaO	0.2
MgO	0.2
Alkalies	0.9

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	162.0	3.0	2,590	50
	(lbs/ft ³)		(kg/m ³)	
Apparent Porosity (%)	18.5	1.5		
Modulus of Rupture at 68°F (20°C)	1,420	225	9.8	1.5
	(psi)		(MPa)	
Crushing Strength at 68°F (20°C)	7,500 - 10,500		52 - 72	
	(psi)		(MPa)	
Linear Change (%) after 2910°F reheat		+4.1		
Hot Load Deformation (%) 25 psi load at 2640°F (1600°C)		-0.8		

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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