

Snow Shoe Refractories, LLC

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MEDAL ® HF

Product Data

Scope:

A high-fired super duty dry-pressed firebrick that exhibits low porosity, high strength, good alkali resistance, and resistance to carbon monoxide disintegration. It will find applications in blast furnace bottoms, blast furnace stoves, glass tank lower checkers, boilers, stacks, charcoal furnaces, zinc galvanizing furnaces, and cyclones.

Chemical Analysis (Wt.% - Calcined Basis)

SiO ₂	50.5
Al ₂ O ₃	45.1
TiO ₂	2.0
Fe ₂ O ₃	1.1
CaO	0.2
MgO	0.1
Alkalies	1.0

PCE: 33-34

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)
	149.0	2.5	2,389	40
Apparent Porosity (%)	12.5	1.0		
Modulus of Rupture at 68°F (20°C)		(psi)		(MPa)
	2,100	300	14.5	2.1
Crushing Strength at 68°F (20°C)		(psi)		(MPa)
		9,000 - 11,000		62 - 76
Linear Change (%) after 2730°F (1500°C) reheat				<0.1
Hot Load Deformation (%) at 2640°F (1450°C)				0.6

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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