Snow Shoe Refractories, LLC

SPARTAN ® 80D

Chemical Analysis (Wt.% - Calcined Basis)

895 Clarence Road, P. O. Box 276 Snow Shoe, PA 16874

Tel: (814) 387-6811 • Fax: (814) 387-6209

Product Data

13.5

80.7

3.6

1.3

0.2

0.2

0.5

Scope:

An 80% high alumina brick formulated with select raw materials to produce low porosity, high strength, and excellent resistance to slag and metal. It will find applications in iron and steel ladles, electric furnace roofs, tundish linings, cement and lime kilns, furnace

SiO₂ Al_2O_3 TiO₂ Fe_2O_3 CaO hearths, and a variety of other applications. MgO Alkalies

PCE: 37 - 38

Physical Properties					
	English Units Standard Average Deviation		SI Units Standard Average Deviation		
Bulk Density	(lbs	3/ft ³) 2.0	2,790 (kg/	(m^3) 30	
Apparent Porosity (%)	18.5	1.0			
Modulus of Rupture at 68°F (20°C)	(p 1,950	osi) 265	(MPa) 13.5 1.8		
Crushing Strength at 68°F (20°C)	(psi) 7,000 - 9,000		`	(MPa) 48 - 62	
Linear Change (%) after 2910°F (1600°C) reheat		+ 0	0.5		
Hot Load Deformation (%) 25 psi load at 2750°F (1510°C)		- 1	.5		