

Snow Shoe Refractories, LLC

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SPARTAN® CA-D

Product Data

Scope:

A high purity chromia fortified brick designed for extreme service and high temperatures. It provides excellent hot properties, abrasion resistance, and resistance to chemical and slag attack. It will find application in incinerators, carbon black furnaces, coal gasification and chemical processing units, induction furnaces, and impact pads.

Chemical Analysis (Wt.% - Calcined Basis)	
SiO ₂	0.0
Al ₂ O ₃	89.8
Fe ₂ O ₃	0.0
CaO	0.0
Cr ₂ O ₃	10.0
Alkalies	0.2

PCE: 41+

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	200.0	4.5	3,200	70
	(lbs/ft ³)		(kg/m ³)	
Apparent Porosity (%)	17.9	1.5		
Modulus of Rupture		(psi)		(MPa)
at 68°F (20°C)	4,600	600	31.7	4.1
at 2700°F (1480°C)	2,650	400	18.3	2.8
Crushing Strength		(psi)		(MPa)
at 68°F (20°C)	12,000 - 15,000		83-103	
Linear Change (%)				
after 3100°F (1600°C) reheat		-0.16		
Hot Load Deformation (%)				
at 3000°F (1650°C)		nil		

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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