

# Snow Shoe Refractories, LLC

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# SPARTAN® CA

## 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.

**PCE:** 40 - 41

<b>Chemical Analysis (Wt.% - Calcined Basis)</b>	
SiO <sub>2</sub>	3.3
Al <sub>2</sub> O <sub>3</sub>	83.3
TiO <sub>2</sub>	0.1
Fe <sub>2</sub> O <sub>3</sub>	0.1
CaO	0.0
MgO	0.0
Alkalies	0.3
P <sub>2</sub> O <sub>5</sub>	2.8
Cr <sub>2</sub> O <sub>3</sub>	10.1

<b>Physical Properties</b>				
	<u>English Units</u>		<u>SI Units</u>	
	<u>Average</u>	<u>Standard Deviation</u>	<u>Average</u>	<u>Standard Deviation</u>
<b>Bulk Density</b>	203.5	5.0	3,260	80
	(lbs/ft <sup>3</sup> )		(kg/m <sup>3</sup> )	
<b>Apparent Porosity (%)</b>	14.0	2.5		
<b>Modulus of Rupture</b>				
at 68°F (20°C)	3,150	575	21.7	4.0
at 2700°F (1482°C)	1,500 - 2,000		10 - 14	
<b>Crushing Strength</b>				
at 68°F (20°C)	9,000 - 13,000		62 - 90	
<b>Linear Change (%)</b>				
after 2910°F (1600°C) reheat		± 0.0		
<b>ASTM C704 Abrasion Loss (cc)</b>		< 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.