



**CLAYBURN INDUSTRIES LTD.**

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## TECHNICAL DATA

### CLAYBURN NC-SIC

CLAYBURN NC-SIC is high alumina-silicon carbide no cement material designed to be installed by pumping. Special characteristics are its high density, low porosity, high hot strength and rapid dry-out along with excellent resistance to iron, slag, thermal shock and oxidation. CLAYBURN NC-SIC is suggested for blast furnace troughs, iron and slag runners, skimmer blocks and desulphurizing ladles.

<b>SERVICE TEMPERATURE:</b>	3000°F
<b>MATERIAL REQUIRED FOR ESTIMATING:</b>	190 lbs./cu. ft.
<b>STORAGE LIFE:</b>	1 year
<b>BINDER ADDITION:</b>	8.6 – 9.6% by weight

### TYPICAL CHEMICAL ANALYSIS

(Calcined Basis)

Al <sub>2</sub> O <sub>3</sub>	SiO <sub>2</sub>	TiO <sub>2</sub>	SiC & C
66 - 70	3 - 7	1.6 - 2.0	21 - 24

### TYPICAL PHYSICAL PROPERTIES

(Reducing conditions above 250°F)

Prefired to °F	Modulus of Rupture, psi	Cold Crushing Strength, psi	Linear change %
250	600 - 800	3,000 - 4,500	Nil
1500	900 - 11000	6,500 - 8,000	+0.2
2000	1050 - 1250	7,500 - 9,000	Nil
2500	1200 - 1450	7,500 - 9,000	+0.2

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