



CLAYBURN INDUSTRIES LTD.

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TECHNICAL DATA

CLAYBURN FIRECAST SIC

CLAYBURN FIRECAST SIC is a high alumina-silicon carbide, no cement material designed to be installed by casting or 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 FIRECAST SIC** is suggested for blast furnace troughs, iron and slag runners, skimmer blocks and de-sulphurizing ladles.

SERVICE TEMPERATURE:	3000°F (Reducing)
MATERIAL REQUIRED FOR ESTIMATING:	190 lbs./cu. ft.
STORAGE LIFE:	1 year
WATER ADDITION:	4.5 – 5.5 %

TYPICAL CHEMICAL ANALYSIS (Calcined Basis)

Al ₂ O	SiO ₂	TiO ₂	SiC & C
68	7.5	1.6	23

TYPICAL PHYSICAL PROPERTIES (Reducing conditions above 250⁰F)

Prefired to °F	Modulus of Rupture, psi	Cold Crushing Strength, psi	Linear change %
250	600 - 800	5,000 – 6,000	Nil
1500	1100 - 1300	9,500 – 11,000	+0.1
2500	1900 - 2100	11,500 – 13,000	-0.3

177620 – 12/30/03