



CLAYBURN INDUSTRIES LTD.

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TECHNICAL DATA

CLAYBURN FIRECAST 85 SA

CLAYBURN FIRECAST 85 SA is a high alumina, one component, no cement refractory designed for severe applications that can be installed by pumping, casting or by the **Jet Cast** method. Quick installation, dry-out, high hot strength and thermal shock resistance are features of this product. **CLAYBURN FIRECAST 85 SA** is recommended for use in reheat furnaces, ladles, and other applications where a rapid heat-up is desired and thermal shock conditions are present.

SERVICE TEMPERATURE: 3000°F
MATERIAL REQUIRED FOR ESTIMATING: 185 lbs./cu. ft.
WATER ADDITION: 4.5 – 5.0 %

TYPICAL CHEMICAL ANALYSIS
 (Calcined Basis)

Al ₂ O ₃	SiO ₂	Fe ₂ O ₃	TiO ₂	CaO	Other
83-85	12	0.9	3	0.1	0.1

TYPICAL PHYSICAL PROPERTIES

Prefired to °F	Modulus of Rupture, psi	Cold Crushing Strength, psi	Linear change %
250	1,100	2,500 - 3,500	Nil
1500	2,140	5,000 - 5,500	+0.2
2500	3,900	>12,000	-0.2
2900	2,659	>14,000	+0.5

ABRASION LOSS (1500°F): 4 - 6 cc
HOT MOR (2700°F): 1950 psi

175220 – 12/30/03

The data represents typical average results obtained by testing under ASTM or other acceptable procedures as required. They are subject to normal variations and should not be used for specifications.