



**CLAYBURN INDUSTRIES LTD.**

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**TECHNICAL DATA**

**CLAYBURN FIRECAST 85 SA JC**

**CLAYBURN FIRECAST 85 SA JC** is a high alumina, one component, no cement refractory designed for severe applications that can be installed by pumping, shotcreting or casting. Quick installation, dry-out, high hot strength and thermal shock resistance are features of this product. **CLAYBURN FIRECAST 85 SA JC** 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 <sub>2</sub> O <sub>3</sub>	SiO <sub>2</sub>	Fe <sub>2</sub> O <sub>3</sub>	TiO <sub>2</sub>	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

175320 – 10/30/03

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.