



**CLAYBURN INDUSTRIES LTD.**

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**TECHNICAL DATA**

**CLAYBURN CAST 65 LC/ALX**

**CLAYBURN CAST 65 LC/ALX** is a mullite based, low cement, high alumina castable. It was designed for use in molten aluminum contact areas where high strengths, excellent abrasion resistance, volume stability and non-wetting by the molten metal is required. It has passed the “CIREP Corrosion/Immersion Test” for aluminum.

**SERVICE TEMPERATURE:** 3000°F  
**MATERIAL REQUIRED FOR ESTIMATING:** 162 lbs./cu. ft.  
**CASTING WATER (Approx. by Wt.):** 5-6%

**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>	MgO	CaO	Alk.	P <sub>2</sub> O <sub>5</sub>	Other
64-65	23-24	0.9	1.9	0.1	1.6	0.2	0.1	6-7

**TYPICAL PHYSICAL PROPERTIES**

Prefired to °F	Modulus of Rupture psi	Cold Crushing Strength psi	Linear Change %	Thermal Conductivity* (BTU in/hr.ft <sup>2</sup> °F)
250	2670	9,400	Nil	11.4 (500)
1500	3017	10,300	-0.1	10.5 (1000)
2000	3067	10,400	-0.2	9.5 (1500)
2500	2903	9,675	-0.1	

**ABRASION LOSS AFTER 1500°F:** 3.5 cc

**APP. POROSITY AFTER 1500°F:** 11-12%

**HOT MOR AT 1500°F:** 3500 psi

\* Estimated

9/27/04 – (9/24/02)

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.