



CLAYBURN INDUSTRIES LTD.

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TECHNICAL DATA

CLAYBURN CAST 65 LC/AL

CLAYBURN CAST 65 LC/AL 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.

SERVICE TEMPERATURE: 3000°F
MATERIAL REQUIRED FOR ESTIMATING: 158 lbs./cu. ft.
CASTING WATER (Approx. by Wt.): 5-6%

TYPICAL CHEMICAL ANALYSIS

(Calcined Basis)

Al ₂ O ₃	SiO ₂	Fe ₂ O ₃	TiO ₂	MgO	CaO	Alk.	P ₂ O ₅	Other
63.5	29.7	0.8	1.3	0.1	1.9	0.2	0.1	2.4

TYPICAL PHYSICAL PROPERTIES

Prefired to °F	Modulus of Rupture, psi	Cold Crushing Strength, psi	Linear Change %
250	3150	12,700	Nil
1500	3500	12,300	-0.1
2000	4150	17,400	-0.2
2500	3400	13,600	+0.8
3000	2550	11,300	+1.8

ABRASION LOSS: 4.1 cc After 1500°F

APP. POROSITY: 11.1% After 1500°F

HOT MOR: at 1500°F - 3300 psi
at 2000°F - 3700 psi

149320 - 3/2/02

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.