



CLAYBURN INDUSTRIES LTD.

33765 PINE STREET
ABBOTSFORD, BC
CANADA V2S 5C1
PHONE: (604) 859-5288
FAX: (604) 859-0424

TECHNICAL DATA

CLAYBURN CAST 50 LC/AL

CLAYBURN CAST 50 LC/AL is a low moisture, low cement, super duty castable. It was designed for use in molten aluminum contract areas where high strengths, excellent abrasion resistance, volume stability and non wetting by molten metal is required.

SERVICE TEMPERATURE: 3000°F
MATERIAL REQUIRED FOR ESTIMATING: 148 lbs./cu. ft.
CASTING WATER (Approx. by Wt.): 7 – 7.5%

TYPICAL CHEMICAL ANALYSIS
(Calcined Basis)

Al2O3	SiO2	Fe2O3	TiO2	MgO	CaO	Alkalies	Other
48.8	46.4	0.8	1.4	0.1	2.1	0.2	0.2

TYPICAL PHYSICAL PROPERTIES

Prefired to °F	Modulus of Rupture, psi	Cold Crushing Strength, psi	Linear Change %
250	1350	4,300	Nil
1500	1950	7,800	-0.2
2000	2400	12,100	-0.2
2500	2000	10,500	+0.9
2900	2550	9,900	+1.4

ABRASION LOSS: 5.8 cc After 1500°F

APP. POROSITY: 12.5% After 1500°F

HOT MOR: at 1500°F - 2500 psi
at 2000°F - 3100 psi

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