



CLAYBURN INDUSTRIES LTD.

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TECHNICAL DATA

CLAYBURN CAST 90 LC

CLAYBURN CAST 90 LC is a 90% alumina class, low cement castable with superior physical and chemical properties. It is very abrasion resistant and has excellent strength and volume stability throughout its temperature range. It is used in very severe service applications.

SERVICE TEMPERATURE:	3200°F
MATERIAL REQUIRED FOR ESTIMATING:	186 lbs./cu. ft.
CASTING WATER (Approx. by Wt.) :	3.7-4.1%

TYPICAL CHEMICAL ANALYSIS (Calcined Basis)

Al ₂ O ₃	SiO ₂	Fe ₂ O ₃	TiO ₂	MgO	CaO	Alkalies	Other
91.5	4.3	0.5	1.2	0.1	2.1	0.3	Nil

TYPICAL PHYSICAL PROPERTIES

Prefired to °F	Modulus of Rupture, psi	Cold Crushing Strength, psi	Linear Change %
250	3200	13,600	Nil
1500	3388	>14,300	-0.2
2000	3650	>14,000	-0.3
2500	5050	>14,000	-0.5
3000	4650	14,500	-0.6

ABRASION LOSS: 4.7 cc After 1500°F

APP. POROSITY: 13.1% After 1500°F

HOT MOR, 1500F: 5525 PSI

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