



CLAYBURN INDUSTRIES LTD.

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TECHNICAL DATA

CLAYBURN NC-70 AL

CLAYBURN NC-70 AL is a high alumina no cement pumpable refractory developed for aluminum contact applications. Quick installation, dry-out, high hot strength and refractoriness, high thermal shock resistance and aluminum resistance are its unique properties. CLAYBURN NC 70 AL is recommended for melting and holding furnaces, runners and doors.

SERVICE TEMPERATURE:	3000°F
MATERIAL REQUIRED FOR ESTIMATING:	155 lbs./cu. ft.
BINDER ADDITION:	9.5 – 10.5 %

TYPICAL CHEMICAL ANALYSIS (Calcined Basis)

Al ₂ O ₃	SiO ₂	Fe ₂ O ₃	TiO ₂
67.7	29.7	0.8	1.5

TYPICAL PHYSICAL PROPERTIES

Prefired to °F	Modulus of Rupture, psi	Cold Crushing Strength, psi	Linear change %
250	840	3,020	Nil
1500	1320	4,210	-0.1
2000	1925	7,150	-0.4
2500	2180	6,530	-0.2
3000	2970	11,330	+0.6

HOT MOR: @ 2500°F 1600-1700 psi

ABRASION LOSS: After 1500°F 9.2 cc

THERMAL SHOCK: After 2200°F 15.6%
MOR Loss (ASTM C-1171)