



CLAYBURN INDUSTRIES LTD.

33765 PINE STREET
 ABBOTSFORD, BC
 CANADA V2S 5C1
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TECHNICAL DATA

CLAYBURN NC-70

CLAYBURN NC-70 is a high alumina no cement refractory designed to be installed by casting or pumping. Quick installation, dry-out, high hot strength and refractoriness, high thermal shock resistance and iron oxide penetration resistance are its unique properties. CLAYBURN NC 70 is recommended for reheat furnace hearths, steel ladle barrels, lances, tundish back-up linings and precast shapes for tundish flow control devices.

SERVICE TEMPERATURE: 3000°F
MATERIAL REQUIRED FOR ESTIMATING: 165 lbs./cu. ft.
***BINDER ADDITION (Approx. by Wt.):** 9.5 – 10.5 %

TYPICAL CHEMICAL ANALYSIS
 (Calcined Basis)

Al ₂ O ₃	SiO ₂	Fe ₂ O ₃	TiO ₂
67.5 - 72.5	27.5 - 30.0	<0.9	<1.5

TYPICAL PHYSICAL PROPERTIES

Prefired to °F	Modulus of Rupture, psi	Cold Crushing Strength, psi	Linear change %
250	700 - 950	3,250 - 4,500	Nil
1500	1000 - 1250	4,250 - 5,500	Nil
2000	1500 - 1750	5,500 - 6,750	-0.3
2500	2000 - 2250	5,500 - 6,750	-0.2
3000	2900 - 3150	9,500 - 12,000	+0.7

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)

***Product supplied as a two component mix**

183020 – 01/26/99