



CLAYBURN INDUSTRIES LTD.

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TECHNICAL DATA

CLAYBURN CAST HI-SIC LC/AL

CLAYBURN CAST HI-SIC LC/AL is a very pure low cement castable containing a high percentage of silicon carbide. Non wetting to aluminum, its abrasion resistance, very high strengths and thermal shock resistance are attributes that allow CLAYBURN CAST HI-SIC LC/AL to withstand harsh service conditions.

Recommended Maximum Service Temperature: 3000° F
Dry Material Required per Cu. Ft 162 lbs./cu. ft.
Casting Water: 5.25%

Typical Chemical Analysis
(Reducing Conditions)

Al ₂ O ₃	SiO ₂	Fe ₂ O ₃	TiO ₂	CaO	SiC	Alk.	Other
19.4	7.2	0.1	Nil	2.0	68.3	0.1	2.2

Typical Physical Properties
(Reducing conditions above 250°F.)

Prefired to °F	Modulus of Rupture, psi	Cold Crushing Strength, psi	Linear Change %
250	2200	8,930	Nil
1500	4070	11,600	-0.2
2000	2900	6,330	-0.3
2500	2890	7,650	-0.1

App. Porosity: 12.6% After 1500°F

166820 – 11/13/95

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.