



**CLAYBURN INDUSTRIES LTD.**

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**TECHNICAL DATA**

**CLAYBURN CAST 70 UL**

CLAYBURN CAST 70 UL is a high alumina, mullite based, ultralow cement castable. It demonstrates high hot strengths and density to resist abrasion and erosion at elevated temperatures. Low porosity reduces penetration and reaction by molten metal and slags. CLAYBURN CAST 70 UL is ideal for use in a variety of iron ladle applications.

<b>SERVICE TEMPERATURE:</b>	3100°F
<b>MATERIAL REQUIRED FOR ESTIMATING:</b>	160 lbs./cu. ft.
<b>CASTING WATER:</b>	4.5-4.75% by weight
<b>PUMPING WATER:</b>	5.0-5.25% by weight

**TYPICAL CHEMICAL ANALYSIS**  
(Calcined Basis)

Al <sub>2</sub> O <sub>3</sub>	SiO <sub>2</sub>	Fe <sub>2</sub> O <sub>3</sub>	TiO <sub>2</sub>	CaO	Alkalies
69 – 72	23 – 25	<1.0	<2.2	<1.0	<0.2

**TYPICAL PHYSICAL PROPERTIES**

Prefired to °F	Modulus of Rupture, psi	Cold Crushing Strength, psi	Linear Change %
250	1700 - 2000	5,750 – 7,250	Nil
1500	2000 - 2500	9,000 – 10,500	-0.1
2000	3500 - 4000	10,000 – 12,500	-0.3
2500	3700 - 4200	>14,000	-0.1

**Apparent Porosity after 1500°F:** 11% – 12%

**ABRASION LOSS** after 1500°F – 3-4 cc  
after 2500°F – 2-3 cc

**HOT MODULUS OF RUPTURE @ 1500°F** - 3850 psi  
**@ 2500°F** - 1200 psi

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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.