



CLAYBURN INDUSTRIES LTD.

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TECHNICAL DATA

CLAYBURN ASAP CAST 70 LC

CLAYBURN ASAP CAST 70 LC is a high alumina, mullite based, ultra low cement castable that can be dried out quickly. It demonstrates high hot strengths and density to resist abrasion, chemical attack and erosion at elevated temperatures. Low porosity reduces penetration and reaction by alkali, molten metal and slags.

SERVICE TEMPERATURE: 3100°F
MATERIAL REQUIRED FOR ESTIMATING: 160 lbs./cu. ft.
CASTING WATER: 4.5-5.5% by weight
PUMPING WATER: 5.0-6.0% by weight

TYPICAL CHEMICAL ANALYSIS
(Calcined Basis)

Al ₂ O ₃	SiO ₂	Fe ₂ O ₃	TiO ₂	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	3100 - 4000	10,000 – 12,500	-0.3
2500	3400 - 4200	>14,000	-0.1

Apparent Porosity after 1500°F: 11% - 12%

Abrasion Loss after 1500°F – 3-5 cc
after 2500°F – 2-4 cc

Hot Modulus of Rupture @ 1500°F – 3850 psi
@ 2500°F – 1200 psi

154520 - 10/10/05

The data presented 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 specification purposes.