



**RENO REFRACTORIES, INC**

**RENO CAST 65 LC/AL**

**TECHNICAL DATA SHEET**

**RENO CAST 65 LC/AL** is a Mullite based, low cement, high alumina castable. It was designed for use in molten aluminum contact areas where high strengths, excellent abrasion resistance, volume stability, and non-wetting by the molten metal is required.

**SERVICE TEMPERATURE:** 3000°F  
**MATERIAL REQUIRED FOR ESTIMATING:** 158 lbs/cf  
**CASTING WATER:** 5 - 6%

**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>	MgO	CaO	Alkalies	P <sub>2</sub> O <sub>5</sub>	Other
63.5	29.7	0.8	1.3	0.1	1.9	0.2	0.1	2.4

**TYPICAL PHYSICAL PROPERTIES**

Prefired to °F	Modulus of Rupture, psi	Cold Crushing Strength, psi	Linear Change %
250	3,150	12,700	Nil
1500	3,500	12,300	-0.1
2000	4,150	17,400	-0.2
2500	3,400	13,600	+0.8

**ABRASION LOSS:** 4.1 cc, after 1500 °F  
**APP. POROSITY:** 11.1%, after 1500 °F  
**HOT MOR:** at 1500 °F – 3,300 psi  
at 2000 °F – 3,700 psi

**PACKAGING:** 55 lb. Bags, 72 per Pallet (3960 lbs.)

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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.

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