



RENO REFRACTORIES, INC

RENO CAST 85 LC/AL

TECHNICAL DATA SHEET

**RENO CAST 85 LC/AL** is a low cement, volume stable, high alumina non-wetting castable designed to have high strength and thermal shock resistance. The low porosity and silica content gives excellent resistance to aluminum penetration and flux attack.

**RENO CAST 85 LC/AL** is used in any aluminum metal contact application.

**SERVICE TEMPERATURE:** 3100°F  
**MATERIAL REQUIRED FOR ESTIMATING:** 175 lbs./cu. ft.  
**CASTING WATER:** approx. 5%

**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	Other
83	8	<1	2.5	0.1	2.0	0.3	3.0

**TYPICAL PHYSICAL PROPERTIES**

Prefired to °F	Modulus of Rupture, psi	Cold Crushing Strength, psi	Linear Change %
250	2,100	9,000	Nil
1500	2,400	10,300	-0.2
2000	2,100	12,700	-0.1
2500	2,700	14,550	-0.6

**ABRASION LOSS AFTER 1500°F:** 5 cc

**APPARENT POROSITY AFTER 1500°F:** 14%

**PACKAGING:** 55 lb. Bags, 72 per Pallet (3,960 lbs.)

159100 – 5/1/13

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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