



**RENO REFRACTORIES, INC**

**REFCAST LOCEM 3160 AL**

**TECHNICAL DATA SHEET**

**REFCAST LOCEM 3160 AL** is a low iron, high alumina, non-wettig castable.

**FEATURES:**

- Non-wetting to aluminum
- Excellent hot strength at 1500°F
- Low porosity and permeability
- Volume Stable
- Low thermal expansion
- Applications include aluminum furnaces, ladles, troughs and rotary dross furnaces

**SERVICE TEMPERATURE:** 2500°F  
**MATERIAL REQUIRED FOR ESTIMATING:** 152 lbs./cu ft  
**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	Other
60.9	34.4	0.8	1.3	0.07	1.5	0.2	0.8

**TYPICAL PHYSICAL PROPERTIES**

Prefired to °F	Modulus of Rupture, psi	Cold Crushing Strength, psi	Linear Change %	Abrasion Loss cc
250	1,897	5,447	-0.1	--
1000	1,653	4,400	-0.1	3.2
1500	4,000	10,824	+0.3	3.8
2000	2,998	6,840	+0.4	4.6
2500	3,540	8,500	+0.5	--

**Coefficient of Thermal Expansion:** 2.13 x 10<sup>-6</sup> in/in/°F

**APP. POROSITY after 1500°F:** 12.2%

**HOT MODULUS OF RUPTURE, 1500°F:** 4,190 psi

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

144707 – 7/15/2016

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.