



RENO REFRACTORIES, INC

REFCAST LOCEM 3170 AL

TECHNICAL DATA SHEET

REFCAST LOCEM 3170 AL is a 73% alumina, low iron, low crystalline silica, Mullite based, low cement castable featuring high strength and abrasion resistance. Excellent non-wetting properties when exposed to molten aluminum.

REFCAST LOCEM 3170 AL applications include aluminum furnace hearths, lower walls and ramps, troughs, ladles, and filter boxes.

SERVICE TEMPERATURE: 3100°F
MATERIAL REQUIRED FOR ESTIMATING: 158 lbs/cf
CASTING WATER: 5 – 6%

TYPICAL CHEMICAL ANALYSIS (Calcined Basis)

Table with 8 columns: Al2O3, SiO2**, Fe2O3, TiO2, MgO, CaO, Alkalies, Other. Values: 73, 23, 0.8, <1, 0.1, <2, 0.2, 2

** Silica combined with alumina as Pre-reacted Mullite aggregate is 17%. Amorphous silica is <6%

TYPICAL PHYSICAL PROPERTIES

Table with 4 columns: Prefired to °F, Modulus of Rupture, psi, Cold Crushing Strength, psi, Linear Change %. Values: 250, 1500, 2500; 2,280, 2,512, 3,160; 10,600, 13,815, >15,000; Nil, -0.1, -0.2

ABRASION LOSS after 1500°F: <5 cc

APP. POROSITY after 1500°F: 13 – 15%

HOT MODULUS OF RUPTURE, 1500°F: 4,860 psi

PACKAGING: 55 lb Bags, 72 per Pallet (3,960 lbs.)
2000 lb. Bags, 2 per Pallet (4,000 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.