



TECHNICAL DATA SHEET

RENO CAST 45 LC is a low moisture, low cement castable that is installed by casting. This product has superior strength and abrasion resistance as compared to conventional castables of the same classification.

SERVICE TEMPERATURE: 2800°F
MATERIAL REQUIRED FOR ESTIMATING: 140 lbs./ft³
CASTING WATER: 6-7.25%

TYPICAL CHEMICAL ANALYSIS (Calcined Basis)

Table with 8 columns: Al2O3, SiO2, Fe2O3, TiO2, MgO, CaO, Alkalies, Other. Values: 48.1, 47.5, 0.9, 1.3, 0.1, 1.4, 0.2, 0.4

TYPICAL PHYSICAL PROPERTIES

Table with 5 columns: Prefired to °F, Modulus of Rupture, psi, Cold Crushing Strength, psi, 'K' Factor Btu-in/hr-ft²-°F, Linear Change %. Values: 250, 700-1,000, 6,900-8,000, 13.65, Nil; 1500, 800-1,100, 5,300-6,300, 14.53, -0.2; 2000, 1,500-2,000, 12,000-19,000, 14.88, +0.4; 2500, 1,775-1,900, 17,000-20,000, 15.23, -0.1

HOT MOR @ 2500°F: 362 psi
HOT MOR @ 2700°F: 285 psi

ABRASION LOSS After 1500°F: 7 - 8 cc
THERMAL EXPANSION: 2.16 x 10⁻⁶
THERMAL SHOCK RATING, USS CUBE TEST: Excellent
THERMAL SHOCK (ASTM) : 58% loss

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

140900 – 8/14/15

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.