



RENO REFRACTORIES, INC

RENO CAST 80 UL/AL

TECHNICAL DATA SHEET

RENO CAST 80 UL/ AL is a high alumina ultralow cement castable for aluminum contact applications. It demonstrates high strength, thermal shock resistance and resists aluminum penetration. Low porosity reduces penetration and reaction by molten metal and alkalis.

SERVICE TEMPERATURE: 3100°F
MATERIAL REQUIRED FOR ESTIMATING: 173 lbs./cu. ft.
CASTING WATER: approx. 5%

TYPICAL CHEMICAL ANALYSIS (Calcined Basis)

Table with 8 columns: Al2O3, SiO2, Fe2O3, TiO2, MgO, CaO, Alkalies, Other. Values range from 0.1 to 79-80.

TYPICAL PHYSICAL PROPERTIES

Table with 4 columns: Prefired to °F, Modulus of Rupture, psi, Cold Crushing Strength, psi, Linear Change %. Values include 250, 1500, 2000, 2500 for temperature and 1,750, 3,350, 3,400, 3,150 for modulus.

“K” FACTOR @ 1000°F: 13.20 Btu-in/hr-ft² °F
“K” FACTOR @ 1500°F: 13.72 Btu-in/hr-ft² °F
“K” FACTOR @ 2000°F: 14.24 Btu-in/hr-ft² °F

HOT MODULUS OF RUPTURE @ 1500°F: 3365 psi

ABRASION LOSS AFTER 1500°F: 7-8 cc

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.