



RENO REFRACTORIES, INC

RENO NC 70 AL

TECHNICAL DATA SHEET

RENO NC 70 AL is a high alumina no cement castable refractory developed for aluminum contact applications. Quick installation, dry-out, high hot strength and refractoriness, high thermal shock resistance and aluminum resistance are its unique properties.

RENO NC 70 AL is recommended for melting and holding furnaces, runners and doors.

SERVICE TEMPERATURE: 2500°F
MATERIAL REQUIRED FOR ESTIMATING: 156 lbs./cu. ft.
BINDER ADDITION: 9.5 - 11%

TYPICAL CHEMICAL ANALYSIS (Calcined Basis)

Al ₂ O ₃	SiO ₂	Fe ₂ O ₃	TiO ₂
67.7	29.7	0.8	1.5

TYPICAL PHYSICAL PROPERTIES

Prefired to °F	Modulus of Rupture, psi	Cold Crushing Strength, psi	Linear Change %
250	840	3,020	Nil
1500	1,320	5,210	-0.1
2000	1,925	7,150	-0.4
2500	2,480	8,530	-0.2

HOT MOR @ 2000°F: 1786 psi

ABRASION LOSS After 1500°F: 9.2 cc

ABRASION LOSS After 2000°F: 4.0 cc

THERMAL SHOCK After 2200°F: 15.6% MOR Loss (ASTM C-1171)

PACKAGING: 55 lb. Bags, 72 per Pallet (3960) 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.

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