



TECHNICAL DATA SHEET

RENO JC NC 70 AL is a high alumina no cement, pumpable 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 JC NC 70 AL is recommended for melting and holding furnaces.

SERVICE TEMPERATURE:	3000°F
MATERIAL REQUIRED FOR ESTIMATING:	156 lbs./cu. ft.
BINDER ADDITION (PUMP):	10 - 11.5 %

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 %	Conductivity BTU-in/hr-ft ² -F
250	840	3,020	Nil	10.74
1500	1,320	5,210	-0.1	10.44
2000	1,925	7,150	-0.4	10.81
2500	2,480	8,530	-0.2	11.3
2700	3,150	11,330	+0.6	----

HOT MOR @ 2000°F:	1786 psi
HOT MOR @ 2500°F:	2161 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):	<7 cc

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