



RENO REFRACTORIES, INC

JET CAST NC 50 AL

TECHNICAL DATA SHEET

JET CAST NC 50 AL is a high alumina no-cement material with excellent resistance to aluminum metal and alkali attack. Other features include thermal shock and abrasion resistance. It is designed to be easily installed by casting or pumping.

JET CAST NC 50 is recommended for aluminum melting and holding furnaces.

SERVICE TEMPERATURE:	2500°F
MATERIAL REQUIRED FOR ESTIMATING:	150 lbs./ft ³
STORAGE LIFE:	1 year
BINDER ADDITION:	11 - 12% by weight

TYPICAL CHEMICAL ANALYSIS (includes binder) (Calcined Basis)

Al ₂ O ₃	SiO ₂	Fe ₂ O ₃	TiO ₂
48 – 50	44 – 46	0.7 – 0.9	1.0 – 1.7

TYPICAL PHYSICAL PROPERTIES

Prefired to °F	Modulus of Rupture, psi	Cold Crushing Strength, psi	Linear Change %	“K” Factor Btu/ft ² /hr/in/°F
250	500 – 700	3,000 – 3,750	Nil	500°F – 11.5
1,500	700 – 950	3,400 – 4,150	-0.2	1,000°F – 8.5
2,000	1,050 – 1,200	3,750 – 4,500	-0.4	1,500°F – 6.5 2,000°F – 6.5

ABRASION LOSS After 1500°F: <6 cc
ABRASION LOSS After 2000°F: <7 cc

APPARENT POROSITY @ 1500°F: 13%

HOT MOR @ 1500°F: 1,500 – 1,650 psi

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.

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