



RENO REFRACTORIES, INC

JET CAST NC 70

TECHNICAL DATA SHEET

JET CAST NC 70 is a high alumina no cement refractory designed to be installed by jet casting or vibration. Quick installation, dry-out, high hot strength and refractoriness, high thermal shock resistance and iron oxide penetration resistance are its unique properties.

JET CAST NC 70 is recommended for reheat furnaces hearths, steel ladle barrels, lances, tundish back-up linings and precast shapes for tundish flow control devices.

SERVICE TEMPERATURE: 3000°F
MATERIAL REQUIRED FOR ESTIMATING: 160 lbs/cf
BINDER ADDITION (Pumping): 10-11.5 by weight

TYPICAL CHEMICAL ANALYSIS (includes binder) (Calcined Basis)

Al ₂ O ₃	SiO ₂	Fe ₂ O ₃	TiO ₂
65.5 – 68.5	30 - 32	<0.9	<1.5

TYPICAL PHYSICAL PROPERTIES

Prefired to °F	Modulus of Rupture, psi	Cold Crushing Strength, psi	Linear Change %
250	700 – 1,050	3,250 – 4,500	Nil
1,500	1,000 – 1,250	4,250 – 5,500	+0.2
2,000	1,500 – 1,750	5,500 – 6,750	+0.2
2,500	2,000 – 2,250	7,700 – 10,850	+0.3
3,000	2,900 – 3,150	9,500 – 12,000	+0.2

HOT MOR @ 2500°F: 1,600 – 1,700 psi

ABRASION LOSS After 1500°F: <9 cc
ABRASION LOSS After 2000°F: <6 cc
ABRASION LOSS After 2500°F: <5 cc

PACKAGING: 1500 lb. Bags, 2 per Pallet (3000 lbs.)
2000 lb. Bags, 2 per Pallet (4000 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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