



RENO REFRACTORIES, INC

RENO JET CAST NC 67

TECHNICAL DATA SHEET

RENO JET CAST NC 67 is a high alumina no cement refractory designed to be installed by pumping or Reno Refractories patented Jet Cast installation technique. Quick installation, dry-out, high hot strength, high thermal shock, slag and metal penetration resistance are features of this product. JET CAST NC 67 is also more insulating than cement bonded castables with similar chemistry.

RENO JET CAST NC 67 is recommended for cement kilns and iron contact applications.

Service Temperature:	3000°F/1648°C	Wt. Required for Estimating:	161 lbs./ft ³
Liquid Type:	Liquid Additive (10.7 lbs./gallon)	Storage Life:	6 months
Addition Quantity:	10 – 11.5%		

TYPICAL CHEMICAL ANALYSIS (% Calcined Basis)

Al ₂ O ₃	SiO ₂	Fe ₂ O ₃	TiO ₂
67	31	< 1	< 2

TYPICAL PHYSICAL PROPERTIES

Pre-fire Temperature (°F)	Modulus of Rupture (psi)	Cold Crushing Strength (psi)	Porosity (%)	Linear Change (%)	Permeability (mDarcy)	Thermal K (Btu/in/Ft ² /hr)	Surface Area (m ² /g)
250	1,012	7,956	18.4	0.5	30.6	16.6	4.74
1500	1,227	10,074	18.9	0.0	43.1	15.8	4.29
2000	1,519	14,396	19.4	0.6	241.9	15.6	3.91
2500	1,242	13,869	17.3	0.7	73.1	15.5	3.58
2800	2,241	11,426	14.4	1.0	75.2	15.5	0.50

Thermal Expansion Coefficient: 3.52 E⁻⁶ in/in/F (ASTM C832)
Thermal Cycle Loss (after 2000°F): 7% MOR Loss (ASTM C-1171)

Hot MOR at 2500°F: 842 psi (ASTM C583)
Hot MOR at 2750°F: 482 psi (ASTM C583)

Abrasion Loss After 1500°F: 7.5 cc (ASTM C704)
Abrasion Loss After 2500°F: 4.4 cc (ASTM C704)
Abrasion Loss After 2800°F: 4.6 cc (ASTM C704)

PACKAGING: 55 lb. Bags, 72 per Pallet (3960 lbs.) 1500 lb. Bags, 2 per Pallet (3000 lbs.) 2000 lb. Bags, 2 per Pallet (4000 lbs.)

16-046

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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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