



TECHNICAL DATA SHEET

RENO NC 88 is a high alumina no cement material with excellent resistance to alkali and iron oxide reaction and penetration, thermal shock and abrasion. This material is high in alumina which allows for better thermal conductivity properties. Ease of installation, dry-out, high hot strength, low porosity, high density and high thermal shock resistance are its unique properties. This material also processes very good strengths at high temperatures. It is designed to be easily installed by pumping.

RENO NC 88 is recommended for cement kiln burner pipes, steel ladle barrels, delta sections and tundish back-up linings.

SERVICE TEMPERATURE:	3100°F
MATERIAL REQUIRED FOR ESTIMATING:	187 lbs/cf
STORAGE LIFE:	6 months
BINDER ADDITION:	9 - 10% by weight

TYPICAL CHEMICAL ANALYSIS (Calcined Basis)

Al ₂ O ₃	SiO ₂	Fe ₂ O ₃	TiO ₂
89 – 90	7 – 8	<0.6	2.0 – 2.5

TYPICAL PHYSICAL PROPERTIES

Prefired to °F	Modulus of Rupture, psi	Cold Crushing Strength, psi	Linear Change %	“K” Factor Btu-in/hr-ft ² °F
250	1,000 – 1,350	7,000 – 8,900	Nil	16.6
1,500	1,500 – 1,750	12,000 – 13,800	-0.1	16.8
2,000	1,850 – 2,100	11,500 – 13,500	-0.2	16.9
2,500	2,100 – 3,200	12,000 – 14,500	0.1	17.0
2,750	1,900 – 2,400	>16,000	0.3	---

Coefficient of Thermal Expansion: 4.30x10⁻⁶ in/in/°F

ABRASION LOSS After 2000°F:	<5 cc
ABRASION LOSS After 2500°F:	<5 cc

PACKAGING: 55 lb. Bags, 72 per Pallet (3,960 lbs.)
1500 lb. Bags, 2 per Pallet (3,000 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.