



TECHNICAL DATA SHEET

RENO NC GUN 85 is a high alumina, no cement refractory with excellent resistance to oxide reaction and penetration, thermal shock and abrasion. It is designed to be installed by gunning with binder added at the nozzle. Binder is included with the material. Volume stability, high hot strength and quick dry-out are its unique characteristics of NC mixes.

RENO NC GUN 85 is recommended for applications in cement kilns, and iron and steel ladle and trough repairs.

SERVICE TEMPERATURE:	3100°F
MATERIAL REQUIRED FOR ESTIMATING:	163 lbs./cu. ft.
STORAGE LIFE:	6 months
BINDER ADDITION:	Adjust at Nozzle

TYPICAL CHEMICAL ANALYSIS (Calcined Basis)

Al ₂ O ₃	SiO ₂	Fe ₂ O ₃	TiO ₂	Other
83 – 85	14 – 16	<1	<1	<1

TYPICAL PHYSICAL PROPERTIES

Prefired to °F	Modulus of Rupture, psi	Cold Crushing Strength, psi	Linear Change %
250	1,500 – 1,970	6,500 – 7,200	-0.4
1500	1,690 – 1,900	5,520 – 9,900	-0.1
2500	1,775 – 2,380	10,700 – 13,380	+0.1
2700	2,300 – 2,685	10,870 – 16,150	+1.2

HOT MOR (ASTM C583) @ 2700°F: 838 psi (Orton)

Abrasion Loss after 1500°F:	<14 cc
Abrasion Loss after 2500°F:	<5 cc
Abrasion Loss after 2700°F:	<4 cc

PACKAGING: 55 lb. Bags, 72 per Pallet (3960 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.