



TECHNICAL DATA SHEET

RENO NC 85 is a high alumina, no cement material with excellent resistance to alkalis, abrasion, molten metals and thermal shock. Ease of installation, dry-out, high hot strength and high thermal shock resistance is some of its unique properties.

RENO NC 85 is recommended for applications where abrasion, chemical attack or thermal shock resistance are issues. Application areas include cement, lime, incineration, boilers, iron, steel and aluminum.

SERVICE TEMPERATURE:	3100°F
MATERIAL REQUIRED FOR ESTIMATING:	180 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
85 - 88	7 - 9	<1.1	2.5 – 3.0

TYPICAL PHYSICAL PROPERTIES

Prefired to °F	Modulus of Rupture, psi	Cold Crushing Strength, psi	Linear Change %	Thermal Conductivity
250	800 – 1,100	5,700 – 11,500	Nil	14.5
1,500	950 – 1,225	9,800 – 13,300	0.3	15.0
2,000	1,700 – 2,250	9,500 – 12,000	0.3	15.4
2,500	1,350 – 1,725	9,000 – 10,000	0.3	15.8
2,750	1,980 – 2,300	10,300 – 12,300	0.4	16.1

APPARENT POROSITY After 2500°F: 12.4%

HOT MOR @ 1500°F:	2,562 psi (Orton)
HOT MOR @ 2500°F:	1,594 psi (Orton)
HOT MOR @ 2750°F:	653 psi (Orton)

ABRASION LOSS After 1500°F:	<4cc
ABRASION LOSS After 2000°F:	<4 cc
ABRASION LOSS After 2500°F:	<3 cc

PACKAGING: 55 lb. Bags, 72 per Pallet (3,960 lbs.)
1,500 lb. Bags, 2 per Pallet (3,000 lbs.)

185000 – 4/30/15

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.