



TECHNICAL DATA SHEET

RENO NC 60 is a high alumina no cement material with excellent resistance to thermal shock and cracking. This material is high in alumina which allows for better thermal conductivity properties. Ease of installation, dry-out, high hot strength and high thermal shock resistance is its unique properties. This material also possesses very good strengths at high temperatures. It is designed to be easily installed by casting or pumping.

RENO NC 60 is recommended for ladles, reheat furnace hearths, and tundish back-up linings and precast shapes for iron and steel applications.

SERVICE TEMPERATURE: 3000°F
MATERIAL REQUIRED FOR ESTIMATING: 160 lbs./cu. ft.
BINDER ADDITION: 9.5 – 10.5% by weight

TYPICAL CHEMICAL ANALYSIS (Calcined Basis)

Al ₂ O ₃	SiO ₂	Fe ₂ O ₃	TiO ₂
57 - 62	38 - 42	0.75 – 1.0	1.75 – 2.0

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	650 – 900	3,500 – 4,500	Nil	9.4
1500	1,200 – 1,450	5,800 – 7,400	-0.1	8.24
2000	1,600 – 1,850	6,000 – 7,800	-0.3	8.42
2500	2,100 – 2,350	6,600 – 8,200	-0.4	9.0
3000	2,700 – 2,950	7,500 – 8,500	+1.1	9.98

HOT MOR (ASTM C583) @ 2500°F: 1,511 - 1,631 psi (Orton)

THERMAL SHOCK AFTER 2000°F: 16% Loss

ABRASION LOSS After 1500°F: <11 cc

ABRASION LOSS After 2000°F: <7 cc

ABRASION LOSS After 2500°F: <6 cc

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.)

182000 - 6/30/15

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.