RENO NC 90 AR



TECHNICAL DATA SHEET

RENO NC 90 AR is a high alumina no cement material with excellent resistance to alkali attack, 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 is resistant to alkali attack.

RENO NC 90 AR is recommended for applications in reheat furnace hearths, torpedo ladles, steel ladle barrels, delta sections and tundish back-up linings.

SERVICE TEMPERATURE: MATERIAL REQUIRED FOR E STORAGE LIFE: BINDER ADDITION:	STIMATING:	3100°F 190 lbs/cf 6 months 8 – 9% by weight	
TYPICAL CHEMICAL ANALYS	SIS (Calcined Basis)		
AI_2O_3	SiO ₂	Fe ₂ O ₃	TiO ₂
89 – 90	5 – 6	<1.06	2.5 – 3.0
TYPICAL PHYSICAL PROPE	RTIES		
Prefired to	Modulus of	Cold Crushing	Linear Change
٥F	Rupture, psi	Strength, psi	%
250	650 – 1,100	5,300 – 7,800	Nil
1,500	1,500 – 1,850	10,400 - 14,900	0.1
2,000	1,650 - 2,300	10,500 - 13,100	-0.1
2,500	2,950 - 4,600	12,500 - 15,900	-0.1
2,750	3,070 - 3,800	>16,000	+0.1
APPARENT POROSITY AFTER 3000°F: 13.14%			
COEFFICIENT OF THERMAL EXPANSION: 4.89 x 10 ⁻⁶ in./in./°F			
HOT MOR @2500°F (Orton): HOT MOR @2750F (Orton):	1315 psi (Orton) 429 psi		

ABRASION LOSS After 1500°F: <15 cc ABRASION LOSS After 2000°F: <7 cc ABRASION LOSS After 2500°F: <7 cc

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

Reno Refractories, PO Box 201, Morris, Alabama 35116 205.647.0240 | Toll Free 1.800.741.7366