



TECHNICAL DATA SHEET

RENO NC 52 AR is a high alumina no cement castable that contains silicon carbide and zircon. RENO NC 52 AR has low porosity, high strengths and excellent resistance to alkali, thermal shock, abrasion and oxidation.

RENO NC 52 AR is recommended for ducts, bullnoses, risers, and hoods in Cement, Lime and Minerals Processing plants. This material can be installed by vibration casting or pumping.

SERVICE TEMPERATURE: 3000°F (Reducing)  
 MATERIAL REQUIRED FOR ESTIMATING: 157 lbs./cu. ft.  
 STORAGE LIFE: 1 year  
 BINDER ADDITION: 10 - 12%

TYPICAL CHEMICAL ANALYSIS (Calcined Basis)

Al <sub>2</sub> O <sub>3</sub>	SiO <sub>2</sub>	ZrO <sub>2</sub>	SiC	Fe <sub>2</sub> O <sub>3</sub>
52	32	5-6	7-8	0.7

TYPICAL PHYSICAL PROPERTIES (Pumped )

Prefired to °F	Modulus of Rupture, psi	Cold Crushing Strength, psi	Linear Change %	Abrasion Loss, cc	Porosity %
250	1,200 – 1,300	5,100 – 6,800	Nil	--	15.3
750	1,200 – 1,350	6,300 – 7,500	Nil	--	15.5
1000	1,250 – 1,360	6,200 – 7,000	-0.2	--	15.5
1500	1,240 – 1.365	6,580 – 7,200	-0.2	7	16.4
2000	1,950 – 2,500	9,000 – 9,300	-0.5	--	13.5
2500	2,200 – 2,850	10,600-13,300	+0.9	5	15.1
2800	2,900 – 3,660	12,900-13,570	+0.7	--	15.0

Coefficient of Thermal Expansion: 2.4 x10<sup>-6</sup> in/in/°F

PACKAGING: 55 lb. Bags, 72 per Pallet (3,960 lbs.)  
1500 lb. bulk bags, 2 per pallet (3,000 lbs)  
2000 lb. bulk bags, 2 per pallet (4,000 lbs)

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.

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, Inc. PO Box 201, Morris, Alabama 35116**  
**205.647.0240 | Toll Free 1.800.741.7366**