



TECHNICAL DATA SHEET

**RENO NC 6044** is a high alumina, silicon-carbide, no-cement material designed to be installed by casting or pumping. This material has high density, low porosity, high hot strength and rapid dry-out characteristics which makes it an excellent material for use in iron foundries and steel mills with erosive conditions. This product can be easily installed with shotcrete equipment; it can be pumpcast, vibra-cast, or shotcreted.

**RENO NC 6044** has excellent resistance to iron, slag, thermal shock and oxidation. This material is recommended for use blast furnace troughs and cupola carbon wells. Can also be used slag runners, skimmer blocks and desulphurization ladles where slag wear is a problem. Precast shapes can be made with this material and installed in many application where slag wear exist.

**SERVICE TEMPERATURE:** 3000°F (reducing)  
**MATERIAL REQUIRED FOR ESTIMATING:** 178 lbs/cf  
**BINDER ADDITION:** 8.5 – 9.5% by weight  
**STORAGE LIFE:** 1 year

**TYPICAL CHEMICAL ANALYSIS (Calcined Basis)**

Al <sub>2</sub> O <sub>3</sub>	SiO <sub>2</sub>	Fe <sub>2</sub> O <sub>3</sub>	TiO <sub>2</sub>	SiC + C
76	5	0.8	2.5	15 - 16

**TYPICAL PHYSICAL PROPERTIES (reducing conditions above 250 °F)**

Prefired to °F	Modulus of Rupture, psi	Cold Crushing Strength, psi	Linear Change %
250	770 - 850	4,600 – 5,260	Nil
1,500	1,800 – 1,920	6,200 – 7,000	-0.1
2,500	1,900 – 2,050	12,300 – 12,700	-0.1

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