



TECHNICAL DATA SHEET

RENO NC 6044 HT 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 harsh conditions.

RENO NC 6044 HT 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 and desulphurization ladles where slag wear is a problem.

SERVICE TEMPERATURE:	3100°F (reducing)
MATERIAL REQUIRED FOR ESTIMATING:	177 lbs/cf
BINDER ADDITION:	9 - 10% by weight
STORAGE LIFE:	1 year

TYPICAL CHEMICAL ANALYSIS (Calcined Basis)

Al ₂ O ₃	SiO ₂	Fe ₂ O ₃	TiO ₂	SiC + C
80	8	0.3	0.1	13 - 14

TYPICAL PHYSICAL PROPERTIES (reducing conditions above 250 °F)

Prefired to °F	Modulus of Rupture, psi	Cold Crushing Strength, psi	Linear Change %
250	870 - 950	5,420 – 6,400	Nil
1,500	1,600 – 1,723	7,660 – 8,400	-0.1
2,500	2,280 – 2,450	7,300 – 11,070	-0.1

ABRASION LOSS After 2000°F: <4 cc

ABRASION LOSS After 2500°F: <4 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.