



TECHNICAL DATA SHEET

RENO NC 810 is a high alumina silicon-carbide, no-cement castable. This material has high density, low porosity, high hot strength and rapid dry-out characteristics which makes it an excellent material for use in foundries and steel mills with harsh conditions. This material may be pump cast using 3" or greater hoses/pipe.

RENO NC 810 has excellent resistance to iron, slag, thermal shock and oxidation. This product is recommended for use in blast furnace troughs, and skimmer-blocks, cupola wells, troughs, and tap-hole blocks. Also, it is an excellent refractory for holding and pressure-pour furnaces, receiver and discharge spouts, and ductile treatment ladles. Can also be used where slag wear is a problem.

SERVICE TEMPERATURE:	3000°F (reducing)
MATERIAL REQUIRED FOR ESTIMATING:	193 lbs/cf
BINDER ADDITION: CAST	7.0 – 8.0% by weight
PUMP	7.0 – 9.0%
STORAGE LIFE:	6 months

TYPICAL CHEMICAL ANALYSIS (includes binder) (Calcined Basis)

Al ₂ O ₃	SiO ₂	TiO ₂	SiC + C
76	7	1.6	15

TYPICAL PHYSICAL PROPERTIES

Prefired to °F	Modulus of Rupture, psi	Cold Crushing Strength, psi	Linear Change %	Porosity %	Thermal Conductivity
250	93-133	500 - 900	0.2	13.7	28.2
1,500	830 – 1,390	4,700 – 6,575	-0.1	12.3	20.1
2,000	920 – 1,530	5,250 – 7,100	0.1	11.0	20.1
2,500	1,000 – 1,350	5,700 – 8,000	0.5	13.3	22.0
2,800	868 – 1,260	5,940 – 9,025	0.6	13.2	24.1

HOT MOR @2500 °F: 1,923 psi
HOT MOR @2700 °F: 732 psi

ABRASION LOSS After 1500°F: 6 cc
ABRASION LOSS After 2000°F: 5 cc
ABRASION LOSS After 2500°F: 8 cc

PACKAGING: 55 lb. Bags, 72 per Pallet (3,960 lbs.)
1500 lb. Bags, 2 per Pallet (3,000 lbs.)
1000 lb. Bags, 2 per Pallet (2,000 lbs.)

187000 – 4/28/15

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.