RENO REFRACTORIES, INC

RENO NC 810

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:	3000ºF (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_2O_3	SiO_2	TiO_2	SiC + C
72 – 74	2 – 3	0 – 3	10 - 12

TYPICAL PHYSICAL PROPERTIES

Prefired to ºF	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 ºF: 1,923 psi
HOT MOR @2700 ºF: 732 psi

ABRASION LOSS After 1500ºF: 6 cc
ABRASION LOSS After 2000ºF: 5 cc
ABRASION LOSS After 2500ºF: 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

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