



RENO REFRACTORIES, INC

RENO NC PUMP 50 FS

TECHNICAL DATA SHEET

RENO NC PUMP 50 FS is a fused silica, no cement castable that can be installed by casting or pumping.

NC PUMP 50 FS has good strength, thermal shock resistance and volume stability.

RENO NC PUMP 50 FS is recommended for casting coke oven flue walls, floors, and doors for the original lining as well as for repairing existing linings.

SERVICE TEMPERATURE:	2750°F
MATERIAL REQUIRED FOR ESTIMATING:	135 lbs/cf
BINDER ADDITION FOR PUMPING:	13 - 14%
STORAGE LIFE:	6 months

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>
29 – 30	68 – 70	0.2

TYPICAL PHYSICAL PROPERTIES

Prefired to °F	Modulus of Rupture, psi	Cold Crushing Strength, psi	Linear Change %
250	850 – 950	5,750 – 6,600	0.0
1,500	1,080 – 1,200	7,100 – 8,130	-0.3
2,000	950 – 1,120	6,500 – 8,960	
2,300	880 – 1,000	6,100 – 6,500	+0.4

POROSITY @ 1500°F:	17.8%
COEF. THERMAL EXPANSION:	-0.8 x 10 <sup>6</sup>

PACKAGING: 55 lb. Bags, 72 per Pallet (3960 lbs.)

189800 – 2/19/14

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.