



TECHNICAL DATA SHEET

RENO NC 50 is a high alumina no-cement material with excellent resistance to thermal shock and abrasion. It is designed to be easily installed by casting. High density, low porosity, high hot strength, and quick dry-out are its unique characteristics.

RENO NC 50 is recommended for applications in reheat furnace subhearth, aluminum furnace upper walls and roofs, tundish back-up linings, and covers.

SERVICE TEMPERATURE: 2850°F
MATERIAL REQUIRED FOR ESTIMATING: 150 lbs/cf
STORAGE LIFE: 1 year
BINDER ADDITION: 10-11%

TYPICAL CHEMICAL ANALYSIS (includes binder) (Calcined Basis)

Table with 4 columns: Al2O3, SiO2, Fe2O3, TiO2 and their respective ranges: 50-52, 46-47, 0.7-0.9, 1.0-1.7

TYPICAL PHYSICAL PROPERTIES

Table with 5 columns: Prefired to °F, Modulus of Rupture, psi, Cold Crushing Strength, psi, Linear Change %, and 'K' Factor Btu/ft²/hr/in/°F

ABRASION LOSS After 2000°F: <9 cc
ABRASION LOSS After 2500°F: <9 cc

APPARENT POROSITY @ 1500°F: 17.26%
APPARENT POROSITY @ 2850°F: 12.20%

HOT MOR (ASTM C583) @ 2500°F: 1,322 psi (Orton)

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