



RENO REFRACTORIES, INC

RENO AluSHIELD NC 80

TECHNICAL DATA SHEET

RENO AluSHIELD NC 80 is a high alumina, mullite based, no cement, non-wetting castable designed to be installed by casting, pumping or shotcreting.

FEATURES:

- Excellent resistance to aluminum penetration
- Resists alkali attack
- Excellent thermal shock resistance
- Less than 0.6% crystalline silica
- Applications include aluminum contact areas in melting and holding furnaces, ladles, runners and doors

SERVICE TEMPERATURE: 2800°F
MATERIAL REQUIRED FOR ESTIMATING: 170 lbs./ft³
BINDER ADDITION: 9.5 – 10.5%

TYPICAL CHEMICAL ANALYSIS (Calcined Basis)

Al ₂ O ₃	SiO ₂	Fe ₂ O ₃	TiO ₂
77	19	0.8	1.0

TYPICAL PHYSICAL PROPERTIES

Prefired to °F	Modulus of Rupture, psi	Cold Crushing Strength, psi	Linear Change %
250	1375	5,322	Nil
1000	1618	6,486	0.0
1500	2100	6,357	0.0
2000	2920	8,050	-0.2
2500	3850	10,530	-0.2

ABRASION LOSS After 1500°F: 3 cc
THERMAL SHOCK After 2200°F: 14% MOR Loss (ASTM C-1171)
ALUMINUM CUP TEST RATING: Excellent

PACKAGING: 55 lb. Bags, 72 per Pallet (3960) lbs.183100 – 8/12/14

604080 – 5/30/2017

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.