



RENO REFRACTORIES, INC

RENO AluSHIELD NC 70

TECHNICAL DATA SHEET

RENO AluSHIELD NC 70 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
- Good thermal shock resistance
- Less than 0.6% crystalline silica
- High hot strength
- Applications include aluminum contact areas in melting and holding furnaces, ladles, runners and doors

SERVICE TEMPERATURE:

2500°F

MATERIAL REQUIRED FOR ESTIMATING:

156 lbs./ft³

BINDER ADDITION:

9.5 - 11%

TYPICAL CHEMICAL ANALYSIS (Calcined Basis)

Al ₂ O ₃	SiO ₂	Fe ₂ O ₃	TiO ₂
67.7	29.7	0.8	1.5

TYPICAL PHYSICAL PROPERTIES

Prefired to °F	Modulus of Rupture, psi	Cold Crushing Strength, psi	Linear Change %
250	840	3,020	Nil
1000	950	4,550	-0.1
1500	1,320	5,210	-0.1
2000	2,262	7,150	-0.4
2500	3,070	8,530	-0.2

HOT MOR @ 1500°F: 3,890 psi

POROSITY at 1500°F: 17.5%

ABRASION LOSS After 1500°F: 9.2 cc

ABRASION LOSS After 2000°F: 4.0 cc

THERMAL SHOCK After 2000°F: 27% MOR Loss (ASTM C-1171)

ALUMINUM CUP TEST RATING: Very Good

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

23-087

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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.

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