



**RENO REFRACTORIES, INC**

**RENO AluSHIELD NC 65**

**TECHNICAL DATA SHEET**

**RENO AluSHIELD NC 65** is a high alumina, no-cement, non-wetting castable designed to be installed by casting, pumping or shotcreting.

**Features:**

- Excellent resistance to aluminum penetration
- Very good alkali resistance
- Abrasion resistance
- Excellent thermal shock resistance
- Less than 1.8% crystalline (free) silica
- Applications include aluminum contact areas in melters, holders, troughs and ladles

**SERVICE TEMPERATURE:** 2500°F  
**MATERIAL REQUIRED FOR ESTIMATING:** 160 lbs./ft<sup>3</sup>  
**BINDER ADDITION:** 10-11%

**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>	Other
63-65	32-35	<1.0	3

**TYPICAL PHYSICAL PROPERTIES**

Prefired to °F	Modulus of Rupture, psi	Cold Crushing Strength, psi	Porosity %	Linear Change %	Thermal Cond. Btu-in/hr-ft <sup>2</sup> °F
250	1,200-1,316	5,600-6,550	-	-0.1	10.3
1000	1,300-1,390	5,900-8,300	-	0.0	-
1500	1,800-2,230	8,500-10,100	14.8	-0.1	11.05
2000	2,700-3,589	>14,200	17.0	0.0	11.11
2500	5,380-6,300	>14,100	-	+0.6	11.04

**HOT MODULUS OF RUPTURE, 1500°F:** 1,979 psi

**ABRASION LOSS After 1500°F:** <14 cc

**ABRASION LOSS After 2000°F:** <5 cc

**THERMAL SHOCK AFTER 2000°F ASTM C-1171:** 6% Loss

**ALUMINUM CUP TEST RATING:** Very Good

**PACKAGING:** 1500 lb. bulk bags, 2 per pallet (3000 lbs); 2000 lb. bulk bags, 2 per pallet (4000 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.

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