



**RENO REFRACTORIES, INC**

**RENO AluSHIELD 757**

**TECHNICAL DATA SHEET**

**RENO AluSHIELD 757** is a silica fume free, alumina based, zircon containing, non-wetting refractory. Excellent non-wetting and resistant to corundum buildup. Recommended for lower walls, hearths, ramps & sills and belly band areas.

**FEATURES:**

- Free silica is less than 0.75%
- Excellent Thermal Shock Resistance
- Excellent Abrasion Resistance
- Alkali Resistance is fair
- Corundum Resistant

**SERVICE TEMPERATURE:**

2500°F

**MATERIAL REQUIRED FOR ESTIMATING:**

172 lbs./ft<sup>3</sup>

**WATER ADDITION:**

5.5-6.5%

**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>	Zr <sub>2</sub> O <sub>3</sub>	TiO <sub>2</sub>	MgO	CaO	Alkali
77	10	1.5	7.5	3	< 0.3	2.5	< 0.3

**TYPICAL PHYSICAL PROPERTIES**

Prefired to °F	Modulus of Rupture, psi	Cold Crushing Strength, psi	Linear Change (%)	Porosity %
250	846	6,807	0.2	7.6
750	624	5,587	Nil	9.8
1500	428	5,471	Nil	16.2
2000	720	6,935	0.2	16.6
2200	1,783	11,671	0.5	18.2

**HMOR at 1500°F:** 4,198 psi

**ABRASION LOSS After 1500°F:** 3 cc

**THERMAL SHOCK After 2000°F:** 24% MOR Loss (ASTM C-1171)

**ALUMINUM CUP TEST RATING:** Excellent

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

**CURE OUT SCHEDULE:** J1 or J2

23-098 H; 24-009

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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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