



RENO REFRACTORIES, INC

RENO CAST 70 UL

TECHNICAL DATA SHEET

**RENO CAST 70 UL** is a high alumina, mullite based, ultralow cement castable. It demonstrates high hot strengths and density to resist abrasion, chemical attack and erosion at elevated temperatures. Low porosity reduces penetration and reaction by alkali, molten metal and slags. Applications include cement kiln burner pipes, nose rings and feed shelves and molten iron transfer ladles.

<b>SERVICE TEMPERATURE:</b>	3100°F
<b>MATERIAL REQUIRED FOR ESTIMATING:</b>	160 lbs./cu. ft.
<b>CASTING WATER:</b>	4.5 - 5.5% by weight
<b>PUMPING WATER:</b>	5.0 - 6% by weight

**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>	TiO <sub>2</sub>	CaO	Alkalies
69 – 72	23 – 25	<1.0	<2.2	<1.0	<0.2

**TYPICAL PHYSICAL PROPERTIES**

Prefired to °F	Modulus of Rupture, psi	Cold Crushing Strength, psi	Linear Change %	Hot MOR psi	Porosity %
250	1,700 – 2,000	5,750 – 7,250	Nil		
1500	1,800 – 2,280	6,700 – 9,400	-0.2	3,850	16.4
2000	3,500 – 4,000	10,000 – 12,500	-0.3		
2500	3,700 – 4,200	>14,000	-0.1		16.5
2750	3,536 – 3,802	15,075 – 15,382	+0.4	1,126	

**ABRASION LOSS after 1500F:** 3 - 4 cc  
**after 2500F:** 2 - 3 cc

**PACKAGING:** 55 lb. Bags, 72 per Pallet (3960 lbs.)  
2000 lb. 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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