



RENO REFRACTORIES, INC

RENO PUMP 85 UL

TECHNICAL DATA SHEET

RENO PUMP 85 UL is a high alumina, ultralow cement castable. It demonstrates high strengths and resists abrasion and erosion at elevated temperatures. Low porosity reduces penetration and reaction by molten metal, oxide and slag. Applications include ladles and delta sections.

RENO PUMP 85 UL can be installed by casting, pumping or shotcreting

SERVICE TEMPERATURE:	3200°F
MATERIAL REQUIRED FOR ESTIMATING:	170 lbs./cu. ft. (pumped)
CASTING WATER: (approx.)	4.5 - 5.5%
PUMPING WATER:	5 – 6%

TYPICAL CHEMICAL ANALYSIS (Calcined Basis)

Al ₂ O ₃	SiO ₂	Fe ₂ O ₃	TiO ₂	MgO	CaO	Alkalies	Other
85	12	0.5	0.6	0.1	<1.5	0.3	0.2

TYPICAL PHYSICAL PROPERTIES (pump)

Prefired to °F	Modulus of Rupture, psi	Cold Crushing Strength, psi	Linear Change %	Porosity %	Thermal Conductivity
250	900 – 1,130	6,200 – 7,400	-0.2	--	
1500	1,100 – 1,600	7,200 – 11,500	-0.1	14.5	13.4
2500	1,350 – 2,025	10,300 – 16,200	+0.4	15.1	15.2
2700	1,325 – 1,520	10,050 – 12,200	+0.7	15.1	15.8
3000	1,560 – 2,200	13,250 – 16,300	+0.3	15.3	---

HOT MOR (ASTM C583) @ 2500°F: 630 psi
HOT MOR (ASTM C583) @ 2750°F: 365 psi

Abrasion Loss after 1500F: <5 cc
Abrasion Loss after 2000F: <5 cc
Abrasion Loss after 2500F: <5 cc

Coefficient of Thermal Expansion: 3.45 x10⁻⁶ in/in/°F

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