



RENO REFRACTORIES, INC

Reno Lite 90 LI

TECHNICAL DATA SHEET

Reno Lite 90 LI is a low iron 2600°F medium weight castable that has moderate strength suitable exposure to reducing atmosphere as a backup or hot face lining. **Reno Lite 90 LI** can be installed by either pump cast, wet gunned, casting or gunning methods.

Service Temperature:	2600°F / 1426°C	Wt. Required for Estimating:	89 lbs/ft ³ (Cast) 104 lbs/ft ³ (Gunned)
Liquid Type:	Water	Storage Life:	6 months
Addition Quantity:	25.0 to 26.0% (Pump) 22.0 to 25.0% (Cast)	Pre damp water required	1 to 2 qt / 50 lb bag

TYPICAL CHEMICAL ANALYSIS(% Calcined Basis)

Al ₂ O ₃	SiO ₂	Fe ₂ O ₃	TiO ₂	CaO	MgO	Alkalis	Other
38.9	45.3	1.0	1.4	12.4	0.2	0.7	-

TYPICAL COLD PHYSICAL PROPERTIES (Cast)

Temperature °F	Installation Method	Cold Modulus of Rupture (psi)	Cold Crushing Strength (psi)	Density (lbs/ft ³)	Linear Change (%)
1500°F 2000°F	Cast	200 – 300 200 – 300	900 – 1400 800 – 1200	88 - 92	0.0 to -0.3 -0.1 to -0.4
1500°F 2000°F	Guniting	500 – 800 500 – 800	1400 – 2200 1400 – 2100	95 - 102	-0.1 to -0.3 -0.1 to -0.4

Temperature °C	Installation Method	Cold Modulus of Rupture (MPa)	Cold Crushing Strength (MPa)	Density (kg/m ³)	Linear Change (%)
815°C 1093°C	Cast	1.4 – 2.1 1.4 – 2.1	6.2 – 9.7 5.5 – 8.3	1409 – 1473	0.0 to -0.3 -0.1 to -0.4
815°C 1093°C	Guniting	3.4 – 5.5 3.4 – 5.5	9.6 – 15.2 9.6 – 14.5	1521 - 1634	-0.1 to -0.3 -0.1 to -0.4

TYPICAL HOT PHYSICAL PROPERTIES

Temperature °F	Thermal Conductivity (BTU/ft ² /hr/in/°F)
500	2.4
1000	2.5
1500	2.85

Temperature °C	Thermal Conductivity W/(m K)
260	0.346
538	0.360
815	0.411

PACKAGING: 72/55 lb. bags per Pallet (3,960 lbs.), 4/500 lb. bulk bags per pallet (2,000 lbs)

RB

PIN# 611000

09/04/2026

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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