



RENO REFRACTORIES, INC

# Reno Lite 60 LI

## TECHNICAL DATA SHEET

**Reno Lite 60 LI** is a low iron lightweight insulation castable used in service where reducing atmosphere are present and has a temperature limit of 2400 °F. **Reno Lite 60 LI** is alkaline hydrolysis resistant with a low thermal conductivity. **Reno Lite 60 LI** can be hand packed, cast or gunned. For installation pump method reference **Reno Lite 60P LI**

Service Temperature:	2400°F/1315°C	Wt. Required for Estimating:	60 lbs/ft <sup>3</sup> 850 kg/m <sup>3</sup>
Liquid Type:	Water	Storage Life:	6 months
Addition Quantity:	8.5 to 9.5 qt / 50 lb bag	Required : Pre damp water:	2 - 3 qt / 50 lb bag

### 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>	MgO	TiO <sub>2</sub>	CaO	Alkalis	Other
31.8	52.1	1.0	0.2	1.0	12.2	1.5	-

### TYPICAL COLD PHYSICAL PROPERTIES

Temperature °F	Installation Method	Cold Modulus of Rupture (psi)	Cold Crushing Strength (psi)	Density (lbs/ft <sup>3</sup> )	Linear Change (%)
1500°F	Cast	100 – 200	350 - 650	60 - 65	-0.2 to -0.5
	Gunned	250 - 450	500 - 900	68 - 75	-0.3 to -0.6
2000°F	Cast	100 – 300	400 – 700	-	-0.3 to -0.7
	Gunned	350 - 550	600 - 1000	-	-0.4 to -0.8

Temperature °C	Installation Method	Cold Modulus of Rupture (MPa)	Cold Crushing Strength (MPa)	Density (kg/m <sup>3</sup> )	Linear Change (%)
815°C	Cast	0.7 – 1.4	2.4 – 4.4	850 – 915	-0.2 to -0.5
	Gunned	1.7 – 3.1	3.4 – 6.2	930 - 1060	-0.3 to -0.6
1093°C	Cast	0.7 – 1.7	2.8 – 4.8	-	-0.3 to -0.7
	Gunned	2.4 – 3.8	4.1 - 6.9	-	-0.4 to -0.8

### TYPICAL HOT PHYSICAL PROPERTIES

Fired to °F	Thermal Conductivity (BTU/ft <sup>2</sup> /hr/in/°F)
500	1.80
1000	1.70
1500	1.70

Fired to °C	Thermal Conductivity W/(m K)
260	0.259
538	0.245
815	0.245

PACKAGING: 50 lb. Bags, 40 per Pallet (2,000 lbs.)

RB

PIN# 610510

01/25/2023

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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