



RENO REFRACTORIES, INC

## Reno Lite 80 LI

### TECHNICAL DATA SHEET

**Reno Lite 80 LI** is a low iron 2500°F medium weight castable that has moderate strength suitable exposure to reducing atmosphere as a backup or hot face lining. **Reno Lite 80 LI** can be installed by either hand packing, casting or gunning methods. For pump applications **Reno Lite 80 LI P** is recommended.

Service Temperature:	2500°F / 1370°C	Wt. Required for Estimating:	80 lbs/ft <sup>3</sup> (Cast) 90 lbs/ft <sup>3</sup> (Gunned)
Liquid Type:	Water	Storage Life:	6 months
Addition Quantity:	Adjust at nozzle 6 TO 7 QT / 50lb bag	Pre damp water required	1 to 2 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>	TiO <sub>2</sub>	CaO	MgO	Alkalis	Other
43.5	40.7	1.0	1.5	12.2	0.2	0.9	-

#### TYPICAL COLD PHYSICAL PROPERTIES (Cast)

Temperature °F	Installation Method	Cold Modulus of Rupture (psi)	Cold Crushing Strength (psi)	Density (lbs/ft <sup>3</sup> )	Linear Change (%)
1500°F	Cast	200 – 300	600 - 1000	77 - 83	-0.1 to -0.4
	Gunned	300 - 500	1500 - 2000	85 - 95	-0.2 to -0.5
2000°F	Cast	200 – 300	700 – 1000	-	-0.3 to -0.7
	Gunned	350 - 550	1500 - 2000	-	-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	1.4 – 2.1	4.1 – 6.9	1233 – 1328	-0.1 to -0.4
	Gunned	2.1 – 3.4	10.3 – 13.8	1360 - 1520	-0.2 to -0.5
1093°C	Cast	1.4 – 2.1	4.8 – 6.9	-	--0.3 to -0.7
	Gunned	2.4 – 3.8	10.3 – 13.8	-	-0.4 to -0.8

#### TYPICAL HOT PHYSICAL PROPERTIES

Temperature °F	Thermal Conductivity (BTU/ft <sup>2</sup> /hr/in/°F)
500	2.3
1000	2.5
1500	2.6

Temperature °C	Thermal Conductivity W/(m K)
260	0.332
538	0.360
815	0.375

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

RB

PIN# 610800

01/23/2023

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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