



RENO REFRACTORIES, INC

## Reno Lite 80 EX

### TECHNICAL DATA SHEET

**Reno Lite 80** is a high performance 2500°F medium weight castable suitable exposure at the hot face of the refractory lining. **Reno Lite 80 EX** can be installed by either hand packed, casting or gunning method. For pump application **Reno Lite 80 EX P** is recommended.

Service Temperature:	2500°F / 1370°C	Wt. Required for Estimating:	75 lbs/ft <sup>3</sup> (Cast) 85 lbs/ft <sup>3</sup> (Gunned)
Liquid Type:	Water	Storage Life:	6 months
Addition Quantity:	Adjust at nozzle 26.0 to 28.0%	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
31.7	48.7	4.1	0.9	13.7	0.3	0.5	-

#### 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	450 - 550	2300 - 2700	80 - 85	-0.1 to -0.4
	Gunned	500 - 700	3000 - 3500	90 - 98	-0.2 to -0.5
2000°F	Cast	400 - 500	2300 - 2700	-	-0.3 to -0.7
	Gunned	450 - 650	3000 - 3500		-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	3.1 - 3.8	15.8 - 18.6	1280 - 1360	-0.1 to -0.4
	Gunned	3.4 - 4.8	20.7 - 24.1	1440 - 1570	-0.2 to -0.5
1093°C	Cast	2.8 - 3.4	15.8 - 18.6	-	-0.3 to -0.7
	Gunned	3.1 - 4.5	20.7 - 24.1		-0.4 to -0.8

#### TYPICAL HOT PHYSICAL PROPERTIES

Temperature °F	Thermal Conductivity (BTU/ft <sup>2</sup> /hr/in/°F)	Temperature °C	Thermal Conductivity W/(m K)
500	2.3	260	0.332
1000	2.5	538	0.360
1500	2.6	815	0.375

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

RB

PIN# 610700

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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