



RENO REFRACTORIES, INC

Reno Lite 97 LI

TECHNICAL DATA SHEET

Reno Lite 97 LI is a high purity and high temperature insulating castable that has high strength exposure to reducing atmosphere containing carbon monoxide and hydrogen. **Reno Lite 97 LI** is installed by vibration cast method.

Service Temperature: 3300°F / 1815°C Wt. Required for Estimating: 95 lbs/ft³

Liquid Type: Water Storage Life: 6 months

Addition Quantity: 12.55 to 16.74% (Cast)

TYPICAL CHEMICAL ANALYSIS(% Calcined Basis)

Al ₂ O ₃	SiO ₂	Fe ₂ O ₃	TiO ₂	CaO	MgO	Alkalis	Other
95.7	0.05	0.1	Trace	4.1	0.1	0.2	-

TYPICAL COLD PHYSICAL PROPERTIES (Cast)

Prefired to °F	Installation Method	Cold Modulus of Rupture (psi)	Cold Crushing Strength (psi)	Density (lbs/ft ³)	Linear Change (%)
1500°F	Cast	350 - 425	1200 - 1500	88 - 95	-0.0 to -0.2
1800°F	Cast	350 - 450	1450 - 1850	88 - 95	-0.0 to -0.2
2700°F	Cast	550 - 675	2000 - 2500	88 - 95	-0.0 to -0.4

Prefired to °F	Installation Method	Cold Modulus of Rupture (MPa)	Cold Crushing Strength (Mpa)	Density (kg/m ³)	Linear Change (%)
815°C	Cast	2.4 – 2.9	8.3 – 10.3	1400 - 1520	-0.0 to -0.2
982°C	Cast	2.4 – 3.1	10.0 – 12.8	1400 - 1520	-0.0 to -0.2
1482°C	Cast	3.8 – 4.6	13.8 – 17.2	1400 - 1520	-0.0 to -0.4

TYPICAL HOT PHYSICAL PROPERTIES

Fired to °F	Thermal Conductivity (BTU/ft ² /hr/in/°F)	Fired to °C	Thermal Conductivity W/(m K)
500	10.6	260	1.53
1000	9.1	538	1.31
1500	8.8	815	1.27
2000	8.3	1093	1.20

PACKAGING: 55 lb. Bags, 72 per Pallet (3,960 lbs.)

RB

PIN# 611050 8/13/2024

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.

Reno Refractories, PO Box 201, Morris, Alabama 35116
205.647.0240 | Toll Free 1.800.741.7366