



RENO REFRACTORIES, INC

Reno Lite 55 EX

TECHNICAL DATA SHEET

Reno Lite 55 EX is an insulating refractory castable designed that offers a higher strength to insulation ratio with an installed density of approximately 55 lb/ft³. **Reno Lite 55 EX** is alkaline hydrolysis resistant with a low thermal conductivity. **Reno Lite 55 EX** can be hand packed, cast or gunned.

Service Temperature:	2300°F/1205°C	Wt. Required for Estimating:	55 lbs/ft ³ 850 kg/m ³
Liquid Type:	Water	Storage Life:	6 months
Addition Quantity:	Adjust as needed at nozzle	Required : Pre damp water:	10.5 qt / 50 lb bag
	Cast: 11.5 to 12.5 qt / 50 lb bag		

TYPICAL CHEMICAL ANALYSIS(% Calcined Basis)

Al ₂ O ₃	SiO ₂	Fe ₂ O ₃	MgO	TiO ₂	CaO	Alkalis	Other
32.5	45.9	3.1	1.6	1.0	14.2	1.1	-

TYPICAL COLD PHYSICAL PROPERTIES

Temperature °F	Installation Method	Cold Modulus of Rupture (psi)	Cold Crushing Strength (psi)	Density (lbs/ft ³)	Linear Change (%)
1500°F	Cast	100 – 200	350 - 550	53 - 57	-0.3 to -0.7
	Gunned	150 - 250	500 - 900	58 - 66	

Temperature °C	Installation Method	Cold Modulus of Rupture (MPa)	Cold Crushing Strength (MPa)	Density (kg/m ³)	Linear Change (%)
815°C	Cast	0.7 – 1.4	2.4 – 3.8	850 – 915	-0.3 to -0.7
	Gunned	1.0 – 1.7	3.4 – 6.2	930 - 1060	

TYPICAL HOT PHYSICAL PROPERTIES

Fired to °F	Thermal Conductivity (BTU/ft ² /hr/in/°F)
500	2.3
1000	1.9
1500	2.1

Fired to °C	Thermal Conductivity W/(m K)
260	0.332
538	0.274
815	0.303

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

RB

PIN# 610490

02-21-2023

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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