RENO REFRACTORIES, INC

Reno Cast 99 LC

TECHNICAL DATA SHEET

Reno Cast 99 LC is a high alumina spinel low cement castable. Designed to be resistant to iron penetration and slag corrosion and erosion.

Service Temperature: Liquid Type: Addition Quantity:

3000°F / 1649°C Water 3.50 - 4.75% Wt. Required for Estimating:185 lbs/ft³Storage Life:6 months

TYPICAL CHEMICAL ANALYSIS (% Calcined Basis)

Al ₂ O ₃	SiO ₂	Fe ₂ O ₃	TiO ₂	MgÔ	CaO	Alkalies	Other
93 - 96	< 0.1	< 0.1	< 0.05	2 - 5	1 – 3	< 0.25	< 0.10

TYPICAL COLD PHYSICAL PROPERTIES

Prefired to °F	Cold Modulus of Rupture (psi)	Cold Crushing Strength (psi)	Density (pcf)	Porosity (%)	Linear Change (%)
1500	1,100 – 1,900	7,500 – 13,000	185	17.9	0.0 to -0.4

TYPICAL HOT PHYSICAL PROPERTIES

Prefired	Thermal Conductivity	Thermal Expansion
to °F	(BTU/ft²/hr/in/°F)	(%)
250	16.2	0.10
750	14.9	0.45
1500	14.1	0.97
2000	13.8	1.30
2500	13.5	1.65
2800	13.4	1.90

Standard Cure Out Schedule: Schedule E

Packaging: 72/55 lb. bags per pallet

23-019

PIN#616000 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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