



RENO REFRACTORIES, INC

RENO CAST 80 SIC LC

TECHNICAL DATA SHEET

RENO CAST 80 SIC LC is a fine grained, very pure low cement castable containing a high percentage of silicon carbide. Can be cast or pumped. Abrasion resistance, very high strengths and thermal shock resistance are attributes that allow **RENO CAST 80 SIC LC** to withstand harsh service conditions.

SERVICE TEMPERATURE: 3000°F
MATERIAL REQUIRED FOR ESTIMATING: 160 lbs./cu. ft.
CASTING WATER: 5.5 - 6.5%

TYPICAL CHEMICAL ANALYSIS (Reducing Conditions)

Al ₂ O ₃	SiO ₂	Fe ₂ O ₂	TiO ₂	CaO	SIC	Alkalies	Other
13.7	7.3	0.2	Nil	2.0	76	0.1	1.1

TYPICAL PHYSICAL PROPERTIES

Prefired to °f	Modulus of Rupture, psi	Cold Crushing Strength, psi	Linear Change %
250	2,900 – 3,200	7,930 – 9,200	Nil
1000	2,500 – 3,000	12,100 – 13,400	-0.1
1500	4,030 – 4,470	9,700 – 15,300	-0.2
2000	5,000 – 5,450	13,000 – 13,750	-0.3
2500	3,650 – 3,950	12,250 – 13,100	+0.1
2800	6,050 – 6,400	13,850 – 14,350	+0.1
3000	6,480 – 6,900	13,400 – 14,200	-0.6

ABRASION LOSS AFTER 1500°F: <4 cc

THERMAL CONDUCTIVITY AFTER 1500°F: 37 Btu-in/h-ft²-°F

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

166700 – 1/17/23

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.