



RENO REFRACTORIES, INC

RENO NC GUN 85 SIC

TECHNICAL DATA SHEET

RENO NC Gun 85 SIC is a high silicon carbide no cement gunnite for resistance of iron and slag.

- High Strength
- Low Porosity
- Excellent Resistance to Iron and Slag
- Excellent Thermal Cycling
- Low Abrasion Loss
- Rapid Dry-Out

RENO NC Gun 85 SIC is recommended for maintenance of cupola melt zones and carbon wells either as an original lining or for resurfacing.

SERVICE TEMPERATURE: 2850°F
MATERIAL REQUIRED FOR ESTIMATING: 158 lbs./cu. ft.
STORAGE LIFE: 1 year
BINDER ADDITION: Added at Nozzle ~15%

TYPICAL CHEMICAL ANALYSIS (Calcined Basis)

Al ₂ O ₃	SiO ₂	Fe ₂ O ₃	TiO ₂	SiC + C	Other
9.4	3.4	0.14	0.04	85.3	1.72

TYPICAL PHYSICAL PROPERTIES (Gunned)

Pre-fired to °F	Modulus of Rupture, psi	Cold Crushing Strength, psi	Linear Change %	Abrasion Loss, cc	Porosity %
750	965 – 1,000	3,995 – 5,325	+0.40	--	19.0
1500	1,900 – 2,400	6,350 – 8,000	+0.15	<8	19.1
2000	2,135 – 2,400	7,700 – 8,100	+0.25		17.0
2500	2,840 – 3,000	8,500 - 10,500	+0.40	<4	14.6
2800	2,900 – 3,200	10,000 - 12,000	+0.80		13.1

Thermal Cycle Loss after 2000°F: 11.0%

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

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

21-084 J; 21-159A

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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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