



RENO REFRACTORIES, INC

RENO NC 30 SiC

TECHNICAL DATA SHEET

**RENO NC 30 SiC** is a very pure no cement castable containing a high percentage of silicon carbide. This material was developed to be pumped or cast into place. Reno NC 30 SiC has excellent thermal shock, and resistance to alkalis. This castable is recommended for roofs, bullnoses, risers, and hoods in Cement, Lime and Minerals Processing plants.

**SERVICE TEMPERATURE:** 3200°F  
**MATERIAL REQUIRED FOR ESTIMATING:** 160 lbs./cu. ft.  
**BINDER ADDITION REQUIRED:** 9 - 11%

**TYPICAL CHEMICAL ANALYSIS (Reducing Conditions)**

Al <sub>2</sub> O <sub>3</sub>	SiO <sub>2</sub>	Fe <sub>2</sub> O <sub>3</sub>	SiC	TiO <sub>2</sub>	CaO
44	28	<0.03	27.5	Nil	Nil

**TYPICAL PHYSICAL PROPERTIES (\*Fired in a reducing atmosphere)**

Prefired to °F	Modulus of Rupture, psi	Cold Crushing Strength, psi	Linear Change %
250	776	5,904	Nil
1500*	1,332	6,975	Nil
2000*	1,620	9,687	Nil
2500*	2,101	11,086	-0.1

**THERMAL CYCLE, ASTM C-1171:** 11% loss after cycling.

**ABRASION, ASTM-C704 @ 1500°F:** 9 cc

**PACKAGING:** 55 lb. Bags, 72 per Pallet (3960 lbs.)  
1500 lb. Bags, 2 per Pallet (3000 lbs.)  
2000 lb. Bags, 2 per Pallet (4000 lbs.)

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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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