



RENO REFRACTORIES, INC

JET CAST NC SIC

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TECHNICAL DATA SHEET

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**JET CAST NC SIC** is a high alumina-silicon carbide no cement material designed to be installed by pumping or by the patented Jet Cast system. This material has high density, low porosity, high hot strength and rapid dry-out characteristics which makes it an excellent material for use in foundries and steel mills with harsh conditions.

**JET CAST NC SIC** has excellent resistance to iron, slag, thermal shock and oxidation. This material is recommended for use blast furnace troughs and cupola carbon wells. Can also be used where slag wear is a problem.

**SERVICE TEMPERATURE:** 3000°F (reducing)  
**MATERIAL REQUIRED FOR ESTIMATING:** 187 lbs/cf  
**BINDER ADDITION:** 8 - 9% by weight  
**STORAGE LIFE:** 1 year

**TYPICAL CHEMICAL ANALYSIS (includes binder) (Calcined Basis)**

Al <sub>2</sub> O <sub>3</sub>	SiO <sub>2</sub>	TiO <sub>2</sub>	SiC + C
66 - 70	3 - 7	1.6 – 2.0	21 - 24

**TYPICAL PHYSICAL PROPERTIES (reducing conditions above 250°F)**

Prefired to °F	Modulus of Rupture, psi	Cold Crushing Strength, psi	Linear Change %
250	600 – 800	3,000 – 4,500	Nil
1,500	900 – 1,100	6,500 – 8,000	+0.2
2,000	1,050 – 1,250	7,500 – 9,000	Nil
2,500	1,200 – 1,450	7,500 – 9,000	+0.2

**ABRASION LOSS After 2000°F:** <5 cc  
**ABRASION LOSS After 2500°F:** <5 cc

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

187600 – 1/18/02

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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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