



TECHNICAL DATA SHEET

JET CAST NC 90 SIC is a very pure no cement castable containing an extremely high percentage of silicon carbide. It was developed specifically for the melt zone of high production cupolas. It also contains a very effective oxidation inhibitor.

JET CAST NC 90 SIC was developed to be pumped/shotcreted into place using Reno Refractories Jet Cast Technology..

SERVICE TEMPERATURE: 3200°F
MATERIAL REQUIRED FOR ESTIMATING: 162 lbs/cf
BINDER ADDITION: 11 - 13%

TYPICAL CHEMICAL ANALYSIS (Calcined Basis)

Al ₂ O ₃	SiO ₂	Fe ₂ O ₃	SIC	TiO ₂	CaO
5.0 – 7.5	5.0 – 7.5	<0.08	84 – 88.5	Nil	Nil

TYPICAL PHYSICAL PROPERTIES (*Fired in a reducing atmosphere)

Prefired to °F	Modulus of Rupture, psi	Cold Crushing Strength,psi	Linear Change %
250	1,050	6,400	Nil
1,500*	1,550	6,400	Nil
2,000*	1,350	5,800	+0.1
2,500*	2,000	---	-0.1

ABRASION LOSS After 2000°F: < 9 cc

ABRASION LOSS After 2500°F: < 3 cc

THERMAL CYCLE, ASTM C-1171: Jet Cast NC 90 SIC exhibits an 18% increase in strength after cycling.

PACKAGING: 1500 lb. bulk bags, 2 per pallet (3000 lbs)
3000 lb. bulk bags, 1 per pallet (3000 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.