



TECHNICAL DATA SHEET

JET CAST NC 50 is a high alumina no-cement material with excellent resistance to thermal shock and abrasion. It is designed to be easily installed by casting. High density, low porosity, high hot strength, and quick dry-out are its unique characteristics.

JET CAST NC 50 is recommended for applications in reheat furnace subhearth, tundish back-up linings and covers.

SERVICE TEMPERATURE:	2850°F
MATERIAL REQUIRED FOR ESTIMATING:	150 lbs/cf
STORAGE LIFE:	1 year
BINDER ADDITION:	11 - 12% by weight

TYPICAL CHEMICAL ANALYSIS (includes binder) (Calcined Basis)

Al ₂ O ₃	SiO ₂	Fe ₂ O ₃	TiO ₂
50 – 52	46 – 47	0.7 – 0.9	1.0 – 1.7

TYPICAL PHYSICAL PROPERTIES

Prefired to °F	Modulus of Rupture, psi	Cold Crushing Strength, psi	Linear Change %	“K” Factor Btu/ft ² /hr/in/°F
250	500 – 700	3,000 – 3,750	Nil	500°F – 11.5
1,500	700 – 950	3,400 – 4,150	-0.2	1,000°F – 8.5
2,000	1,050 – 1,200	3,750 – 4,500	-0.4	1,500°F – 6.5
2,500	1,300 – 1,500	5,600 – 6,545	Nil	2,000°F – 6.5
2,850	2,850 – 3,050	7,500 – 8,250	-0.3	

ABRASION LOSS After 2000°F: <7 cc
ABRASION LOSS After 2500°F: <6 cc

APPARENT POROSITY @ 1500°F: 17.26%
2850°F: 12.20%

HOT MOR @ 1500°F: 1,500 – 1,650 psi

PACKAGING: 55 lb. Bags, 72 per Pallet (3960 lbs.)

181000 – 11/11/12

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.