



TECHNICAL DATA SHEET

NC GL90 is a high alumina no cement refractory designed to be installed by shotcreting, pumping or casting. Quick installation, dry-out, high hot strength and refractoriness, high thermal shock resistance and chemical resistance are its unique properties.

Designed for Glass Furnace applications, NC GL90 is recommended for upper walls, superstructure, crowns, off-take ports, skew blocks, tuckstones, burner blocks and sub-flooring. Excellent in oxy-fuel environments.

SERVICE TEMPERATURE:	3200°F
MATERIAL REQUIRED FOR ESTIMATING:	183 lbs./cu. ft.
BINDER ADDITION:	8 - 9%

TYPICAL CHEMICAL ANALYSIS (Calcined Basis)

Al ₂ O ₃	SiO ₂	Fe ₂ O ₃	TiO ₂
92 – 93	6 – 7	0.1	<0.1

TYPICAL PHYSICAL PROPERTIES

Prefired to °F	Modulus of Rupture, psi	Cold Crushing Strength, psi	Linear Change %	Abrasion Loss cc	“K” Factor Btu-in/hr-ft ² °F
250	870 – 1,100	7,200 – 7,550	-0.1	---	19.82
1500	955 – 1,430	6,740 – 9,070	-0.1	<9	19.88
2000	1,650 – 2,150	7,160 – 11,175	-0.3	---	19.90
2500	1,970 – 2,650	10,400 – 15,450	-0.5	<4	19.93

Coefficient of Thermal Expansion: 3.19x10⁻⁶ in/in/°F

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

185622 – 10/6/15

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.