



RENO REFRACTORIES, INC

RENO NC – GLSiil - 99

TECHNICAL DATA SHEET

RENO NC – GLSiil - 99 is a fused silica no-cement castable. The properties are better than silica brick in strength, abrasion resistance, thermal expansion, and thermal shock resistance.

RENO NC – GLSiil - 99 is recommended for glass furnace walls and crowns, original linings as well as for repairing existing linings. For other applications where low thermal expansion and resistance to chemical vapors is required.

SERVICE TEMPERATURE:	2400°F / 1315°C
MATERIAL REQUIRED FOR ESTIMATING:	115 lb./ft ³ / 1840 kg/m ³
BINDER ADDITION:	12 - 14%
STORAGE LIFE:	1 year

TYPICAL CHEMICAL ANALYSIS (Calcined Basis)

SiO₂
99 – 99.5

TYPICAL PHYSICAL PROPERTIES

Prefired to		Modulus of Rupture		Bulk Density		Cold Crushing		Linear Change
°F	°C	psi	MPa	lb./ft ³	kg/m ³	psi	MPa	%
250	121	850 - 950	5.86-6.55	111	1,778	3000-3800	20.7-26.2	0.0
1500	815	950-1,050	6.55-7.23	111	1,778	4000-5000	27.6-34.5	-0.11

THERMAL COEF: 1500°F – 13.13 BTU-in/hr-ft²-°F
2000°F – 13.54 BTU-in/hr-ft²-°F

COEF. THERMAL EXPANSION: 0.8 x 10⁻⁶ in/in 0.44 x 10⁻⁶ cm/cm

PACKAGING: 55 lb. (25 kg) Bags, 72 per Pallet 3,960 lb. (1,800 kg)
550 lb. (250 kg) Bags, 2 per Pallet 1,100 lb. (500 kg)

189422 - 9/16/2015

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.

Reno Refractories, PO Box 201, Morris, Alabama 35116
205.647.0240 | Toll Free 1.800.741.7366