



TECHNICAL DATA SHEET

**RENO NC - FSCO** is a fused silica heat setting (no-cement) casting mix which can be installed by casting, pumping or shotcreting with better properties than silica brick in strength, abrasion resistance, thermal expansion, and thermal shock resistance.

**RENO NC - FSCO** applications include coke ovens, cement kiln pre-heater and ducts and other applications that require superior shock resistance. Works well for repairing existing linings.

<b>SERVICE TEMPERATURE:</b>	2400°F
<b>MATERIAL REQUIRED FOR ESTIMATING:</b>	115 lbs/cf
<b>BINDER ADDITION (cast):</b>	12 - 14%
<b>BINDER ADDITION (pump):</b>	14 - 15%

**TYPICAL CHEMICAL ANALYSIS** (Calcined Basis): 99% SiO<sub>2</sub>

**TYPICAL PHYSICAL PROPERTIES**

	Prefired to °F	Modulus of Rupture, psi	Bulk Density lbs/cf	Linear Change %
<u>Cast</u>				
	250	850 – 950	111	0.0
	1500	900 – 1,050	111	-0.11
<u>Shotcrete</u>				
	250	700 – 750	110	0.0
	1500	500 – 600	110	-0.2

**ABRASION LOSS AFTER 1500°F: 7 – 9 cc**

**COEF. THERMAL EXPANSION:**  $-0.8 \times 10^6$

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

189400 – 3/21/16

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.