



TECHNICAL DATA SHEET

ElectroCast™ Sil 1199 is a fused silica based no cement castable based on Reno’s Electro Chemical bond system.

- Based on Reno’s proprietary Electro Chemical bond system for maximum performance.
• Micro porosity of bond phase prevents the passage of alkali vapors into the castable.
• Low porosity and permeability further reduces penetration and reaction with vapors.
• Recommended for use in applications where the presence of chlorine, sulfur compounds, and alkali vapors are present.
• Excellent Thermal Shock resistance.
• Provides unique physical properties that allow the refractory to excel against dirty fuels.

Service Temperature: 2900°F
Storage Life: 6 months
Electrolyte Type: E11
Addition Quantity: 7-9%

TYPICAL CHEMICAL ANALYSIS (Calcined Basis)

Table with 5 columns: Al2O3, SiO2, Fe2O3, CaO, MgO and their respective values (0.5, 99, 0.1, 0.1, 0.1).

TYPICAL PHYSICAL PROPERTIES

Table with 8 columns: Prefire Temperature, Modulus of Rupture, Cold Crushing Strength, Density, Porosity, Linear Change, Permeability, Thermal k.

Thermal Expansion Coefficient: 0.8E-6 (ASTM C832)
Thermal Cycle Loss (after 2000°F): 10% MOR Loss (ASTM C-1171)\*
Abrasion Loss After 1500°F: 7.1 cc (ASTM C704)
Abrasion Loss After 2500°F: 7.4 cc (ASTM C704)

\*preliminary
18-133 G

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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.

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