



TECHNICAL DATA SHEET

ElectroCast™ Sil 1199 is a fused silica based, no cement castable based on Reno’s Electro-Chemical bond system. This product is designed to be placed by vibration casting.

- Based on Reno’s proprietary Electro-Chemical bond system for maximum performance.
• 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
Electrolyte Type: E11
Addition Quantity: 7-9%
Wt. Required for Estimating: 114 lb/ft³
Storage Life: 6 months

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 9 columns: Prefire Temperature, Modulus of Rupture, Cold Crushing Strength, Density, Porosity, Linear Change, Permeability, Thermal k, Surface Area. Rows show data for temperatures from 250 to 2800°F.

Thermal Expansion Coefficient: 0.8E-6 (ASTM C832)
Thermal Cycle Loss (after 2000°F): 10% MOR Gain (ASTM C-1171)
Hot MOR at 2750°F: 1364 psi (ASTM C583)
Abrasion Loss After 1500°F: 7.1 cc (ASTM C704)
Abrasion Loss After 2500°F: 5.0 cc (ASTM C704)

PACKAGING: 55 lb. Bags, 72 per Pallet (3960 lbs.) 1500 lb. Bags, 2 per Pallet (3000 lbs.) 2000 lb. Bags, 2 per Pallet (4000 lbs.)
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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.