



TECHNICAL DATA SHEET

ElectroCast™ 1125 SiC is a fused alumina, silicon-carbide fortified, no-cement castable designed to be installed by the vibration/cast process.

- Based on Reno’s propriety Electro Chemical bond system featuring an electrolyte for ultimate performance.
• Rapid dry out capability while still retaining very low porosity.
• Excellent material for applications in cement plant cyclones, ducts, coolers, and offtakes.
• Excellent resistance to alkalai vapors, sulfur compounds, and chlorides.
• Excellent refractory for large scale installations.
• Low permeability to reduce vapor penetration into the refractory structure.
• The low porosity and small pore sizes creates dry hot face surfaces which greatly reduce dust buildup in ducts.

Service Temperature: 3000°F
Electrolyte Type: E11
Addition Quantity: 4.2-4.8% (wt.)
Wt. Required for Estimating: 189 lb/ft³
Storage Life: 6 months

TYPICAL CHEMICAL ANALYSIS (Calcined Basis)

Al2O3 67 SiO2 6.5 TiO2 1.2 SiC + C 25

TYPICAL PHYSICAL PROPERTIES *reducing atmosphere

Table with 8 columns: Prefire Temperature (°F), Modulus of Rupture (psi), Cold Crushing Strength (psi), Density (pcf), Porosity (%), Linear Change (%), Permeability (mdarcys), Thermal K (Btu/in/ft²/hr). Rows include temperatures from 250 to 2800°F.

Thermal Expansion Coefficient: 2.88E-6 in/in/°F (ASTM C832)
Thermal Shock Loss (after 2000°F): 57.4% MOR Loss(ASTM C-1171)

Abrasion Loss After 1500°F: 3.2 cc (ASTM C704)
Abrasion Loss After 2500°F: 4.2 cc (ASTM C704)
Abrasion Loss After 2800°F: 1.3 cc (ASTM C704)

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.