



TECHNICAL DATA SHEET

Reno ElectroShot™ 1110 SiC is a high alumina silicon-carbide, no-cement castable designed to be installed using the shotcrete method.

- Based on Reno's propriety Electro Chemical bond system featuring a nano-fluid electrolyte for ultimate performance.
Rapid dry out capability while still retaining very low porosity.
Excellent material for applications in foundries and steel mills with harsh conditions.
Excellent resistance to iron, slag, thermal shock and oxidation.
Recommended for use in blast furnace troughs and skimmer-blocks, cupola wells, troughs, tilting runners and tap-hole blocks.
Excellent refractory for foundry holding and pressure-pour furnaces, receiver and discharge spouts, and ductile treatment ladles.
Excels where corrosion caused by high velocity slag/metal contact occurs.

Service Temperature: 3000°F/1648°C
Liquid Type: E11
Addition Quantity: 4.0% - 4.5%
Wt. Required for Estimating: 184 lbs/ft³
Storage Life: 6 months
Shotcrete Binder: 1.5% Sodium Silicate

TYPICAL CHEMICAL ANALYSIS (% Calcined Basis)

Table with 7 columns: Al2O3, SiC, SiO2, Fe2O3, TiO2, CaO, Alkalies. Values range from 73-77 to 1.

TYPICAL COLD PHYSICAL PROPERTIES

Table with 10 columns: Prefired to °F, Cold Modulus of Rupture (psi), Cold Crushing Strength (psi), Density (pcf), Porosity (%), Linear Change (%), Abrasion Loss (cc), Thermal Shock Loss (%), Permeability (mDarcys), Surface Area (m²/g). Values range from 250 to 2800.

TYPICAL HOT PHYSICAL PROPERTIES

Table with 4 columns: Prefired to °F, Hot Modulus of Rupture (psi), Thermal Conductivity (BTU/ft²/hr/in/°F), Thermal Expansion (%). Values range from 250 to 2800.

Coefficient of Thermal Expansion: 4.21 x 10⁻⁶

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.