



TECHNICAL DATA SHEET

ElectroCast™ 11-808 is a high alumina-silicon carbide no cement castable designed to be installed by vibration casting into forms.

- Based on Reno's proprietary Electro Chemical bond system featuring E11, a nano-fluid electrolyte for ultimate performance.
Rapid dry out capability while still having low porosity.
Micro porosity of bond phase has greatly reduced reactivity to furnace and ladle vapors.
High density, low porosity, high strengths and excellent resistance to metals, alkali, slags, thermal shock, abrasion and oxidation.
Excellent resistance to iron, slag, thermal shock, abrasion and oxidation.
Recommended for use in blast furnace troughs, skimmer-blocks, tilting runners, and torpedo ladles.
Also is an excellent refractory for Cupola wells, troughs, and ladles, holding and pressure-pour furnaces, receiver and discharge spouts, and ductile treatment ladles.

Service Temperature: 3000°F
Electrolyte Type: E11
Addition Quantity: 4.5-5.1% by weight
Wt. required for Estimating: 179 lb/ft³
Storage Life: 6 months

TYPICAL CHEMICAL ANALYSIS (Calcined Basis)

Table with 6 columns: Al2O3, SiO2, TiO2, CaO, SiC. Values: 81, 7-8, 2-3, 0.2, 8

TYPICAL PHYSICAL PROPERTIES * reducing atmosphere

Table with 9 columns: Prefire Temperature (°F), Modulus of Rupture (psi), Cold Crushing Strength (psi), Density (pcf), Porosity (%), Linear Change (%), Permeability (mDarcys), Thermal Conductivity (Btu/ft²/in/hr), Surface Area (m²/g). Rows for temperatures 250, 750, 1000, 1500, 2000, 2500, 2800.

Thermal Expansion Coefficient: 2.84E-6 in/in/°F (ASTM C832)
Thermal Shock Loss (after 2000°F): 23.5% Loss (ASTM C-1171)

Hot MOR at 2500°F: 2364 psi (ASTM C583)
Hot MOR at 2750°F: 859 psi (ASTM C583)

Abrasion Loss After 1500°F: 2.6 cc (ASTM C704)
Abrasion Loss After 2500°F: 1.5 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.)
EBCO 20-004B Revised BP 5/16/2021 pin#193520

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.