



TECHNICAL DATA SHEET

ElectroCast™ SP 392 is a no cement castable containing high alumina-magnesia spinel mineralogy. It offers high refractoriness, hot strength, and excellent resistance to molten metal and alkali.

- Recommended for molten iron and steel contact applications.
• Well suited for use in well blocks, impact pads, furnace runners, and other areas experiencing dynamic molten metal contact.
• Based on Reno's proprietary Electro-Chemical bond system featuring an electrolyte for ultimate performance.
• Low Permeability plus low porosity to restrict reactivity with vapors.
• Micro porosity of bond phase has greatly reduced reactivity to semi-liquid iron oxide.
• High hot strength and Hot Abrasion Resistance.

Service Temperature: 3000°F
Electrolyte Type: E3
Addition Quantity: 3.5-4.2% by wt.
Wt. Required for Estimating: 193 lb/ft³
Storage Life: 6 months

TYPICAL CHEMICAL ANALYSIS (% Calcined Basis)

Table with 4 columns: Al2O3 (90 - 92), SiO2 (<0.1), Fe2O3 (<0.1), MgO (4.0 - 4.5)

TYPICAL PHYSICAL PROPERTIES (Cast Samples)

Table with 8 columns: Prefire Temperature (°F), Modulus of Rupture (psi), Cold Crushing Strength (psi), Density (pcf), Porosity (%), Linear Change (%), Permeability (mdarcy), Thermal k (Btu/in/ft²/hr)

Thermal Expansion Coefficient: 3.63E-6 in/in/°F (ASTM C832)
Thermal Cycle Loss (after 2000°F): 45.7% MOR Loss (ASTM C-1171)

Hot MOR at 2500°F: 1324 psi (ASTM C583)
Hot MOR at 2750°F: 430 psi (ASTM C583)

Abrasion Loss After 2000°F: 7.0 cc (ASTM C704)
Abrasion Loss After 2500°F: 1.8 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.)
19-032 E Revised BP 5/17/2021 pin#192520

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.