



TECHNICAL DATA SHEET

ElectroShot™ Petra 70 is a mullite based, no cement castable designed to be installed by shotcreting.

- Based on Reno’s proprietary Electro Chemical bond system featuring an electrolyte for maximum performance and spherical aggregates for maximized packing.
• Micro porosity of bond phase has greatly reduced reactivity to corrosive vapors in the process.
• High hot strength and abrasion resistance.
• Low porosity and permeability for reduced penetration and reaction with molten metals, slags, and vapors.
• Recommended for molten iron transport vessels such as ladles, spouts, covers, etc. where low to moderate slag is present.

Service Temperature: 3000°F
Storage Life: 6 months
Electrolyte Type: E3
Addition Quantity: 4.0-5.0% (wt.)
Wt. Required for Estimating: 165 pcf
Storage Life: 6 months

TYPICAL CHEMICAL ANALYSIS (% Calcined Basis)

Table with 5 columns: Al2O3 (70), SiO2 (27), Fe2O3 (0.7), TiO2 (2), Other (0.35)

TYPICAL PHYSICAL PROPERTIES

Table with 8 columns: Prefire Temperature (°F), Modulus of Rupture (psi), Cold Crushing Strength (psi), Density (pcf), Porosity (%), Linear Change (%), Thermal k (Btu/in/ft2/hr), Permeability (mDarcy) 0.3 Green

Thermal Expansion Coefficient: 2.68E-6 in/in/°F (ASTM C832)
Thermal Cycle Loss (after 2000°F): 9.4% MOR Loss (ASTM C-1171)

Abrasion Loss After 1500°F: 6.2 cc (ASTM C704)
Abrasion Loss After 2500°F: 3.6 cc (ASTM C704)
Abrasion Loss After 2800°F: 4,7 cc (ASTM C704)

Hot MOR at 2500°F: 2665 psi
Hot MOR at 2750°F: 863 psi

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.