



TECHNICAL DATA SHEET

ElectroPump™ 352 AR is a high alumina silicon-carbide zirconia, no-cement castable designed to be pumpable for pump/cast installations.

- Based on Reno's propriety Electro Chemical bond system which utilizes 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 alkali and abrasive environments.
• The low porosity and dry surfaces greatly reduce dust buildup in the primary end vessels.

Service Temperature: 3000°F
Electrolyte Type: E3
Addition Quantity: 4.0-4.5% (wt.)
Wt. Required for Estimating: 165 lb/ft³
Storage Life: 6 months

TYPICAL CHEMICAL ANALYSIS (Calcined Basis)

Table with 5 columns: Al2O3 (52), SiO2 (32), ZrO2 (6-7), SiC (8-9), Fe2O3 (0.7)

TYPICAL PHYSICAL PROPERTIES

Table with 9 columns: Prefire Temperature (°F), Modulus of Rupture (psi), Cold Crushing Strength (psi), Density (pcf), Porosity (%), Linear Change (%), Permeability (mDarcy), Thermal K (Btu/ft²/in/hr), Surface Area (m²/g)

Thermal Expansion Coefficient: 2.93E-6 in/in/°F (ASTM C832)
Thermal Shock Loss (after 2000°F): 52.9% MOR Loss (ASTM C-1171)

Hot MOR at 1500°F: 1,443 psi (ASTM C583)
Hot MOR at 2500°F: 656 psi (ASTM C583)

Abrasion Loss After 1500°F: 2.4 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.)
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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.