



TECHNICAL DATA SHEET

ElectroCast™ AZS is a fused alumina, no cement castable designed for high alkali zones in the cement plant.

- A special purpose composition for use in abrasive areas in the cyclones and milling units.
• Can be field cast or pumped installations.
• Properties are optimized for a use temperature of range of 1500-2550°F.
• Based on Reno's proprietary Electro Chemical bond system featuring a nano-fluid electrolyte for ultimate performance.
• Low Permeability plus low porosity to restrict penetration of alkali vapors.
• Micro porosity of bond phase has greatly reduced reactivity to corrosive vapors.
• High hot strength and Hot Abrasion Resistance.

Service Temperature: 3000°F
Electrolyte Type: E11
Addition Quantity: 3.4-3.8%
Wt. Required for Estimating: 204 lb/ft³
Storage Life: 6 months

TYPICAL CHEMICAL ANALYSIS (% Calcined Basis)

Table with 9 columns: Al2O3, SiO2, Fe2O3, TiO2, ZrO2, SiC, Na+K2O, Other, MgO. Values range from 0.31 to 63.16.

TYPICAL PHYSICAL PROPERTIES (Cast Samples)

Table with 9 columns: Prefire Temperature (°F), Cold Modulus of Rupture (psi), Cold Crushing Strength (psi), Density (pcf), Porosity (%), Linear Change (%), Permeability (mDarcys), Thermal Conductivity (Btu-in/hr-ft2-F), Surface Area (m²/g). Rows range from 300 to 2800°F.

Thermal Expansion Coefficient: 3.86E-6 in/in/°F (ASTM C832)
Thermal Shock Loss (after 2000°F): 26.1% MOR Loss (ASTM C-1171)

Hot MOR at 2500°F: 1670psi (ASTM C583)

Abrasion Loss After 1500°F: 1.5 cc (ASTM C704)
Abrasion Loss After 2500°F: 1.2 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.