



TECHNICAL DATA SHEET

ElectroCast 310-SiC is a high alumina, Fused Alumina castable with silicon-carbide additives. This product is designed for vibration casting into forms.

- Based on Reno's proprietary Electro Chemical bond system featuring an electrolyte for maximum performance.
A premium product with excellent resistance to molten iron and slag, thermal shock and oxidation.
Recommended for use in blast furnace troughs, skimmer-blocks, cupola wells, cupola skimmer blocks, troughs, and tap-hole blocks.
Excellent refractory for holding and pressure-pour furnaces, receiver and discharge spouts, and ductile treatment ladles.
The lining forms a non-wetting surface that prevents slag buildup.

Service Temperature: 3000°F
Storage Life: 6 months
Wt. Required for Estimating: 193 lb/cu.ft.
Electrolyte Type: E3
Addition Quantity: 3.75 - 4.25 % by weight

TYPICAL CHEMICAL ANALYSIS (Calcined Basis)

Table with 4 columns: Al2O3, SiO2, TiO2, SiC + C. Values: 80, 8, 1.7, 10

TYPICAL PHYSICAL PROPERTIES

Table with 8 columns: Prefire Temperature, Modulus of Rupture, Cold Crushing Strength, Density, Porosity, Linear Change, Permeability, Thermal k. Rows for temperatures 250, 750, 1500, 2000, 2500*, 2800*.

* reducing atmosphere

Thermal Expansion Coefficient: 3.11E-6in/in/°F (ASTM C832)
Thermal Shock Loss (after 2000F): 24.4% MOR loss (ASTM C-1171)

Hot MOR @ 2500°F: 3130 psi (ASTM C583 - Orton)
Hot MOR @ 2750°F: 543 psi (ASTM C583 - Orton)

ABRASION LOSS After 1500°F: 4.4 cc
ABRASION LOSS After 2500°F*: 6.8 cc
ABRASION LOSS After 2800°F*: 4.5 cc

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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.