



TECHNICAL DATA SHEET

Reno FireCast 905 is a high alumina, no-cement castable, fortified with silicon carbide. This is designed to be installed by vibration casting.

- Based on Reno's new propriety FireCast bond system with a very easy to use character.
• Water based, easy mixing, easy dry out, consistent wear patterns.
• Rapid dry out capability while still retaining reduced porosity and high strengths.
• Excellent material for applications in vertical channel and auto-pour iron furnaces, cupola iron runner troughs, past the slag dam, de-sulf, treatment, and ductile iron transfer ladles.
• Excellent resistance to iron, slag, thermal shock, and oxidation.

Service Temperature: 3000°F / 1649°C Wt. Required for Estimating: 187 lbs./ft³
Liquid Type: Water Storage Life: 6 months
Addition Quantity: 4.8% - 5.2%

TYPICAL CHEMICAL ANALYSIS (% Calcined Basis)

Table with 8 columns: Al2O3, SiO2, SiC, Fe2O3, TiO2, MgO, CaO, Alkalies. Values range from 80.5 to < 1.1.

TYPICAL COLD PHYSICAL PROPERTIES

Table with 8 columns: Prefired to °F, Cold Modulus of Rupture (psi), Cold Crushing Strength (psi), Density (pcf), Porosity (%), Linear Change (%), Abrasion Loss (cc), Thermal Shock Loss (%). Values range from Green to 2800.

TYPICAL HOT PHYSICAL PROPERTIES

Table with 4 columns: Prefired to °F, HMOR (psi), Thermal Conductivity (BTU/ft²/hr./in/°F), Thermal Expansion (%). Values range from 250 to 2750.

Coefficient of Thermal Expansion: 3.11 E-6 in/in/°F

Standard Cure Out Schedule: Schedule D

Packaging: 72 / 55 lb. bags per pallet or 2/2000# Bulk Bags

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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.