



TECHNICAL DATA SHEET

RENO CAST SF 60 SIC is a fine-grained, silicon carbide, self flowing castable. This mix was designed to be poured behind silicon carbide tiles that are used in incinerators, boilers and in petrochemical units. Very high strengths and thermal shock resistance are attributes of this material.

SERVICE TEMPERATURE: 3000°F
MATERIAL REQUIRED FOR ESTIMATING: 154 lbs./cu. ft.
CASTING WATER: 7.0 - 8.0%

TYPICAL CHEMICAL ANALYSIS (Reducing Conditions)

Table with 8 columns: Al2O3, SiO2, Fe2O3, TiO2, CaO, SiC, Alkalies, Other. Values range from 0.1 to 21.

TYPICAL PHYSICAL PROPERTIES (Reducing Conditions above 250°F.)

Table with 4 columns: Prefired to °F, Modulus of Rupture, psi, Cold Crushing Strength, psi, Linear Change %. Values range from 250 to 2500 °F and 9,300 to 15,600 psi.

Abrasion Loss after 1500°F: 3.5 cc
Abrasion Loss after 2500°F: 4.0 cc

Thermal Shock Loss, 2000°F: 10%

Thermal Conductivity (BTU-in/hr-ft2-°F): 37.6 @ 1000°F (mean temp.)
36.6 @ 1500°F

PACKAGING: 55 lb. Bags, 72 per Pallet (3,960 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.