PHYSICAL PROPERTIES

Maximum Service Temperature 2700°F
ASTM C-401 Class D
Lbs. Required Dry Mix per Cu. Ft. 150 lbs.
% Water by Weight Required for Casting Approx. 5.8%
Bulk Density After Drying at 230°F 155 lbs./cu.ft.

Modulus of Rupture

After Drying at 230°F 1300 – 1800 psi
Hot MOR at 1500°F 2800 – 3500 psi
Hot MOR at 2550°F 600 – 1000 psi

Permanent Linear Change

After Drying at 230°F Negligible
After Heating to 1500°F -0.0 to -0.3%
After Heating to 2550°F +0.2 to +1.0%

Cold Crushing Strength

After Drying at 230°F 5000 – 7000 psi
After Firing to 1500°F 8000 – 14000 psi

Abrasion Loss

After 1500°F 5 – 8 cc

CHEMICAL ANALYSIS

Silicon Carbide [SiC] 60.3%
Silica [SiO₂] 20.1%
Alumina [Al₂O₃] 17.2%
Iron Oxide [Fe₂O₃] 0.2%
Lime [CaO] 1.9%

THERMAL CONDUCTIVITY BTU/SQ.FT./HR./°F/IN.

At 500°F 38.5
At 1000°F 35.4
At 1500°F 37.4

NOTE: All data subject to reasonable deviation and should not be used for specification purposes.