## PHYSICAL PROPERTIES

- **Maximum Service Temperature**: 2700°F
- **ASTM C-401**: Class D
- **Lbs. Required Dry Mix per Cu. Ft.**: 152 lbs.
- **% Water by Weight Required for Casting**: Approx. 6%
- **Bulk Density After Drying at 230°F**: 155 lbs./cu.ft.
- **Modulus of Rupture**
  - After Drying at 230°F: 1500 - 2000 psi
  - After Firing at 1500°F: 8000 - 10000 psi
  - After Firing at 2550°F: +0.3 to +0.7%
- **Cold Crushing Strength**
  - After Drying at 230°F: 5000 - 7000 psi
  - After Firing to 1500°F: 8000 - 10000 psi
- **Abrasion Loss**
  - After 1500°F: 5 - 8 cc

## CHEMICAL ANALYSIS

<table>
<thead>
<tr>
<th>Component</th>
<th>Percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td>Silicon Carbide [SiC]</td>
<td>51.5%</td>
</tr>
<tr>
<td>Silica [SiO₂]</td>
<td>22.7%</td>
</tr>
<tr>
<td>Alumina [Al₂O₃]</td>
<td>23.6%</td>
</tr>
<tr>
<td>Iron Oxide [Fe₂O₃]</td>
<td>0.3%</td>
</tr>
<tr>
<td>Lime [CaO]</td>
<td>1.9%</td>
</tr>
</tbody>
</table>

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

- **At 500°F**: 33.3
- **At 1000°F**: 30.7
- **At 1500°F**: 32.7

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