## PHYSICAL PROPERTIES

- **Maximum Service Temperature**: 2400°F
- **ASTM C-401**: Class B
- **Lbs. Required Dry Mix Per Cu. Ft.**: 128 lbs.
- **% Water by Weight Required for Casting**: Approx. 12%
- **Bulk Density After Drying at 230°F**: 137 lbs./cu.ft.
- **Cold Crushing Strength After Drying at 230°F**: 6000 - 10000 psi
- **MOR After Drying at 230°F**: 1050 - 1500 psi

### Permanent Linear Change
- **After Drying at 230°F**: Negligible
- **After Heating to 1500°F**: Negligible
- **After Heating to 2300°F**: 0.0 to -0.8%

## CHEMICAL ANALYSIS

<table>
<thead>
<tr>
<th>Component</th>
<th>Formula</th>
<th>%</th>
</tr>
</thead>
<tbody>
<tr>
<td>Silica</td>
<td>$\text{SiO}_2$</td>
<td>41.8%</td>
</tr>
<tr>
<td>Alumina</td>
<td>$\text{Al}_2\text{O}_3$</td>
<td>39.2%</td>
</tr>
<tr>
<td>Iron Oxide</td>
<td>$\text{Fe}_2\text{O}_3$</td>
<td>4.0%</td>
</tr>
<tr>
<td>Lime</td>
<td>$\text{CaO}$</td>
<td>11.4%</td>
</tr>
</tbody>
</table>

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

- **At 500°F**: 5.8
- **At 1000°F**: 6.1
- **At 1500°F**: 6.4

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