Note: It is not likely to be able to manufacture it according to the product shape and the application.

**Properties**

<table>
<thead>
<tr>
<th></th>
<th>Density (x10^3 kg/m³)</th>
<th>Fracture Toughness (Mpa/mm)</th>
<th>4 point Bending Strength (MPa)</th>
<th>Young’s Modulus (GPa)</th>
<th>Hardness (Hv)</th>
<th>Thermal Expansion Coefficient (x10^-6/K)</th>
<th>Thermal Conductivity (W/m·K)</th>
<th>Thermal Shock Resistance (K)</th>
<th>Volume Resistivity (Ohm·m)</th>
<th>Permittivity (1MHz)</th>
</tr>
</thead>
<tbody>
<tr>
<td>SIALON</td>
<td>3.2</td>
<td>7.5</td>
<td>880</td>
<td>290</td>
<td>15.5</td>
<td>3.0</td>
<td>17</td>
<td>710</td>
<td>10^11</td>
<td>8.7</td>
</tr>
<tr>
<td>Super SIALON</td>
<td>3.2</td>
<td>7.7</td>
<td>1,050</td>
<td>300</td>
<td>15</td>
<td>3.0</td>
<td>65</td>
<td>1,000</td>
<td>10^13</td>
<td>7.2</td>
</tr>
</tbody>
</table>

Note: The characteristic values of the table inside are not a guarantee value in the product.

**Thermal Shock Test**

ΔT=800K (Rapid water-quench test)
Size: φ 60 × 20mm

**Wear Test in molten Aluminum**

**Condition**

- Specimen: 100 rpm
- Molten Aluminum: 1003K (730℃), 96Hr

**Appearances**

- SIALON
- Cast Iron

**Size**

<table>
<thead>
<tr>
<th>Outer Diameter</th>
<th>Length</th>
</tr>
</thead>
<tbody>
<tr>
<td>Max φ750mm</td>
<td>Max 2,200mm</td>
</tr>
</tbody>
</table>

Note: It is not likely to be able to manufacture it according to the product shape and the application.
1) Excellent wear resistance to molten Zn/Al
2) High corrosion resistance to molten Zn/Al
3) Low friction resistance
4) Excellent acid resistance
5) Reduction in strip marking
6) Light weight

The data in this report do not constitute any kind of warranty or guarantee.