## CVD-SiC (Silicon Carbide)

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Density (g/cc) (% theoretical)</td>
<td>3.2</td>
</tr>
<tr>
<td>Porosity</td>
<td>Nil</td>
</tr>
<tr>
<td>Grain size (microns)</td>
<td>5-10</td>
</tr>
<tr>
<td>Flexural Strength (MPa) @ RT</td>
<td>450</td>
</tr>
<tr>
<td>Young’s Modulus (GPa)</td>
<td>466</td>
</tr>
<tr>
<td>Poisson’s Ratio</td>
<td>0.21</td>
</tr>
<tr>
<td>Hardness HV (0.3) kg/mm squared</td>
<td>2850</td>
</tr>
<tr>
<td>Fracture toughness (Mpa m1/2)</td>
<td>3.39</td>
</tr>
<tr>
<td>Electrical resistivity (OHM-cm)</td>
<td>&lt;1.5 to &gt;1000</td>
</tr>
<tr>
<td>Thermal conductivity (W/m-°K) @ 25C</td>
<td>205-250</td>
</tr>
<tr>
<td>CTE (x10-6/°C)</td>
<td>3.5</td>
</tr>
<tr>
<td>Heat capacity (J/kg-°K)</td>
<td>640</td>
</tr>
</tbody>
</table>

Total impurities: < 5 ppm

The information contained in this document is believed to be accurate and reliable, but is presented without guarantee or warranty on the part of Advanced Ceramic Products LLC.