C.B.P. offers two types of Silicon Carbide products:
- **Nitride Bonded Silicon Carbide (NBSiC)**
- **Fine Grain Reaction Bonded Silicon Carbide (RBSN)**

Silicon Carbide is cast into complex shapes that withstand extreme temperatures, and thermal shock. Silicon Carbide parts exhibit excellent abrasion resistance in fine particle, high velocity applications.

The benefits of silicon carbide parts include:
- Casting allows for complex shape production
- Abrasion, temperature, and thermal shock resistant
- Operating temperature higher than most wear resistant ceramics

NBSiC is generally used in moderate to high wear areas.

RBSN is used in extreme temperature very high wear areas.

C.B.P. Engineering supplies replacement liners for all O.E.M. cyclones and burners.
Applications for Silicon Carbide

- P.F. Burners
- Cyclone parts
- Exhauster bullnoses
- Wet & dry spray nozzles
- Monolithic pipe linings
- Duct liners

PHYSICAL PROPERTY DATA

<table>
<thead>
<tr>
<th>Property</th>
<th>Nitride Bonded Silicon Carbide (NBSiC)</th>
<th>Reaction Bonded Silicon Carbide (RBSN)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bulk Density (g/cc)</td>
<td>2.64</td>
<td>3.0</td>
</tr>
<tr>
<td>Porosity (%)</td>
<td>10.7 %</td>
<td>0 %</td>
</tr>
<tr>
<td>Thermal Expansion (x10^7 in/in/°C)</td>
<td>44</td>
<td>45</td>
</tr>
<tr>
<td>Max. Temperature</td>
<td>2800 °F</td>
<td>2700 °F</td>
</tr>
</tbody>
</table>

Delivering Solutions

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