Momentive Performance Materials produces over 70 standard and custom grades of BN powders to meet a wide range of application requirements, and has over 50 years of expertise in the synthesis and refinement of boron nitride powders.

**Potential Applications**

These grades may be considered for use in a broad range of demanding applications, including release agents for high temperature metal and glass processing. Additionally, these grades may be considered for use as additives in solid lubrication applications, and as base materials for hot-pressed solids and composites and refractory coatings.

**Key Features & Typical Benefits**

- Thermal Conductor
- Electrical Insulator
- Low Dielectric Constant/Loss
- High Temperature Stability
- Lubricious
- Inert and Chemically Stable
- Non-Wetting

Momentive Performance Materials' boron nitride (BN) powders grades AC6004 and AC6069 are generally single-crystal hexagonal platelets with very high purity. The mean particle sizes for these ultra-fine powders are in the range of 6 to 13 μm, and they are >99.9% -325 mesh.

**AC6004**

AC6004 has a low coefficient of friction, making it an outstanding lubricant. It possesses a slightly larger particle size (12-13 μm), a lower surface area, and a tighter particle size distribution than HCP.

**AC6069**

AC6069 is commonly used as a release agent and lubricant for high-temperature glass making and metal forming processes. Additionally, its small size and good dispersion properties make it a good nucleation additive to consider for plastics foaming or solidification.

### Typical Physical Properties

<table>
<thead>
<tr>
<th></th>
<th>AC6004</th>
<th>AC6069</th>
</tr>
</thead>
<tbody>
<tr>
<td>Crystal (Type)</td>
<td>Hexagonal (Graphitic)</td>
<td>Hexagonal (Graphitic)</td>
</tr>
<tr>
<td>Color</td>
<td>White</td>
<td>White</td>
</tr>
<tr>
<td>Mean Particle Size μm</td>
<td>12-13</td>
<td>9</td>
</tr>
<tr>
<td>Crystal Size μm</td>
<td>&gt;10</td>
<td>6</td>
</tr>
<tr>
<td>Surface Area m²/g</td>
<td>2</td>
<td>8</td>
</tr>
<tr>
<td>Tap Density g/cm³</td>
<td>0.45</td>
<td>0.25</td>
</tr>
<tr>
<td>Oxygen %</td>
<td>0.3</td>
<td>0.4</td>
</tr>
<tr>
<td>Soluble Borates %</td>
<td>0.15</td>
<td>0.2</td>
</tr>
<tr>
<td>Carbon %</td>
<td>0.02</td>
<td>0.1</td>
</tr>
</tbody>
</table>

Typical trace element content (ppm, per element):

<table>
<thead>
<tr>
<th>Element</th>
<th>AC6004</th>
<th>AC6069</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ca, Si</td>
<td>&lt;500</td>
<td></td>
</tr>
<tr>
<td>Cu, Al, Mg, Fe, K</td>
<td>&lt;100</td>
<td></td>
</tr>
<tr>
<td>Cl, S</td>
<td>&lt;50</td>
<td></td>
</tr>
<tr>
<td>Na</td>
<td>&lt;20</td>
<td></td>
</tr>
<tr>
<td>Other Metals</td>
<td>&lt;10</td>
<td></td>
</tr>
</tbody>
</table>

1 Typical data are average and actual results may vary. Typical data shall not be used as product specifications.
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- NCEC
- NCEC
- NCEC
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