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 BN powders.

**Potential Applications**

Momentive Performance Materials PolarTherm boron nitride (BN) powder grades PT131, and PT132 can offer an economical way to achieve the benefits of PolarTherm technology. These powders are excellent candidates to consider for substitution for aluminum nitride, alumina, and fused silica in applications where improved heat transfer properties are needed. PT131, and PT132 are fine hexagonal crystalline powders (>95% -325 mesh).

Momentive PolarTherm BN powders’ combination of thermal, electrical, and mechanical properties make them ideal candidates to consider for use in a range of thermal management materials, including:

- Gap fillers and underfills
- Potting and molding compounds
- Silicone and other compliant pads
- Liquid encapsulants
- Compounded thermoplastics
- Printed circuit board pre-pregs and laminates
- Thermal interface greases, gels and adhesives

**Key Features & Typical Benefits**

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

<table>
<thead>
<tr>
<th>Typical Physical Properties</th>
<th>PT131</th>
<th>PT132</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>10</td>
<td>5</td>
</tr>
<tr>
<td>Crystal Size μm</td>
<td>0.4</td>
<td>0.4</td>
</tr>
<tr>
<td>Surface Area m²/g</td>
<td>14</td>
<td>15</td>
</tr>
<tr>
<td>Tap Density g/cm³</td>
<td>0.4</td>
<td>0.3</td>
</tr>
<tr>
<td>Oxygen %</td>
<td>0.8-1.3</td>
<td>0.8-1.3</td>
</tr>
<tr>
<td>Soluble Borates %</td>
<td>0.1</td>
<td>0.1</td>
</tr>
<tr>
<td>Carbon %</td>
<td>0.1</td>
<td>0.1</td>
</tr>
<tr>
<td>Calcium %</td>
<td>&lt;0.01</td>
<td>&lt;0.01</td>
</tr>
</tbody>
</table>

* Typical data are average and actual results may vary. Typical data shall not be used as product specifications.
Customer Service Centers

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PRODUCT SAFETY, HANDLING AND STORAGE: Customers considering the use of this product should review the latest Material Safety Data Sheet and label for product safety information, handling instructions, personal protective equipment if necessary, and any special storage conditions required. Material Safety Data Sheets are available at www.momentive.com or, upon request, from any Momentive Performance Materials representative. Use of other materials in conjunction with Momentive Performance Materials products (for example, primers) may require additional precautions. Please review and follow the safety information provided by the manufacturer of such other materials.

LIMITATIONS: Customers must evaluate Momentive Performance Materials products and make their own determination as to fitness of use in their particular applications.

EMERGENCY SERVICE:

Momentive Performance Materials maintains an around-the-clock emergency service for its products.

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For Health related calls, contact Momentive Performance Materials at +1.518.233.2500 (English only).

DO NOT WAIT. Phone if in doubt. You will be referred to a specialist for advice.

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