Momentive Performance Materials produces over 80 standard and custom grades of boron nitride (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.

Momentive’s CF500 Boron Nitride powder is a highly crystalline, high purity single crystal grade and is flexible enough to fulfill a wide range of advanced material applications. Its mean particle size is 12 μm, which makes this grade an excellent candidate to consider for thin film applications.

Momentive’s CF600 Boron Nitride powder is a highly crystalline, high purity mix of platelets and agglomerates with particles less than 250 μm. The mixture can improve flow compared to platelets in plastic extrusion and filled silicones. CF600’s agglomerates can also improve through plane thermal conductivity over platelet grades, assuming agglomerates are maintained during processing.

**Potential Applications**

CoolFlow BN powder grades can be considered for use as fillers to enhance thermal conductivity while providing electrical isolation. Potential end-use applications include:
- LED lighting fixtures
- Consumer electronic devices
- Aerospace, automotive cooling systems
- Motor and battery housings
- Temperature sensors
- Heat exchangers

**Key Features & Typical Benefits**
- Thermally conductive
- Electrically insulating
- Lubricious
- Low density
- Non-wetting
- High temperature stability
- Chemically stable

**Typical Physical Properties**

<table>
<thead>
<tr>
<th>Structure</th>
<th>CF500</th>
<th>CF600</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mean Particle Size (μm)</td>
<td>12</td>
<td>16</td>
</tr>
<tr>
<td>D10/D90 (μm)</td>
<td>5/20</td>
<td>6/55</td>
</tr>
<tr>
<td>Surface Area (m²/g)</td>
<td>7.0</td>
<td>8.0</td>
</tr>
<tr>
<td>Tap Density (g/cm³)</td>
<td>0.3</td>
<td>0.47</td>
</tr>
<tr>
<td>Oxygen (wt.%)</td>
<td>0.5</td>
<td>0.4</td>
</tr>
<tr>
<td>Carbon (wt.%)</td>
<td>0.06</td>
<td>0.04</td>
</tr>
<tr>
<td>Soluble Borates (wt.%)</td>
<td>0.2</td>
<td>0.15</td>
</tr>
</tbody>
</table>

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

North America

T +1 440 878 5700
F +1 440 878 5928

cs-na.ceramics@momentive.com

Europe

T +49 4152 9380
F +49 4152 938 136

cs-eur.ceramics@momentive.com

Pacific

T +81 3 5114 3769
F +81 3 5114 3777

cs-asia.ceramics@momentive.com

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PRODUCT SAFETY, HANDLING AND STORAGE: Customers should review the latest Material Safety Data Sheet (MSDS) and label for product safety information, safe handling instructions, personal protective equipment if necessary, and any special storage conditions required for safety. MSDS are available at www.momentive.com or, upon request, from any Momentive Performance Materials (MPM) representative. For product storage and handling procedures to maintain the product quality within our stated specifications, please review Certificates of Analysis, which are available in the Order Center. Use of other materials in conjunction with MPM 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.

LOCATION
Mainland U.S., Puerto Rico
Alaska, Hawaii
Canada,
Europe, Israel
Middle East
Asia/Pacific (except China)
China
Latin America (except Brazil)
Brazil
All other locations worldwide
At sea

EMERGENCY SERVICE PROVIDER
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CHEMTREC
CHEMTREC
NCEC
NCEC
NCEC
NCEC
SOS Cotec
Radio U.S. Coast Guard in US waters
NCEC in International waters

EMERGENCY CONTACT NUMBER
1.800.424.9300
1.800.424.9300
1.800.424.9300
+44(0) 1235293670
+44(0) 1235293677
+44(0) 1235293670
+86.10.5100.3039
+44(0) 1235293670
08000111767 or 08007071767
+44(0) 1235293670
+44(0) 1235293670

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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