BORON NITRIDE (BN) GRADE F 15

Chemical Formula  
BN

Chemical Name  
Boron Nitride

Description of Product  
White Powder / Hexagonal

HS Number  
28500020

Grades Available  
Product Designation
Boron Nitride (BN Grade F 15)

Chemical Characteristics
(Mass fraction in % [cg/g]; ppm [µg/g])

Grade F 15

<table>
<thead>
<tr>
<th>Element</th>
<th>Mass Fraction</th>
</tr>
</thead>
<tbody>
<tr>
<td>B</td>
<td>42.5 - 43.5 %</td>
</tr>
<tr>
<td>O</td>
<td>max. 1.0 %</td>
</tr>
<tr>
<td>B₂O₃ (watersoluble)</td>
<td>max. 0.3 %</td>
</tr>
<tr>
<td>H₂O</td>
<td>max. 0.15 %</td>
</tr>
<tr>
<td>C</td>
<td>max. 0.10 %</td>
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</tbody>
</table>

Crystallographic Phase  
Hexagonal

Structure  
High degree of crystallization.

Physical Characteristics

<table>
<thead>
<tr>
<th>Characteristic</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Specific Surface Area¹</td>
<td>10 - 20 m²/g</td>
</tr>
<tr>
<td>Tap Density²</td>
<td>0.20 - 0.50 g/cm³</td>
</tr>
</tbody>
</table>

1) TriStar by BET per ASTM D 3663, 2) TAP-PAK VOLUMETER per ASTM B 527 (25 ml grad. Cylinder).
SEM picture 3) BN Grade F 15

Packaging
BN Grade F 15
Packaging according to transport regulations.
20 kg in a specially coated 120 l fibre drum with a polyethylene bag.
Packaging unit: 100 kg in 5 drums on CP 3 pallet.

Storage and Handling
Storage and handling are subject to the rules and regulations in the country of use. A Material Data Sheet is supplied when a contract is concluded and in any case of amendments. Store in a closed container.

Hazards identification in Advertising (REGULATION (EC) No 1272/2008 Article 48)
None.

Documentation
An inspection document in accordance with EN 10204 is supplied with every shipment.

Höganäs Germany GmbH
Im Schleeke 78-91  Säckinger Straße 51
38642 Goslar/Germany  79725 Laufenburg/Germany

Phone +49 5321 751-53753
https://www.hoganas.com/en/contact/

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3) Secondary Electron Image (SEI).