**BORON NITRIDE (BN) GRADE A 01 GRADE B 50**

**Chemical Formula**  
BN

**Chemical Name**  
Boron Nitride

**Description of Product**  
White Powders / Hexagonal

**HS Number**  
28500030

**Grades Available**  
Product Designation  
Boron Nitride (BN Grade A 01)  
Boron Nitride (BN Grade B 50)

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### Chemical Characteristics

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

<table>
<thead>
<tr>
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<th>Grade A 01</th>
<th>Grade B 50</th>
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</thead>
<tbody>
<tr>
<td>B</td>
<td>42.5 - 43.5 %</td>
<td>41.5 - 43.5 %</td>
</tr>
<tr>
<td>O</td>
<td>max. 1.2 %</td>
<td>max. 6.0 %</td>
</tr>
<tr>
<td>B₂O₃(watersoluble)</td>
<td>max. 0.15 %</td>
<td>max. 3.00 %</td>
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<tr>
<td>H₂O</td>
<td>max. 0.15 %</td>
<td>max. 0.70 %</td>
</tr>
<tr>
<td>C</td>
<td>max. 0.10 %</td>
<td>max. 0.20 %</td>
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**Crystallographic Phases**  
Hexagonal  
Hexagonal

**Structure**  
High degree of crystallization.  
High degree of crystallization.

**Physical Characteristics**

<table>
<thead>
<tr>
<th></th>
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<th>Grade B 50</th>
</tr>
</thead>
<tbody>
<tr>
<td>Specific Surface Area¹)</td>
<td>3.5 - 7.0 m²/g</td>
<td>3.5 - 6.0 m²/g</td>
</tr>
<tr>
<td>Tap Density²)</td>
<td>0.20 - 0.50 g/cm³</td>
<td>0.30 - 0.50 g/cm³</td>
</tr>
</tbody>
</table>

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¹) TriStar by BET per ASTM D 3663, ²) ASTM B 527 (25 ml grad. Cylinder).
3) Secondary Electron Image (SEI).

SEM picture 3)
BN Grade A 01

SEM picture 3)
BN Grade B 50
Packaging

BN Grade A 01 and BN Grade B 50
Packaging according to transport regulations.
25 kg in a specially coated 120 l fibre drum with a polyethylene bag.
Packaging unit: 125 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.