POWERS FOR SPECIAL APPLICATION

CRystalline Boron
GRADE K1, GRADE K2, GRADE KT1, GRADE P1

Chemical Formula  B
Chemical Name  Crystalline Boron
Description of Product  Rhombohedral crystallographic phase
HS Number  2804501

Grades Available
Product Designation
Crystalline Boron Grade K1
Crystalline Boron Grade K2
Crystalline Boron Grade KT1
Crystalline Boron Grade P1

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

<table>
<thead>
<tr>
<th></th>
<th>Grade K1</th>
<th>Grade K2</th>
<th>Grade KT1</th>
<th>Grade P1</th>
</tr>
</thead>
<tbody>
<tr>
<td>B</td>
<td>min.</td>
<td>99.4 %</td>
<td>99.4 %</td>
<td>98.0 %</td>
</tr>
<tr>
<td>C</td>
<td>max.</td>
<td>0.3 %</td>
<td>0.3 %</td>
<td>0.75 %</td>
</tr>
<tr>
<td>N</td>
<td>max.</td>
<td>0.05 %</td>
<td>0.05 %</td>
<td>0.1 %</td>
</tr>
<tr>
<td>O</td>
<td>max.</td>
<td>0.1 %</td>
<td>0.1 %</td>
<td>0.2 %</td>
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<tr>
<td>Al</td>
<td>max.</td>
<td>0.1 %</td>
<td>0.1 %</td>
<td>0.1 %</td>
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<tr>
<td>Fe</td>
<td>max.</td>
<td>0.1 %</td>
<td>0.1 %</td>
<td>0.2 %</td>
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<tr>
<td>Mn</td>
<td>max.</td>
<td>0.1 %</td>
<td>0.1 %</td>
<td>0.1 %</td>
</tr>
<tr>
<td>Si</td>
<td>max.</td>
<td>0.2 %</td>
<td>0.2 %</td>
<td>0.2 %</td>
</tr>
</tbody>
</table>

Physical Characteristics
Nominal Particle Size\(^1\)  1 - 20 mm  3 - 8 mm  1 - 20 mm
Particle Size Distribution\(^1\)
< 38 µm  min.  95%
Specific Surface Area\(^2\)  0.6 - 2.0 m²/g
Apparent Density\(^3\)  8 - 12 g/inch³

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1) ALPINE Air Jet Screening, 2) Tri Star 3000 3-point, by BET per ASTM D 3663,
3) SCOTT-VOLUMETER per ASTM B 329, e) This product is under export control, x) Material is screened to meet the
nominal particle size range. Due to their irregular shape, particles with smaller or larger diameter are embodied. This
natural material characteristic is excluded as a subject of rejection.

1/3
Photomicrograph
scale see photograph,
Crystalline Boron Grade K1

SEM Photomicrograph
scale see photograph,
Crystalline Boron Grade P1

Packaging

**Standard for large quantities:**
50 kg steel drums (60 l) with polyethylene inlet.
8 drums on one pallet CP1
(1000x1200 mm) = 1 Packaging unit of 400 kg.

**Standard for small quantities:**
2.5 kg polyethylene bottles (2.5 l).
6 bottles in one carton
(300 x 400 mm) = 1 packaging unit of 15 kg.
Other packaging / quantity on request.

**Lot Size**
Höganäs crystalline Boron is available in homogeneous
lots up to:  
- Grade K1, K2, KT1 200 kg
- Grade P1 500 kg
### Storage and Handling

Storage and handling are subject to the rules and regulations in the country of use. Store in a closed container.

### Hazards identification in Advertising (REGULATION (EC) No 1272/2008)

None.

### Documentation

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