

## AMORPHOUS BORON GRADE I, GRADE II, GRADE III

<b>Chemical Formula</b>	B
<b>Chemical Name</b>	Amorphous Boron
<b>HS Number</b>	28045010
<b>Grades Available</b>	<b>Product Designation<sup>e)</sup></b> Amorphous Boron Grade I Amorphous Boron Grade II Amorphous Boron Grade III

### Chemical Characteristics

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

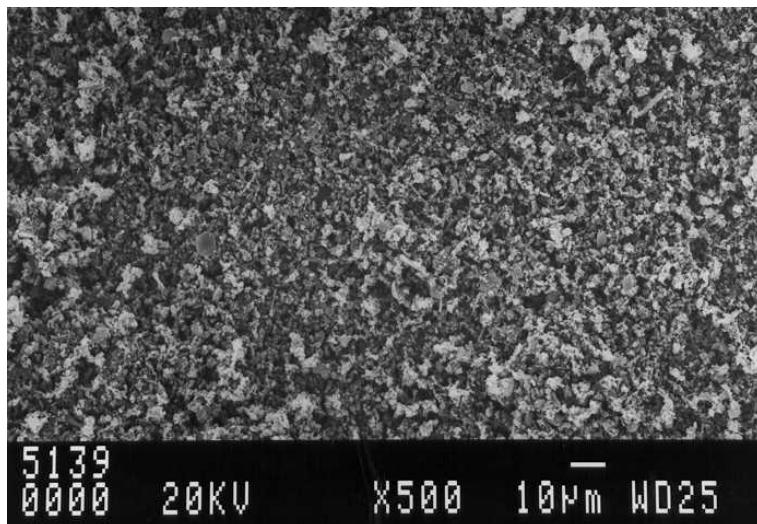
	Grade I	Grade II	Grade III
B	min. 95.0 %	90.0 %	86.0 %
B H <sub>2</sub> O soluble	max. 0.2 %	0.5 %	0.3 %
H <sub>2</sub> O <sub>2</sub> insoluble	max. 1.0 %	1.0 %	1.0 %
moisture	max. 0.5 %	0.5 %	0.5 %
O	max. 2.2 %	4.5 %	1.5 %
N	max. 0.4 %	0.3 %	0.3 %
Mg	max. 0.8 %	6.0 %	12.0 %

### Physical Characteristics

Average Particle Size	max. 1.0 µm	0.8 µm	1.4 µm
Specific Surface Area <sup>1)</sup>	min. 10.0 m <sup>2</sup> /g	18.0 m <sup>2</sup> /g	5.0 m <sup>2</sup> /g

1) Tri Star 3000 3-point by BET per ASTM D 3663, e) These products are under export control.

SEM Photomicrograph  
scale see photograph,  
Amorphous Boron Grade I



## Packaging

**Grade I and III:** 20 kg steel drums with polyethylene inlet (60l).  
8 drums on one pallet CP 1 (1000 x 1200 mm) = 1 packaging unit  
of 160 kg.

**Grade II:** 15 kg steel drums with polyethylene inlet (60l).  
8 drums on one pallet CP 1 (1000 x 1200 mm) = 1 packaging unit  
of 120 kg.

Other packaging/quantity on request.

### Lot Size

Höganäs amorphous boron powders are available in homogeneous  
lots up to 600 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)**

Amorphous Boron Grade I

None.

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

Amorphous Boron Grade II

Amorphous Boron Grade III

Reproductive toxicity Category 1B - (H360)

Signal word  
Danger



Hazard statements H360FD - May damage fertility.  
May damage the unborn child.

## **Documentation**

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

## **Höganäs Germany GmbH**

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