

POWDERS FOR SPECIAL APPLICATION

Number Issue

PD-4003 4-31.03.2010

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^{e)}

Chemical Characteristics

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

	min.	Grade K1		Grade K2		Grade KT1		Grade P1	
В		99.4	%	99.4	%	98.0	%	98.0	%
С	max.	0.3	%	0.3	%	0.75	%	0.75	%
N	max.	0.05	%	0.05	%	0.1	%	0.1	%
0	max.	0.1	%	0.1	%	0.2	%	0.5	%
Al	max.	0.1	%	0.1	%	0.1	%	0.1	%
Fe	max.	0.1	%	0.1	%	0.2	%	0.25	%
Mn	max.	0.1	%	0.1	%	0.1	%	0.1	%
Si	max.	0.2	%	0.2	%	0.2	%	0.2	%

Physical Characteristics

Nominal Particle Sizex)

1 - 20 mm 3 - 8 mm 1 - 20 mm

Particle Size Distribution¹⁾

< 38 µm

min. 95%

Specific Surface Area²⁾
Apparent Density³⁾

0.6 - 2.0 m²/g 8 - 12 g/inch³

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.

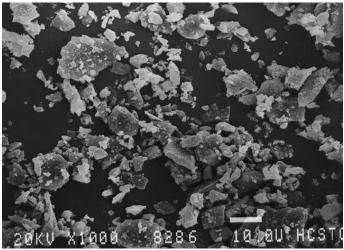
Höganäs **#**

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Photomicrograph scale see photograph, Crystalline Boron Grade K1



SEM Photomicrograph⁴⁾ scale see photograph, Crystalline Boron Grade P1



Packaging

Standard for large quantities:

50 kg steel drums (60 I) 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



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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.

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