

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)

Chemical Characteristics

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

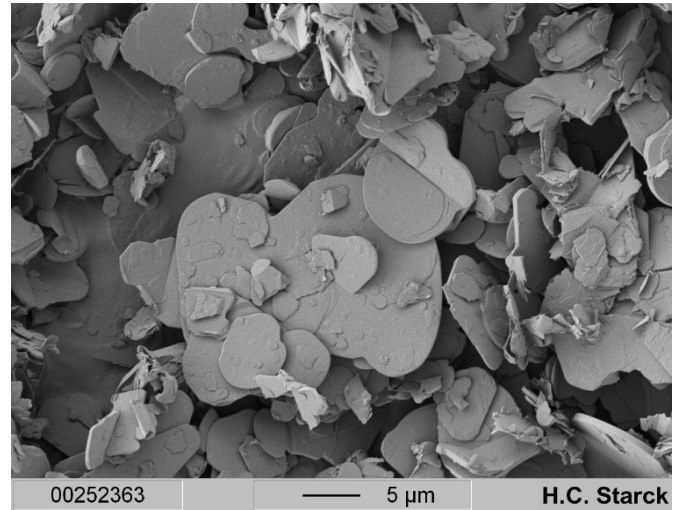
	Grade A 01	Grade B 50
B	42.5 - 43.5 %	41.5 - 43.5 %
O	max. 1.2 %	max. 6.0 %
B ₂ O ₃ (H ₂ O-soluble)	max. 0.15 %	max. 3.00 %
C	max. 0.10 %	max. 0.20 %
Crystallographic Phases	Hexagonal	Hexagonal
Structure	High degree of crystallization.	High degree of crystallization.

Physical Characteristics

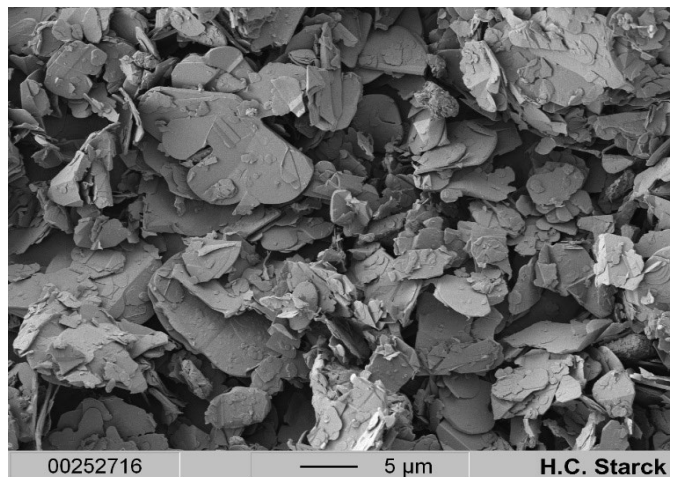
Specific Surface Area ¹⁾	3.5 - 7.0 m ² /g	3.5 - 6.0 m ² /g
Tap Density ²⁾	0.20 - 0.50 g/cm ³	0.30 - 0.50 g/cm ³
Loss on drying (130°C/0.1H)	max. 0.15 %	max. 0.70 %

1) TriStar by BET per ASTM D 3663, 2) ASTM B 527 (25 ml grad. Cylinder).

SEM picture³⁾
BN Grade A 01



SEM picture³⁾
BN Grade B 50



3) Secondary Electron Image (SEI).

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)

Boron Nitride (BN Grade A 01)

None.

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

Boron Nitride (BN Grade B 50)

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.

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