

## BORON CARBIDE GRADE HT 03

|                  |                                                                          |
|------------------|--------------------------------------------------------------------------|
| Chemical Formula | B <sub>4</sub> C                                                         |
| Chemical Name    | Boron Carbide                                                            |
| HS Number        | 28499010                                                                 |
| Grades Available | <b>Product Designation</b><br>B <sub>4</sub> C Grade HT 03 <sup>e)</sup> |

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### Chemical Characteristics

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

|                     |             |
|---------------------|-------------|
| B:C Ratio           | 3.8 - 4.2   |
| C                   | min. 20.0 % |
| N                   | max. 0.70 % |
| O                   | max. 1.80 % |
| Fe                  | max. 0.20 % |
| Si                  | max. 0.30 % |
| Al                  | max. 0.05 % |
| Other <sup>1)</sup> | max. 0.20 % |

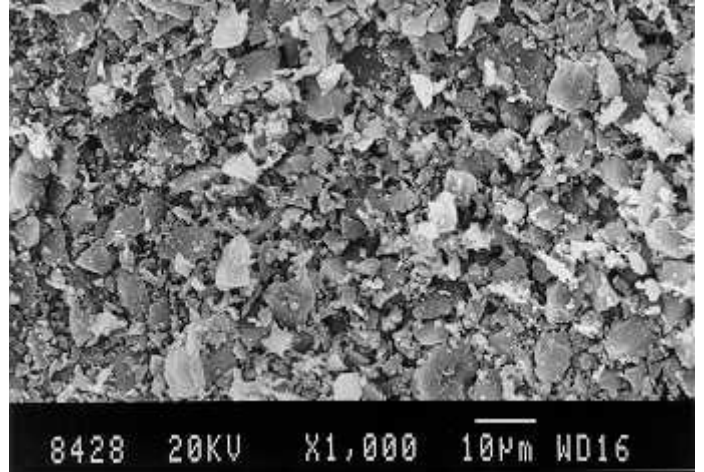
### Physical Characteristics

|                                          |                             |
|------------------------------------------|-----------------------------|
| Specific Surface Area <sup>2)</sup>      | 2.5 - 4 m <sup>2</sup> /g   |
| Green Density <sup>3)</sup>              | 1.4 - 1.6 g/cm <sup>3</sup> |
| Particle Size Distribution <sup>4)</sup> |                             |
| D 90 %                                   | 6.0 - 12.0 µm               |
| D 50 %                                   | 3.0 - 6.0 µm                |
| D 10 %                                   | 0.4 - 1.0 µm                |

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1) Sum total Ca, Cr, Mg, Mn, Ni, Ti, W, 2) Tri Star 3000 3-point by BET per ASTM D 3663, 3) 10<sup>3</sup> kg/cm<sup>2</sup>,  
4) MASTERSIZER by Laser Light Diffraction per ASTM B 822, deglomeration with high energy ultrasonic before analysis  
5) Secondary Electron Image (SEI), e) These products are under export control

SEM Photomicrograph<sup>5)</sup>  
scale see photograph,  
B<sub>4</sub>C HT 03

**Packaging**

50 kg steel drums with polyethylene inlet. (60 Liter) 8 drums on one pallet CP1 (1000x1200 mm) = 1 Packaging-unit of 400 kg. Other packaging/quantity on request.

**Lot Size**

Höganäs boron carbide powders are available in homogeneous lots up to 5 tons.

**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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