

BORON CARBIDE GRADE HP, GRADE HS

Chemical Formula	B ₄ C
Chemical Name	Boron Carbide
HS Number	28499010
Grades Available	Product Designation B ₄ C Grade HP B ₄ C Grade HS

Chemical Characteristics

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

	Grade HP		Grade HS	
B:C Ratio	3.8	- 3.9	3.7	- 3.8
C	min.	21.8 %	min.	21.8 %
N	max.	0.7 %	max.	0.7 %
O	max.	1.0 %	max.	1.7 %
Fe	max.	0.05 %	max.	0.05 %
Si	max.	0.15 %	max.	0.15 %
Al	max.	0.05 %	max.	0.05 %
Other ¹⁾	max.	0.5 %	max.	0.5 %

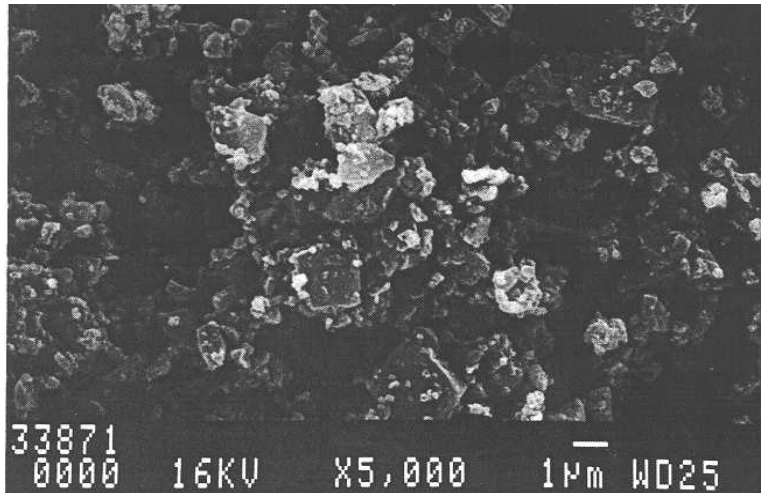
Physical Characteristics

Specific Surface Area ²⁾	6.0	- 9.0	m ² /g	15.0	- 20.0	m ² /g
Green Density ³⁾	1.5	- 1.7	g/cm ³	1.6	- 1.8	g/cm ³
Particle Size Distribution ⁴⁾						
D 90 %	4.5	- 7.5	µm	2.0	- 4.0	µm
D 50 %	1.5	- 3.5	µm	0.6	- 1.2	µm
D 10 %	0.3	- 0.6	µm	0.1	- 0.3	µm

1) Sum total Ca, Cr, Mg, Mn, Ni, Ti, W, 2) TriStar 3-point by BET per ASTM D 3663, 3) 10³ kg/cm²,

4) MASTERSIZER by Laser Light Diffraction per ASTM B 822, deglomeration with high energy ultrasonic before analysis

SEM Photomicrograph⁵⁾
scale see photograph,
B₄C Grade HS



Packaging

25 kg steel drums with polyethylene inlet.(60 Liter) 8 drums
on one pallet CP1 (1000x1200 mm) = 1 Packaging-unit of 200 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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5) Secondary Electron Image (SEI)