

BORON CARBIDE GRADE HD 07, 15, 20

Chemical Formula	B ₄ C
Chemical Name	Boron Carbide
HS Number	28499010
Grades Available	Product Designation B ₄ C Grade HD 07 B ₄ C Grade HD 15 B ₄ C Grade HD 20

Chemical Characteristics

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

	Grade HD 07	Grade HD 15	Grade HD 20
B:C Ratio	3.8 - 4.0	3.6 - 3.9	3.7 - 3.9
C	min. 21.8 %	min. 21.8 %	min. 21.8 %
N	max. 0.7 %	max. 0.7 %	max. 0.7 %
O	max. 1.2 %	max. 1.8 %	max. 2.6 %
Fe	max. 0.1 %	max. 0.1 %	max. 0.1 %
Si	max. 0.15 %	max. 0.15 %	max. 0.15 %
Al	max. 0.05 %	max. 0.05 %	max. 0.05 %
Other ¹⁾	max. 0.1 %	max. 0.1 %	max. 0.1 %

Physical Characteristics

Specific Surface Area ²⁾	6.0 - 9.0 m ² /g	15.0 - 21.0 m ² /g	22.0 - 27.0 m ² /g
Green Density ³⁾	1.3 - 1.5 g/cm ³	1.3 - 1.5 g/cm ³	1.3 - 1.5 g/cm ³
Particle Size Distribution ⁴⁾			
D 90 %	3.0 - 5.0 µm	1.2 - 2.5 µm	0.9 - 1.5 µm
D 50 %	1.0 - 2.0 µm	0.6 - 0.9 µm	0.3 - 0.6 µm
D 10 %	0.2 - 0.4 µm	0.1 - 0.3 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

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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