

BETA-SILICON CARBIDE GRADE B-hp

Chemical Formula	SiC
Chemical Name	Silicon Carbide
Description of Product	Beta Phase SiC, high purity
HS Number	28492000
Grades Available	Product Designation SiC Grade B-hp

Chemical Characteristics

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

	Grade B-hp		
C	29.5 – 31.0	%	
O	max. 1.0	%	
Al	max. 0.001	%	
Ca	max. 0.0005	%	
Fe	max. 0.001	%	
Other ¹⁾	max. 0.004	%	

Physical Characteristics

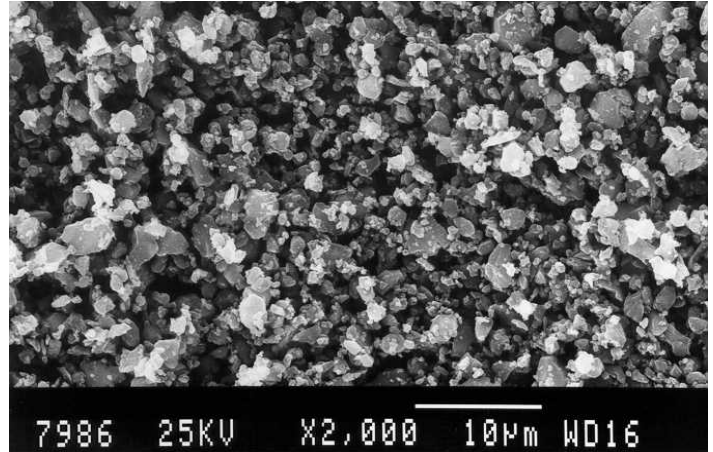
β -SiC	min. 95.0	%	
α -SiC	balance		
Si ^{free}	max. 0.1	%	
Specific Surface Area ²⁾	3.5 – 6.5	m ² /g	
Particle Size Distribution ³⁾			
D 90 %	3.0 – 5.0	μ m	
D 50 %	1.0 – 2.5	μ m	
D 10 %	0.2 – 0.4	μ m	

1) Sum total B, Co, Cu, Cr, K, Mg, Mn, Mo, Na, Ni, Ti, V, W, 2) TriStar 3000 3-point per ASTM D 3663,

3) MASTERSIZER by Laser Light Diffraction per ASTM B 822, deagglomeration with high energy ultra sonic before analysis.

Number PD-4009
Issue 3-23.08.2017

SEM Photomicrograph⁴⁾
scale see photograph,
Beta-Silicon Carbide Grade B-hp



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 silicon 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.

Höganäs Germany GmbH

Im Schleeke 78-91
38642 Goslar/Germany

Säckinger Straße 51
79725 Laufenburg/Germany

Phone +49 5321 751-53753

<https://www.hoganas.com/en/contact/>

The conditions of your use and application of our products, technical assistance and information (whether verbal, written or by way of production evaluations), including any suggested formulations and recommendations, are beyond our control. Therefore, it is imperative that you test our products, technical assistance and information to determine to your own satisfaction whether they are suitable for your intended uses and applications. This application-specific analysis at least must include testing to determine suitability from a technical as well as health, safety, and environmental standpoint. Such testing has not necessarily been done by Höganäs Germany GmbH. All information is given without warranty or guarantee. It is expressly understood and agreed that the customer assumes and hereby expressly releases Höganäs Germany GmbH from all liability, in tort, contract or otherwise, incurred in connection with the use of our products, technical assistance and information. Any statement or recommendation not contained herein is unauthorized and shall not bind Höganäs Germany GmbH. Nothing herein shall be construed as a recommendation to use any product in conflict with patents covering any material or its use. No license is implied or in fact granted under the claims of any patent. In case of order please refer to issue number of the respective product data sheet. All deliveries are based on the latest issue of the product data sheet and the latest version of our General Conditions of Sale and Delivery.

4) Secondary Electron Image (SEI).