

## BETA-SILICON CARBIDE GRADE BF 17

<b>Chemical Formula</b>	SiC
<b>Chemical Name</b>	Silicon Carbide
<b>Description of Product</b>	Beta Phase SiC
<b>HS Number</b>	28492000
<b>Grades Available</b>	<b>Product Designation</b> SiC Grade BF 17

---

### Chemical Characteristics

(Mass fraction in % [cg/g]; ppm [ $\mu$ g/g])

	<b>Grade BF 17</b>
C	29.5 - 30.5 %
O	max. 1.8 %
Al	max. 0.05 %
Ca	max. 0.01 %
Fe	max. 0.05 %

### Physical Characteristics

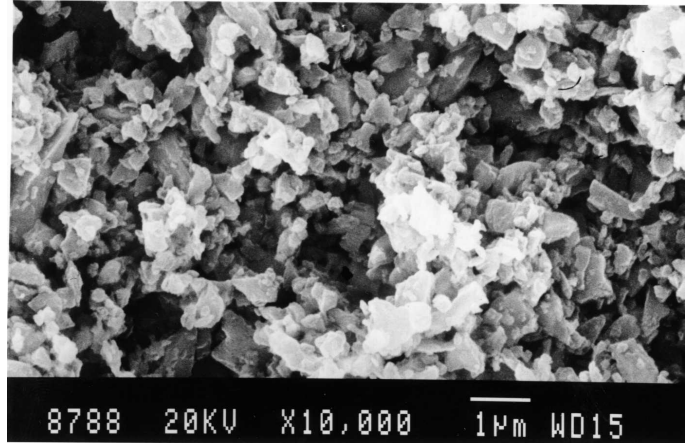
$\beta$ -SiC	min. 90 %
$\alpha$ -SiC	balance
Si <sub>free</sub>	max. 0.1 %
Specific Surface Area <sup>1)</sup>	15.5 - 18.5 m <sup>2</sup> /g
Particle Size Distribution <sup>2)</sup>	
D 90 %	0.8 - 1.2 $\mu$ m
D 50 %	0.4 - 0.6 $\mu$ m
D 10 %	0.1 - 0.3 $\mu$ m

---

1) AREAMETER II by BET per DIN 66 132,

2) MASTERSIZER by Laser Light Diffraction per ASTM B 822, degglomeration with high energy ultrasonic before analysis.

SEM Photomicrograph  
scale see photograph,  
 $\beta$ -SiC Grade BF 17



## Packaging

25 kg steel drums (60 Liter) with polyethylene inlet.  
Other packaging/quantity on request.

### Lot Size

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

### Sintering Aid

As a typical sintering aid for SiC Powders we recommend our amorphous Boron Grade I or Boron Carbide Powder Grade HS.

## 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.