

Boron carbide particle size sand user manual

Batch Number :
12.07.2024

Boron Carbide Grade : F150,F180

Chemical Formula	B ₄ C
Chemical Name	Boron Carbide
HS Number	28499010
CAS Number	12069-32-8
Grades Available	Product Designation (Customization supported) B ₄ C F150 B ₄ C F180

Chemical Characteristics

(Massfractionin%[cg/g];ppm[μg/g])

Grade	F150	F180
Total : B	77.66%	77.79%
Free : B	0.21%	0.19%
B ₂ O ₃	0.18%	0.19%
Total : C	20.27%	19.98%
Free : C	1.01%	0.92%
B ₄ C	96.71%	96.66%
Fe	0.12%	0.13%
T:B+T:C	/	/

Physical Characteristics

Specific Surface Area	6.0 - 9.0 m ² /g	15.0 - 21.0 m ² /g	22.0 - 27.0 m ² /g
Green Density	1.3 - 1.5 g/cm ³	1.3 - 1.5 g/cm ³	1.3 - 1.5 g/cm ³

Batch Number :
12.07.2024

Particle size distribution table				
Grade	Coarse Grain	Base Grain	Mixed Grain	Fine Grain
F150	8%	56%	87%	0.40%
F180	12%	72%	84%	/
Detection methods : GB/T 2481.1-1998				

Packaging

25 kg paper drums with a polyethylene inlet (60 liters), 8 drums per pallet, CP1 size (1000x1200 mm) = 200 kg per packaging unit. Other packaging or quantities can be customized upon request.

Lot Size

5D-Materials boron carbide powders are available in homogeneous lots up to 10 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)

Reproductive toxicity Category 1B - (H360)

Signal word
Danger



Hazard statements H360FD - May damage fertility.
May damage the unborn child Contains diboron

Documentation

An inspection document in accordance with EN 10204 is supplied with every shipment.

IHKA international cooperation service (Henan) Ltd.

No.01. 20th Floor, GuohongBuilding, Zhongyuan District,Zhengzhou, Henan, China

<https://www.5d-materials.com/>

All advice, formulations, and recommendations provided by 5D-Materials regarding product use are for informational purposes only and are beyond our operational control. You are solely responsible for conducting thorough testing and analysis of our products, technical data, and support to determine their technical, health, safety, and environmental suitability for your specific application. Such testing is an essential prerequisite for use, as 5D-Materials does not typically perform application-specific suitability assessments. All information is provided "as is" without warranty or guarantee. 5D-Materials hereby expressly disclaims all liability, whether in contract, tort, or otherwise, related to this information. Any unauthorized statements or recommendations are not binding. Nothing herein constitutes a recommendation to infringe any patent or grants a patent license. All orders and deliveries are subject to the current product list numbers and our latest General Terms of Sale and Delivery.