

# 3M™ Boron Carbide Grains and Powders

## Grains and Powders

For various applications in:

- Boron source
- Flux-cored wires for build-up welding
- Lapping
- Metal-matrix composites
- Sintering technology

3M™ Boron Carbide can be supplied either as grain mixtures and in narrow grain size ranges according to the FEPA standard. Grain size range 0.8 μm to over 20 mm. For grain sizes and chemical analysis values, see table.

## Typical chemistry

Product data	
B	min. 76.5%
C	min. 19.5%
B <sub>2</sub> O <sub>3</sub>	max. 0.5%
Fe	max. 0.1%
O	max. 0.8%
N	max. 0.8%
Si	max. 0.2%

## Packaging

3M™ Boron Carbide is available in 50 kg packages (barrels of laminated paper).

## Storage

3M™ Borcarbide should be stored properly and in a dry place.

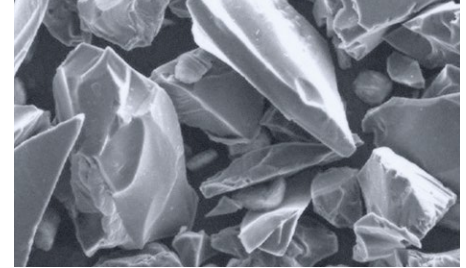
## Delivery program acc. to FEPA standard

Grain designation	Mean diameter
F10	2360 – 1700 μm
F20	1180 – 850 μm
F40	500 – 355 μm
F60	300 – 212 μm
F80	212 – 160 μm
F100	150 – 106 μm
F150	106 – 63 μm
F180	90 – 53 μm
F220	75 – 45 μm
F240	70 – 28 μm
F280	59 – 22 μm
F320	49 – 16.5 μm
F360	40 – 12 μm
F400	32 – 8 μm
F500	25 – 5 μm
F600	19 – 3 μm
F800	14 – 2 μm
F1000	10 – 1 μm
F1200	7 – 1 μm

Macrogrit

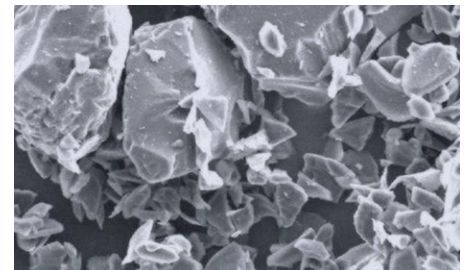
Microgrit

## 3M™ Boron Carbide 300 – 45 μm



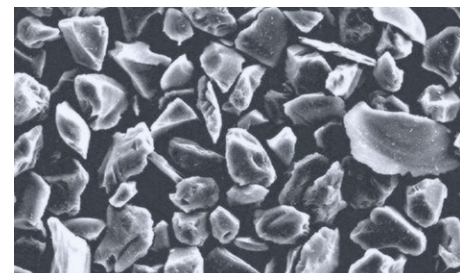
50.0 μm

## 3M™ Boron Carbide Mix



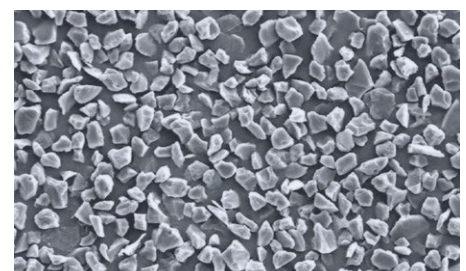
50.0 μm

## 3M™ Boron Carbide FEPA 400



20.0 μm

## 3M™ Boron Carbide FEPA 800



20.0 μm

## Outside the FEPA standard

Grain designation	Mean diameter
3000 F	approx. 0.8 μm

Further grits and special grades on request.

**Product is manufactured and sold by 3M Technical Ceramics, Zweigniederlassung der 3M Deutschland GmbH.**

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The management system has been certified according to DIN EN ISO 9001, DIN EN ISO 50001, DIN EN ISO 14001.

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