

BLACK SILICON CARBIDE



Black silicon carbide consists of crystalline silicon carbide, which is produced from silica sand and petroleum coke in electric resistance furnaces at temperatures of > 2.300 °C. Silicon carbide is iron-free, angular and extremely hard.

APPLICATIONS

- Reusable abrasive
- Grinding, lapping and polishing medium
- Grinding wheels and grinding medium
- Wear-resistant and refractory products

BLASTING SYSTEMS

- Pressure blast systems
- Injection blast cabinets

Typical physical properties

Hardness	approx. 9 - 10 mohs
Grain shape	angular
Melting point	approx. 2300°C
Specific gravity	approx. 3,2 g/cm ³
Bulk density (depending on granular size)	approx. 1,3 - 1,5 g/cm ³

Typical chemical analysis

SiC	98,00 %
Fe ₂ O ₃	0,24 %
C-frei	0,50 %
Magnetic particles	0,12 %

Packaging

25 kg bags on pallet up to 1 ton
1 ton loose in big bag

Available sizes

FEPA	Average grain size (µm)
F 008	2000 - 2800
F 010	1700 - 2360
F 012	1400 - 2000
F 014	1180 - 1700
F 016	1000 - 1400
F 020	850 - 1180
F 022	710 - 1000
F 024	600 - 850
F 030	500 - 710
F 036	425 - 600
F 040	355 - 500
F 046	300 - 425
F 054	250 - 355
F 060	212 - 300
F 070	180 - 250
F 080	150 - 212
F 090	125 - 180
F 100	106 - 150
F 120	90 - 125
F 150	63 - 106
F 180	63 - 90
F 220	53 - 75
Metric	Average grain size (mm)
	0,50 - 1,00
	1,00 - 2,00
	1,00 - 3,00

Other grain sizes can be produced if required.

