

Black Silicon Carbide Powder

Color:Black
SiC:98%min
Fe₂O₃:0.20%max
F.C:0.15%max
Maximum service temperature:1900℃
Mohs Hardness:9.15
Specific Gravity:3.2-3.4g/cm³ min
Melting Point:2250℃



Black Silicon Carbide, also known as Black SiC, is produced in an electric resistance furnace from quartz sand and petroleum coke at high temperature. The hardness and sharp particles of this material make it suitable for manufacturing of grinding wheels, coated products, wire saws, superior refractory materials and deoxidizers as well as for lapping, polishing and blasting.

Advantage

- ① Corrosion resistance, high strength, high hardness.
- ② Good wear-resisting performance, resist to shock.
- ③ It is a cost-effective substitute for Ferrosilicon.
- ④ It has Multi-functions. A: Remove oxygen from iron compound. B: Adjust the carbon content. C: Act as a fuel and provide energy.
- ⑤ It costs less than ferrosilicon and carbon combination.
- ⑥ It has no dust nuisance while feeding the material.
- ⑦ It can speed up the reaction.

Specifications

Fraction	0-1mm 1-3mm 3-5mm 5-8mm
Fine	F500, F2500, -100mesh -200mesh -320mesh
Grains	8# 10# 12# 14# 16#20# 22# 24# 30# 36# 46# 54# 60# 80# 100# 120# 150# 180# 220#
Micro powder(Standard)	W63 W50 W40 W28 W20 W14 W10 W7 W5 W3.5 W2.5
JIS	240# 280# 320# 360# 400# 500# 600# 700# 800# 1000# 1200# 1500# 2000# 2500# 3000# 4000# 6000#
FEPA	F230 F240 F280 F320 F360 F400 F500 F600 F800 F1000 F1200 F1500

Chemical Composition (%)			
Grit	SiC	F.C	Fe2O3
F230-F400	≥96	<0.4	≤1.2
F500-F800	≥95	<0.4	≤1.2
F1000-F1200	≥93	<0.5	≤1.2

Application

- ① Reusable abrasive
- ② Lapping and polishing medium
- ③ Grinding wheels and grinding medium
- ④ Wear-resistant and refractory products
- ⑤ Blasting systems
- ⑥ Pressure blast systems
- ⑦ Injection blast cabinets