

Black silicon carbide (C)

Black silicon carbide is produced at high temperature in an electric resistance type furnace with quartz sand and petroleum coke as its main raw materials. Its hardness is between fused alumina and synthetic diamond. Mechanical intensity of it is higher than fused alumina. It is brittle and sharp and has electrical and heat conductivity in some degree. The abrasives made of it are suitable for working on cast iron, non-ferrous metal, rock, leather, rubber, etc. It is also broadly used as refractory material and metallurgical additive.

Black SiC F12-F220

	SIC > %		F.C < %		Fe2O3 < %	
	Normal	Special	Normal	Special	Normal	Special
F12 – F90	98.50	99.00	0.20	0.10	0.60	0.20
F100 – F150	98.00	99.00	0.30	0.15	0.80	0.25
F180 – F220	97.00	99.00	0.30	0.15	1.20	0.20

Bulk Density

Grit	Normal Bulk Density	High Bulk Density	Grit	Normal Bulk Density	High Bulk Density
F16 – F24	1.42 – 1.50	≥ 1.50	F100	1.36 – 1.45	≥ 1.45
F30 – F40	1.42 – 1.50	≥ 1.50	F120	1.34 – 1.43	≥ 1.43
F46 – F54	1.43 – 1.51	≥ 1.51	F150	1.32 – 1.41	≥ 1.41
F60 – F70	1.40 – 1.48	≥ 1.48	F180	1.31 – 1.40	≥ 1.40
F80	1.38 – 1.46	≥ 1.46	F220	1.31 – 1.40	≥ 1.40
F90	1.38 – 1.45	≥ 1.45			

Application:

Black Silicon Carbide is suitable for make grinding wheels, cutting wheels, mounted wheels, oil stone, abrasive media, and also suitable for surface grinding, lapping or polishing. The abrasive products made of it are suitable for working on Cast Iron, Non-ferrous Metal, Rock, Leather, Rubber, Wood, Ceramic, etc. Black Silicon Carbide is also broadly used as high-grade refractory material and metallurgical additive.

Packing:

- In 25kg plastic woven bags;
- In 1000kg big bags,
- 40 x 25kg plastic woven bags into one big bags,
- 40 x 25kg plastic woven bags on pallets,
- 40 x 25kg paper bags on pallets,
- According to client's requirement.