

Silicon Carbide

Silicon carbide (SiC) are offered in two colors black and green silicon carbide. We can offer both in blocks and grains / powder forms. SiC is produced by mixing quartz sand with coke, silica and petroleum coke, wood chips, and fired into an electric furnace, heat it to a high temperature of about 2000 °C, and obtain silicon carbide after various chemical processes.

Grade	Component%			
	SiC	F.C		Fe2O3
W-SiC60#	60 min	15-20	8-12	3.5 max
W-SiC65#	65 min	15-20	8-12	3.5 max
W-SiC70#	70 min	12-15	8-12	3.5 max
W-SiC75#	75 min	12-15	8-12	3.5 max
W-SiC80#	80 min	5-15		3.5 max
W-SiC85#	85 min	5-15		3.5 max
W-SiC90#	90 min	2-10		1.2 max
W-SiC95#	95 min	0.6 max		1.2 max
W-SiC97#	97 min	0.3 max		1.2 max
W-SiC98#	98 min	0.3 max		0.8 max
W-SiC98.5#	98.5 min	0.2 max		0.6 max

Benefits and Applications of SiC

- Extremely high hardness
- Wear resistant
- Corrosion resistant
- Lightweight – Low Density
- High thermal conductivity
- Low thermal expansion coefficient
- Chemically and temperature resistant
- Outstanding thermal shock resistance
- Used as an abrasive, it can be used as a grinding tool, such as grinding wheel, oil stone, grinding head, sand tile, etc.
- As a metallurgical deoxidizer and high temperature resistant material.
- High-purity single crystals can be used to make semiconductors and silicon carbide fibers.
- Can be used as a deoxidizer for steel making and a modifier for cast iron construction.