

**NS6130-02-209**

# SILICON CARBIDE

## Nanoparticles

### Quick Facts

Product	:	Silicon Carbide Nanoparticles
Stock No	:	NS6130-02-209
CAS	:	409-21-2
Molecular Formula	:	SiC
Form	:	Powder

**Purity**  
99.9%

### Technical Specification

Molecular Weight	Density	Melting Point	APS
40.1g/mol	3.2g/cm <sup>3</sup>	2730 °C	45-65nm

Silicon carbide also known as carborundum is a unique compound of carbon and silicon is one of the hardest materials. Silicon carbide is a very stable and chemically inert compound. It is an extremely hard material, with a Mohs hardness rating of 9, close to that of diamond. It is also characterized by its high thermal conductivity, high-temperature strength, low thermal expansion, resistance to chemical reaction and ability to function as a semiconductor.

### Application

- ✓ Automobile brakes
- ✓ Ceramic plates in bulletproof vests
- ✓ Light emitting diodes and sensors
- ✓ Semiconductor process equipment
- ✓ Hot gas flow liners
- ✓ Fixed and moving turbine components
- ✓ Seals, bearing, pump vanes

**SiC**  
APS 45-65nm



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