

Technical Data Sheet

Silicon Carbide Powder

Product ID: 140600PD001 - 140600PD003

Formular: SiC

Molecular weight: 40.1 g/mol

CAS No.: 409-21-2

EINECS No.: 206-991-8

Color: Yellowish brown, green, black

Description: Our silicon carbide typically has a purity of $\geq 99.5\%$ and is available in both nano- and micron-sized grades, with particle sizes customizable upon request. It offers high hardness, excellent thermal conductivity, and outstanding stability under high-temperature and chemically aggressive conditions.

Application: High-performance ceramics, semiconductors, abrasive materials, refractory products, thermal management systems, and chemical-resistant coatings.

**Product
Image:**



1. Sizes

Product ID	Formular	Size
140600PD001	SiC (99%)	500 nm
140600PD002	SiC (99.5%)	D50 < 10 μm
140600PD003	SiC (99.999%)	D50 < 10 μm
140600PD2NDZ	SiC (99%)	Customized
140600PD2N5DZ	SiC (99.5%)	Customized
140600PD5NDZ	SiC (99.999%)	Customized

2. Chemical compositions

Element Typical Value Purity	Metal impurities (ppm)					
	Fe	Al	Cu	Na	Ca	Ni
99%	≤ 500	≤ 200	≤ 150	≤ 100	≤ 100	≤ 100
99.5%	≤ 300	≤ 200	≤ 100	≤ 100	≤ 100	≤ 80
99.999%	≤ 1.0	≤ 1.5	≤ 0.5	≤ 0.5	≤ 2.0	≤ 1.0

3. Packaging

Bottled/Bag.

Double vacuum packaging.

4. Period of Validity

It is recommended to use this product within 12 months (stored under proper conditions). If it is overdue, the product quality status should be re-evaluated.

5. Handling and Storage

When using, wear protective equipment (e.g., mask, goggles, and gloves) and operate in a well-ventilated area to avoid inhalation of dust or direct skin contact.

Store in a dry, sealed container away from moisture and strong oxidizing agents.

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