

Technical Data Sheet

Silicon Carbide Powder

Product ID:	140600PD001 - 140600PD008		
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 $\geq 99\%$ 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 (99.9%)	0.5 μm
140600PD002	SiC (99.5%)	< 100 nm
140600PD003	SiC (99.99%)	-60 Mesh
140600PD004	SiC (99.9%)	-325 Mesh
140600PD005	SiC (99.5%)	-325 Mesh
140600PD006	SiC (99%)	D50: 1 μm
140600PD007	SiC (99.999%)	-60 Mesh
140600PD008	SiC (99.9999%)	-60 Mesh
140600PD2NDZ	SiC (99%)	Customized
140600PD2N5DZ	SiC (99.5%)	Customized
140600PD3NDZ	SiC (99.9%)	Customized
140600PD4NDZ	SiC (99.99%)	Customized
140600PD5NDZ	SiC (99.999%)	Customized
140600PD6NDZ	SiC (99.9999%)	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
99.9%	≤ 150	≤ 100	≤ 100	≤ 50	≤ 50	≤ 50
99.99%	≤ 10	≤ 15	≤ 5.0	≤ 10	≤ 10	≤ 5.0
99.999%	≤ 1.0	≤ 1.5	≤ 0.05	≤ 0.5	≤ 2.0	≤ 1.0
99.9999%	≤ 0.05	≤ 0.05	≤ 0.01	≤ 0.15	≤ 0.15	≤ 0.03

Note: The purity values shown are calculated by subtracting the sum of selected measured elemental impurities from 100%. These values do not represent the result of a full elemental analysis.

3. Packaging

Bottled/Bag.

Double vacuum packaging.

Customizable packaging is available upon request.

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.

Contact Us

Website: www.vimaterial.de

Email: info@vimaterial.de

Tel: 0049 1626484175

Add: Begener Straße 14., 30625 Hannover, Niedersachsen, Germany.