



Titanium Carbide Powder

❖ Product Introduction

Titanium carbide powder is a high-purity ceramic material with a metallic-gray appearance and excellent chemical stability. It features a stable crystal structure, high hardness, and superior resistance to corrosion and oxidation. With its high melting point and outstanding thermal stability, the material performs reliably under demanding high-temperature conditions. It also offers good electrical conductivity and wear resistance, making it suitable for advanced ceramic processing, conductive composites, thermal spraying, and high-performance industrial applications.

❖ Product Characteristics

1. High purity with uniform composition
2. Excellent thermal and chemical stability
3. Superior hardness, conductivity, and wear resistance
4. Strong corrosion and oxidation resistance with high durability

❖ Product Specifications

Product ID	Shape	Formula	Purity	Size
220600PD001	Irregularity	TiC	99%	-100+325 Mesh
220600PD002	Irregularity	TiC	99%	Fsss: 2~4μm
220600PD003	Irregularity	TiC	99%	50 nm
220600PD004	Spherical	TiC	99%	45~105μm
220600PDC01	Customized	TiC	Customized	Customized

Chemical Compositions (ppm)				
T.C	F.C	Fe	Si	Ca
≥ 19.0	≤ 0.30	≤ 0.10	≤ 0.02	≤ 0.02

❖ Typical Applications

Titanium carbide powder is widely used in hard coatings, wear-resistant materials, conductive ceramics, thermal spraying, and advanced industrial applications.

❖ Packaging

Outer packaging: Cardboard box or paper drum.

Inner packaging: Double-layer vacuum-sealed bag.

Packaging specifications: 1 kg/bag or 25 kg/bag.

Custom packaging is available upon request.

❖ Storage

During transportation and storage, avoid moisture, contamination, and direct sunlight. Keep away from heat sources, strong acids, and corrosive materials. Store in a dry, sealed environment and use promptly after opening. The recommended shelf life is 24 months from the production date.

❖ Custom specifications are available, including

- Higher purity
- Controlled particle size distribution
- Custom morphology (spherical, irregular, agglomerated)

❖ Cautions

This product may cause skin and eye irritation, and inhalation of dust should be avoided as it can irritate the respiratory tract. Proper protective measures are recommended during handling and processing. Customers are advised to inform us of their intended application before purchase to ensure safe and appropriate use of the material.

Disclaimer

The information provided herein is for reference only and represents typical data, not guaranteed minimum or maximum specification values. It should not be used as a basis for final product design or specific application decisions. All data are subject to change without prior notice.

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