

Technical Data Sheet

Titanium Carbide Powder

Product ID: 220600PD001 - 220600PD005

Formular: TiC

Molecular weight: 59.88 g/mol

CAS No.: 12070-08-5

EINECS No.: 235-120-4

Color: Dark gray

Description: Our titanium carbide (TiC) powder typically has a purity of $\geq 99\%$, with higher purities and various particle sizes available upon request. It features excellent thermal and electrical conductivity as well as outstanding chemical stability, and is known as an extremely hard ceramic material.

Application: Hard Alloy Materials, Wear-Resistant Materials, High-Temperature Structural Materials, and electrically conductive Electronics and Electrical Applications, Aerospace and Aviation, etc.

**Product
Image:**



1. Sizes

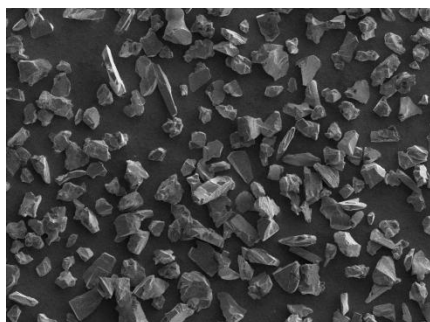
Product ID	Formular	Particle Size	Shape
220600PD001	TiC (99%)	-100+325 Mesh	Irregularity
220600PD002	TiC (99%)	Fsss: 2~4 μ m	Irregularity
220600PD003	TiC (99%)	50 nm	Irregularity
220600PD004	TiC (99%)	45~105 μ m	Spherical
220600PDDZ	TiC (99%)	Customized	Customized

2. Chemical compositions

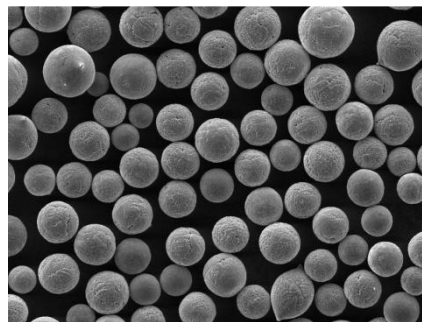
Element Typical Value Purity	Chemical Composition (wt%)				
	T.C	F.C	Fe	Si	Ca
99%	≥ 19.0	≤ 0.30	≤ 0.10	≤ 0.02	≤ 0.02

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. SEM Image



Irregularity



Spherical

4. Packaging

Bottled/Bag.

Double vacuum packed.

Customizable packaging is available upon request.

5. Period of Validity

It is recommended to use this product within 12 months. 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 cool, dry, well-ventilated area away from incompatible materials and moisture.

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