



Titanium Carbide Sputtering Target

❖ Product Introduction

Titanium carbide sputtering target is a high-purity ceramic material with a metallic-gray dense appearance. It has a stable crystal structure and excellent chemical stability. It is highly resistant to corrosion and oxidation, with a high melting point and superior thermal stability. The material also demonstrates good electrical conductivity and wear resistance, making it ideal for advanced thin-film deposition applications.

❖ Product Characteristics

1. High purity, dense structure, and uniform composition
2. Excellent thermal stability and stable chemical properties
3. Superior electrical conductivity and wear resistance
4. Highly corrosion- and oxidation-resistant, with strong mechanical strength

❖ Product Specifications

Product ID	Formula	Purity	Size
220600ST001	TiC	99.5%	Ø 50.8mm x 3.175mm
220600ST002	TiC	99.5%	Ø 50.8mm x 6.35mm
220600ST003	TiC	99.5%	Ø 101.6mm x 6.35mm
220600ST004	TiC	99.5%	51.3 mm x 88 mm x 5 mm
220600STC01	TiC	Customized	Customized

Chemical Compositions (ppm)					
Fe	Ca	Mg	Cu	Al	Mn
≤ 1000	≤ 300	≤ 200	≤ 500	≤ 500	≤ 300

❖ Typical Applications

Titanium carbide sputtering target is widely used in hard coatings, wear-resistant films, diffusion barriers, and advanced thin-film deposition applications.

❖ Packaging

Outer Packaging: Cardboard box or wooden crate.

Inner Packaging: Double-layer vacuum-sealed bag.

Packaging Specifications: 1 piece.

Custom packaging is available upon request.

❖ Storage

During transportation and storage, avoid moisture, contamination, and direct sunlight. Keep away from fire, strong acids, and corrosive substances. Use the target as soon as it is unpacked. The recommended shelf life is no more than 24 months from the production date.

❖ Custom specifications are available, including

- Higher purity
- More sizes and shapes

❖ Cautions

This product may cause skin and eye irritation, and inhalation of dust should be avoided as it can irritate the respiratory tract. We recommend that customers inform us of their intended use before purchasing to ensure safe and proper handling of the titanium carbide sputtering target.

Disclaimer

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