



## Titanium Sputtering Target

### ❖ Product Introduction

Titanium sputtering target is a high-purity silver-gray material with excellent corrosion resistance, high strength-to-weight ratio, and stable chemical properties. It features low impurities, good thermal stability, and excellent sputtering performance. It is widely used in thin film coating, semiconductor, electronics, and industrial applications.

### ❖ Product Characteristics

- 1.High-purity titanium sputtering target with uniform microstructure and low impurities.
- 2.Excellent corrosion resistance and thermal stability for thin film deposition.
- 3.Good sputtering performance with stable and efficient film formation.
- 4.High strength-to-weight ratio and excellent processability for industrial applications.

### ❖ Product Specifications

| Product ID | Formula | Purity     | Size               |
|------------|---------|------------|--------------------|
| 2200ST001  | Ti      | 99.9%      | Ø 25.4mm x 6.35mm  |
| 2200ST002  | Ti      | 99.9%      | Ø 50.8mm x 6.35mm  |
| 2200ST003  | Ti      | 99.95%     | Ø 25.4mm x 3.175mm |
| 2200ST004  | Ti      | 99.99%     | Ø 50.8mm x 3.175mm |
| 2200ST005  | Ti      | 99.99%     | Ø 76.2mm x 3.175mm |
| 2200ST006  | Ti      | 99.995%    | Ø 25.4mm x 3.175mm |
| 2200ST007  | Ti      | 99.995%    | Ø 76.2mm x 6.35mm  |
| 2200ST008  | Ti      | 99.999%    | Ø 76.2mm x 3.175mm |
| 2200ST009  | Ti      | 99.999%    | Ø 76.2mm x 6.35mm  |
| 2200ST010  | Ti      | 99.999%    | Ø 101.6mm x 6.35mm |
| 2200ST011  | Ti      | 99.999%    | Ø 203.2mm x 6.35mm |
| 2200STC01  | Ti      | Customized | Customized         |

| Chemical Composition of 99.9% Ti Target (wt%) |        |        |        |        |         |        |
|-----------------------------------------------|--------|--------|--------|--------|---------|--------|
| Al                                            | Si     | Fe     | C      | N      | H       | O      |
| ≤ 0.20                                        | ≤ 0.08 | ≤ 0.15 | ≤ 0.05 | ≤ 0.03 | ≤ 0.003 | ≤ 0.12 |

| Chemical Composition of 99.95% Ti Target (ppm) |     |      |      |      |      |      |      |     |
|------------------------------------------------|-----|------|------|------|------|------|------|-----|
| Fe                                             | Al  | Si   | Ni   | Co   | Cu   | Bi   | Pb   | Cd  |
| ≤ 8                                            | ≤ 8 | ≤ 20 | ≤ 10 | ≤ 15 | ≤ 15 | ≤ 10 | ≤ 10 | ≤ 5 |

| Chemical Composition of 99.99% Ti Target (ppm) |     |      |     |      |      |      |      |     |
|------------------------------------------------|-----|------|-----|------|------|------|------|-----|
| Al                                             | Si  | Fe   | Co  | Ni   | Cu   | Pb   | Bi   | Cd  |
| ≤ 5                                            | ≤ 8 | ≤ 20 | ≤ 8 | ≤ 15 | ≤ 15 | ≤ 10 | ≤ 10 | ≤ 5 |

| Chemical Composition of 99.999% Ti Target (ppm) |       |       |       |       |       |       |       |       |
|-------------------------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|
| Al                                              | Si    | Fe    | Co    | Ni    | Cu    | Pb    | Bi    | Cd    |
| ≤ 1.5                                           | ≤ 1.5 | ≤ 1.5 | ≤ 0.5 | ≤ 0.5 | ≤ 0.5 | ≤ 0.5 | ≤ 0.5 | ≤ 0.5 |

### ❖ Typical Applications

Titanium target features excellent corrosion resistance, high purity, and stable physical performance, widely used in thin film deposition, semiconductor manufacturing, optical coatings, electronics, aerospace, and advanced industrial applications.

### ❖ Packaging

Outer Packaging: Cardboard box or wooden crate.

Inner Packaging: Double-layer vacuum-sealed bag.

Packaging Specification: 1 piece.

Custom packaging is available upon request.

### ❖ Storage

During transportation and storage, avoid moisture, contamination, and direct sunlight. Keep away from fire sources and corrosive substances. Seal properly after opening and use as soon as possible. The shelf life is up to 24 months from the production date.

### ❖ Custom specifications are available, including

- Higher purity products are available.
- More sizes are available.
- Custom packaging is available.

### ❖ Cautions

Titanium target is stable under normal conditions. Dust generated during machining or handling may irritate eyes, skin, and the respiratory system. Avoid inhalation and use appropriate protective equipment. Customers should inform us of their intended application before purchase.

**Disclaimer**

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