

Technical Data Sheet

Tantalum Carbide Sputtering Target

Product ID: 730600ST001 - 730600ST005

Formula: TaC

Molecular weight: 192.96 g/mol

CAS No.: 12070-06-3

EINECS No.: 235-118-3

Color: Grey-black

Description: Tantalum carbide sputtering target offers high hardness, high melting point, excellent thermal stability, corrosion resistance, and electrical conductivity, making it suitable for high-temperature and high-performance thin-film deposition applications.

Application: Semiconductor devices, high-temperature coatings, wear-resistant films, protective coatings, advanced electronic and optical components, etc.

**Product
Image:**



1. Sizes

Product ID	Formula	Size
730600ST001	TaC (99.5%)	Ø 25.4mm x 6.35mm
730600ST002	TaC (99.5%)	Ø 50.8mm x 3.175mm
730600ST003	TaC (99.5%)	Ø 76.2mm x 3.175mm
730600ST004	TaC (99.5%)	Ø 101.6 mm x 6.35 mm
730600ST005	TaC (99.5%)	Ø 203.2 mm x 6.35 mm
730600STDZ	TaC (99.5%)	Customized

2. Chemical compositions

Element Typical Value Purity	Metal impurities (ppm)							
	Al	Fe	Mo	Si	Ti	V	Nb	W
99.5%	≤ 50	≤ 1000	≤ 50	≤ 100	≤ 100	≤ 50	≤ 1000	≤ 500

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

Carton/wooden box outer bag.

Double vacuum inner bag.

4. 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

Handle in a clean, dry environment and use appropriate protective equipment to prevent contamination and surface damage during installation and sputtering.

Store in a sealed, dry, and dust-free container at room temperature, protected from moisture, corrosive substances, and mechanical impact.

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