

Technical Data Sheet

Tantalum Oxide Sputtering Target

Product ID: 730800ST001 - 730800ST009

Formular: Ta₂O₅

Molecular weight: 441.89 g/mol

CAS No.: 1314-61-0

EINECS No.: 215-238-2

Color: Grayish white

Description: Our tantalum pentoxide has a purity of ≥99.95% and can be customized to different sizes based on requirements, offering excellent high-temperature resistance and chemical stability.

Application: Semiconductor, optoelectronic films, capacitors, high-temperature corrosion-resistant materials.

Product

Image:



1. Sizes

Product ID	Formular	Size
730800ST001	Ta ₂ O ₅ (99.95%)	Ø 50.8 mm x 3.175 mm
730800ST002	Ta ₂ O ₅ (99.95%)	Ø 76.2 mm x 3.175 mm
730800ST003	Ta ₂ O ₅ (99.95%)	Ø 101.6 mm x 6.35 mm
730800ST004	Ta ₂ O ₅ (99.99%)	Ø 25.4 mm x 6.35 mm
730800ST005	Ta ₂ O ₅ (99.99%)	Ø 50.8 mm x 3.175 mm
730800ST006	Ta ₂ O ₅ (99.99%)	Ø 50.8 mm x 6.35 mm
730800ST007	Ta ₂ O ₅ (99.99%)	Ø 76.2 mm x 3.175 mm
730800ST008	Ta ₂ O ₅ (99.99%)	Ø 101.6 mm x 6.35 mm
730800ST009	Ta ₂ O ₅ (99.99%)	Ø 203.2 mm x 6.35 mm
730800ST3N5DZ	Ta ₂ O ₅ (99.95%)	Customized
730800ST4NDZ	Ta ₂ O ₅ (99.99%)	Customized

2. Chemical compositions

Element Typical Value Purity	Metal impurities (ppm)							
	Fe	Nb	Al	Mo	Cr	W	Ti	Si
99.95%	≤ 50	≤ 50	≤ 10	≤ 10	≤ 10	≤ 30	≤ 10	≤ 50
99.99%	≤ 20	≤ 20	≤ 5	≤ 5	≤ 5	≤ 10	≤ 5	≤ 20

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

When using, wear appropriate protective and operate in a well-ventilated environment, avoid contact with strong acids or bases.

Store in a dry, cool place, away from moisture and high temperatures, and follow proper procedures for disposal and cleaning to maintain material integrity and safety.

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