

Technical Data Sheet

Tantalum Oxide Powder

Product ID: 730800PD001 - 730800PD006

Formula: Ta₂O₅

Molecular weight: 441.89 g/mol

CAS No.: 1314-61-0

EINECS No.: 215-238-2

Color: White

Description: Tantalum pentoxide powder offers high purity, excellent chemical stability, a high dielectric constant, and outstanding high-temperature resistance.

Application: Electronics, optics, semiconductors, and thin-film deposition.

Product

Image:



1. Sizes

Product ID	Formula	Size
730800PD001	Ta ₂ O ₅ (99.9%)	D50< 10µm
730800PD002	Ta ₂ O ₅ (99.99%)	D50< 10µm
730800PD003	Ta ₂ O ₅ (99.99%)	D50< 5µm
730800PD004	Ta ₂ O ₅ (99.99%)	D50< 1µm
730800PD005	Ta ₂ O ₅ (99.995%)	D50< 10µm
730800PD006	Ta ₂ O ₅ (99.995%)	D50< 5µm
730800PD3NDZ	Ta ₂ O ₅ (99.9%)	Customized
730800PD3N5DZ	Ta ₂ O ₅ (99.95%)	Customized
730800PD4N5DZ	Ta ₂ O ₅ (99.995%)	Customized

2. Chemical compositions

Element Typical Value Purity	Metal impurities (ppm)					
	Nb	Ti	Fe	Al	Si	Ca
99.9%	≤ 200	≤ 20	≤ 100	≤ 20	≤ 100	≤ 50
99.99%	≤ 20	≤ 5	≤ 10	≤ 5	≤ 20	≤ 10
99.995%	≤ 15	≤ 2	≤ 3	≤ 2	≤ 15	≤ 5

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

Bottle/Bag.

Double vacuum packed.

Custom packaging is available.

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 well-ventilated area while avoiding dust generation and direct contact with the eyes and skin.

Store in a tightly sealed container in a cool, dry, and well-ventilated place, protected from moisture and contamination.

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