

## Certificate of Analysis (CoA)

Jan. 17, 2026

**Product Name:** Tantalum Wire

**Chemical Formula:** Ta

**Purity:** 99.99% (4N)

**Dimensions:** Ø1.0 mm × Length 10,000 mm

**Form:** Wire

**Quantity:** 1 EA

**Lot Number:** CSXBY-260116035

**Manufactured by:** MetalsTek Engineering

### Physical Description

- Form: Metallic wire
- Appearance: Silver-gray metallic luster
- Crystal Structure: Body-centered cubic (bcc)
- Theoretical Density: 16.65 g/cm<sup>3</sup>
- Fabrication: Electron-beam melted, wire drawn under controlled conditions

### Theoretical Composition (Mass %)

Element	Symbol	Mass %
Tantalum	Ta	100%

Balance: Tantalum

### Chemical Composition (by GDMS / ICP-OES)

Element	Symbol	Max. Content (ppm)
Tantalum	Ta	Balance (>99.99%)
Oxygen	O	30–50
Carbon	C	15–25

## Certificate of Analysis (CoA)

Jan. 17, 2026

Element	Symbol	Max. Content (ppm)
Nitrogen	N	10–15
Iron	Fe	<10
Nickel	Ni	<10
Tungsten	W	<10
Molybdenum	Mo	<10
Silicon	Si	<5
Aluminum	Al	<5
Copper	Cu	<5
Other elements (each)	–	<5
<b>Total Impurities</b>	–	<100 ppm

### Handling & Storage

- Store in clean, dry, vacuum-sealed packaging.
- Avoid contact with moisture and contaminants.
- Handle with clean gloves to maintain surface cleanliness.

### Declaration

This certificate confirms that the material described above complies with the stated specifications and has passed quality inspection prior to shipment.

### Authorized Signature:

Inspection Certificate by: Nancy Liu

Approver by: Chen Qiang

