

## Certificate of Analysis (CoA)

July 14, 2025

**Product Name:** Tellurium Sputtering Target**Chemical Formula:** Te**Purity:** ≥99.99% (4N)**Dimensions:** Ø50.8 mm × 6.35 mm (2" × 1/4")**Backing Plate:** Indium bonded to 3 mm thick Titanium plate with keeper**Lot Number:** XKCS-25-SC-3958

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### Physical Description

- Form: Semiconductor sputtering target
- Appearance: Gray to silvery-black, brittle solid
- Crystal Structure: Trigonal (hexagonal chains)
- Theoretical Density: ~6.24 g/cm<sup>3</sup>
- Bonding Method: Indium bonded to Ti backing plate
- Accessories: Keeper screwed to protect surface and mounting

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### Theoretical Composition

- **Element:** Tellurium (Te)
- **Atomic Weight:** 127.60 g/mol
- **Mass Fraction:** 100% Te (elemental)

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### Chemical Composition (by ICP-OES)

Element	Symbol	Max. Content (ppm)
Tellurium	Te	Balance (>99.99%)
Selenium	Se	<10
Sulfur	S	<10
Iron	Fe	<10
Lead	Pb	<10
Other trace elements (each) –		<10
<b>Total Impurities</b>	–	<100 ppm

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### Handling & Storage

- Tellurium is brittle and sensitive to mechanical stress.
- Store in vacuum-sealed or inert atmosphere packaging.
- Avoid strong impacts or bending of the bonded structure.
- Use gloves and clean tools when handling.

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### Declaration

We certify that the above product has been manufactured and tested according to our quality assurance protocols and meets the stated specifications.

Inspection Certificate by: Nancy Liu

Approver by: Chen Qiang

