THIN-FILM MATERIALS

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Certificate of Analysis (CoA)

Dec. 8, 2025

Product Name: Germanium Telluride Sputtering Target ($GeTe_4$)
Chemical Formula: $GeTe_4$
Purity: 99.999% (5N)
Dimensions: Ø76.2 mm × 3.0 mm (±0.1 mm)
Backing Plate: None
Quantity: 1 pc
Lot Number: CSJM-251207TB
Manufactured by: Thin-Film Materials

Physical Description

- Form: Semiconductor/compound sputtering target
- Appearance: Dark gray to black, dense ceramic-like surface
- Fabrication: High-purity vacuum melting and precision machining
- Typical Phase: Hexagonal Ge–Te compound (Te-rich)

Chemical Composition (by ICP-OES / GDMS)

Element	**Symbol**	**Max. Content (ppm)**
Germanium	Ge	Balance
Tellurium	Te	Balance
Oxygen	O	<20
Carbon	C	<20
Silicon	Si	<10
Aluminum	Al	<10
Iron	Fe	<10
Calcium	Ca	<10
Magnesium	Mg	<10
Copper	Cu	<10
Other elements (each)	–	<5
Total Impurities	–	<50 ppm

Handling & Storage

- Store in vacuum-sealed packaging.
- Avoid moisture and rapid temperature changes.
- Handle with clean gloves to prevent contamination.

Declaration

This product has been manufactured and tested according to our quality control standards and meets the specifications stated herein.

Authorized Signature:

Inspection Certificate by: **Nancy Liu**

Approver by: **Chen Qiang** Chen Qiang