

Certificate of Analysis (CoA)

Apr. 27, 2026

Product Name: Lead Telluride Granules**Chemical Formula:** PbTe**Purity:** 99.999% (5N)**Particle Size:** Below 7 mm**Form:** Granules / Pieces**Quantity:** 5 KG**Lot Number:** CSFM-260424076**Manufactured by:** Thin-Film Materials

Physical Description

- Appearance: Metallic gray to dark crystalline granules
 - Crystal Structure: Cubic (NaCl-type)
 - Theoretical Density: ~8.16 g/cm³
 - Melting Point: ~924 °C
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Chemical Composition (by GDMS / ICP-OES)

Element	Symbol	Max. Content (ppm)
Lead Telluride	PbTe	Balance (>99.999%)
Oxygen	O	<3
Carbon	C	<2
Iron	Fe	<1
Copper	Cu	<0.5
Silver	Ag	<0.5
Bismuth	Bi	<0.5
Silicon	Si	<0.5
Aluminum	Al	<0.5
Other elements (each) –		<0.5
Total Impurities	–	<10 ppm

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Handling & Storage

- Store in sealed, dry containers under inert atmosphere if possible.
 - Avoid moisture and contamination.
 - Handle with gloves to maintain purity.
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Declaration

The material described above has been manufactured, inspected, and released in accordance with internal quality control procedures and complies with the specifications stated herein.

Authorized Signature:

Inspection Certificate by: Nancy Liu

Approver by: Chen Qiang

