

Certificate of Analysis (CoA)

Dec. 2, 2025

Product Name: Magnesium Oxide Sputtering Target**Chemical Formula:** MgO**Purity:** 99.99% (4N)**Dimensions:** Ø50.8 mm (2") × 2.0 mm (±0.1 mm)**Backing Plate:** Elastomer-bonded to 1.0 mm OFHC Copper plate**Quantity:** 1 pc**Lot Number:** CSJM-251202TB**Manufactured by:** Thin-Film Materials

Physical Description

- Form: Ceramic sputtering target
 - Appearance: White, dense, fine-grained ceramic
 - Crystal Structure: Rock salt (NaCl-type) cubic structure
 - Theoretical Density: 3.58 g/cm³
 - Fabrication: High-temperature sintering and precision machining
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Chemical Composition (by XRF / ICP-OES)

| Element | Symbol | Max. Content (ppm) |
|-------------------------|--------|--------------------|
| Magnesium | Mg | Balance (>99.99%) |
| Silicon | Si | <20 |
| Iron | Fe | <20 |
| Calcium | Ca | <20 |
| Aluminum | Al | <20 |
| Sodium | Na | <10 |
| Nickel | Ni | <10 |
| Copper | Cu | <10 |
| Other elements (each) – | | <10 |
| Total Impurities | – | <100 ppm |

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Handling & Storage

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

