

Certificate of Analysis (CoA)

Dec. 11, 2025

Product Name: Aluminum Magnesium Boride Sputtering Target**Chemical Formula:** AlMgB₁₄**Purity:** 99.9% (3N)**Dimensions:** Ø76.2 mm × 4.0 mm (±0.1 mm)**Backing Plate:** None**Quantity:** 1 pc**Lot Number:** CSJM-251211TB**Manufactured by:** Thin-Film Materials

Physical Description

- Form: Ceramic/boride sputtering target
- Appearance: Black to dark gray, dense ceramic
- Typical Phase: AlMgB₁₄ (Boron-rich boride phase)
- Theoretical Density: ~2.5–2.6 g/cm³
- Fabrication: High-temperature boron-rich reactive sintering and precision machining

Chemical Composition (by XRF / ICP-OES)

Element	Symbol	Max. Content (ppm)
Aluminum	Al	Balance
Magnesium	Mg	Balance
Boron	B	Balance
Silicon	Si	<50
Iron	Fe	<50
Calcium	Ca	<30
Nickel	Ni	<20
Copper	Cu	<20
Oxygen	O	<100
Other elements (each)	–	<10
Total Impurities	–	<500 ppm

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Handling & Storage

- Store in vacuum-sealed packaging.
 - Keep dry and avoid thermal shock due to ceramic brittleness.
 - 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

