### 32 N Gould St., Sheridan, WY 82801, USA

Tel.: +1 (786) 825 8645

Email: sales@thinfilmmaterials.com WhatsApp: Keyue Advanced Materials Website: www.thinfilmmaterials.com

# **Certificate of Analysis (CoA)**

Sep. 27, 2025

**Product Name**: Indium Oxide (In<sub>2</sub>O<sub>3</sub>) Sputtering Target

Chemical Formula: In<sub>2</sub>O<sub>3</sub> **Purity**: 99.99% (4N)

**Dimensions**:  $\emptyset$ 50.8 mm  $\times$  3.0 mm ( $\pm$ 0.1 mm)

Backing Plate: Indium-bonded to 2 mm thick Copper (Cu) plate

**Lot Number**: To be assigned upon production

Quantity: 1 piece

Manufactured by: Thin-Film Materials

## **Physical Description**

Form: Oxide ceramic sputtering target, bonded

• Appearance: Light yellow to yellowish-brown, dense ceramic

Crystal Structure: Cubic (Bixbyite-type)

• Theoretical Density: ~7.12 g/cm³

Fabrication: High-purity powder, pressing, sintering, precision grinding,

and bonding

## **Total Impurities (by ICP-OES / GDMS)**

Element / Component	Symbol	Max. Content (ppm)
Indium Oxide	In <sub>2</sub> O <sub>3</sub>	Balance (>99.99%)
Tin	Sn	< 5
Iron	Fe	< 5
Zinc	Zn	< 5
Lead	Pb	< 5
Aluminum	Al	< 5
Copper	Cu	< 5



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Element / Component Symbol Max. Content (ppm)

Other Metallic Impurities (each) < 1

## **Handling & Storage**

- This is a brittle ceramic material. Handle with care to avoid chipping or cracking.
- Store in a dry environment to prevent moisture absorption.
- Avoid thermal shock during handling and use.

#### **Declaration**

We confirm that the above product meets the specified purity and dimensional requirements for high-performance thin-film deposition.

**Authorized Signature:** 

Inspection Certificate by: **Nancy Liu** 

Chen Qiang hon Gang Approver by: