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)

Dec. 2, 2025

Product Name: Tungsten Sputtering Target

Chemical Formula: W **Purity:** 99.95% (3N5)

Dimensions: Ø50.8 mm (2") × 1.5 mm (±0.05 mm)

Backing Plate: None

Quantity: 1 pc

Lot Number: CSJM-251202TB

Manufactured by: Thin-Film Materials

Physical Description

Form: Metallic sputtering target • Appearance: Gray metallic luster

• Crystal Structure: Body-centered cubic (bcc)

Theoretical Density: 19.25 g/cm³

Fabrication: Powder metallurgy consolidation and precision machining

Theoretical Stoichiometric Composition (Mass %)

Element Symbol Mass %

Tungsten W 100%

Balance: Tungsten

Chemical Composition (by GDMS / ICP-OES)

Element	Symbol Max. Content (ppm)		
Tungsten	W	Balance (>99.95%)	
Oxygen	0	<150	
Carbon	С	<100	
Nitrogen	N	<50	



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Element	Symbo	l Max. Content (ppm)
Iron	Fe	<20
Nickel	Ni	<20
Silicon	Si	<20
Aluminum	Al	<20
Calcium	Ca	<10
Magnesium	Mg	<10
Copper	Cu	<10
Other elements (each) —	<10
Total Impurities	_	<500 ppm

Handling & Storage

Authorized Signature:

- Store in vacuum-sealed packaging.
- Keep dry and avoid corrosive environments.
- 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.

Inspection Certificate by:	Nancy Liu		_
Approver by:	Chen Qiang	chen	Gang