

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. 18, 2025

Product Name: Silicon Sputtering Target (P-Type, Boron-Doped)

Chemical Formula: Si (B-Doped)

Purity: 99.999% (5N)

Dimensions: Ø76.2 mm (3") × 3.18 mm (±0.1 mm)

Backing Plate: Indium bonded to OFHC Copper plate, 3 mm thick

Quantity: 1 Piece

Lot Number: CSXK-25SC-0904TB Manufactured by: Thin-Film Materials

Physical Description

Form: Semiconductor sputtering target
Appearance: Gray, metallic-like surface
Crystal Structure: Diamond cubic (Si)

Resistivity: 0.017–0.019 Ω·cm

Fabrication: High purity zone-refined silicon, B-doped, machined and

indium bonded to copper plate

Theoretical Stoichiometric Composition (%)

Element Symbol %

Silicon Si ~100%

Boron (dopant) B trace, ppm

level

Balance: Silicon (B-doped)

Chemical Composition (by GDMS / ICP-MS)

Element	Symbol	Max. Content (ppm)
Silicon	Si	Balance (>99.999%)
Boron (dopant)	В	Controlled, ppm-level (per resistivity spec)



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Element	Symbol	Max. Content (ppm)
Oxygen	0	<20
Carbon	С	<10
Iron	Fe	<5
Aluminum	Al	<5
Calcium	Ca	<5
Sodium	Na	<3
Nickel	Ni	<3
Copper	Cu	<3
Lead	Pb	<1
Other trace elements (each)	_	<5
Total Impurities (excl B dopant)	· _	<50 ppm

Handling & Storage

- Store under cleanroom or inert conditions to prevent surface oxidation.
- Handle with clean gloves to avoid contamination.
- · Avoid mechanical shock to prevent cracking or chipping.

Declaration

We certify that the above product has been manufactured and tested in accordance with our quality control system and meets the specifications stated herein.

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