

Certificate of Analysis (CoA)

Sep. 27, 2025

Product Name: Praseodymium Metal Sheet**Chemical Formula:** Pr**Purity:** 99% (2N)**Dimensions:** 100 mm × 100 mm × 1.0 mm (Thickness: ±0.1 mm; Other: ±1.0 mm)**Form:** As rolled**Lot Number:** CSJM-25SC-0926TB**Quantity:** 5 pieces**Manufactured by:** Thin-Film Materials

Physical Description

- Form: Metallic sheet, as rolled
- Appearance: Grayish-yellow metallic luster
- Crystal Structure: Double Hexagonal Close-Packed (DHCP) - characteristic of Pr at room temperature
- Theoretical Density: ~6.77 g/cm³
- Fabrication: Melted, rolled, and cut

Total Impurities (by ICP-MS / ICP-OES)

Element / Component	Symbol	Max. Content (ppm)
Praseodymium	Pr	Balance (>99%)

Neodymium	Nd	3000
Lanthanum	La	1500
Cerium	Ce	1000
Iron	Fe	400
Calcium	Ca	500

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Element / Component	Symbol	Max. Content (ppm)
Magnesium	Mg	300
Oxygen	O	500
Other Impurities (each)	-	< 1000

Handling & Storage

- Praseodymium is a highly reactive rare earth metal. Handle in an inert atmosphere (e.g., argon glove box) to prevent oxidation.
- Store in a dry environment, preferably under argon or in vacuum-sealed packaging.
- Avoid contact with moisture and air to maintain surface quality.

Declaration

We certify that the above product has been manufactured under our quality management system. It has been tested and verified to meet the specifications stated herein and is fit for its intended use.

Authorized Signature:Inspection Certificate by: Nancy Liu

Approver by:

Chen Qiang