

Certificate of Analysis (CoA)

Aug. 18, 2026

Product Name: Niobium Pentoxide Powder

Chemical Formula: Nb₂O₅

Purity: 99.9% (3N)

Particle Size: 500–800 nm

Morphology: Fine Powder

Quantity: 500 g

Lot Number: CSTB-260818B0025

Manufactured by: MetalsTek Engineering

Physical Description

Appearance: White to off-white powder

Theoretical Density: ~4.47 g/cm³

Molecular Weight: 265.81 g/mol

Melting Point: ~1512 °C

Chemical Composition

Component	Formula	Specification
Niobium Pentoxide	Nb ₂ O ₅	≥99.9%

Impurity Analysis (ICP-OES / ICP-MS)

Element	Symbol	Max. Content (ppm)
Tantalum	Ta	≤150
Titanium	Ti	≤100
Iron	Fe	≤100
Silicon	Si	≤100

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Aluminum	Al	≤80
Tungsten	W	≤50
Zirconium	Zr	≤50
Calcium	Ca	≤50
Magnesium	Mg	≤30
Sodium	Na	≤30
Potassium	K	≤30
Other Metallic Impurities (each)	—	≤30
Total Impurities	—	≤1000

Particle Size & Visual Inspection

Item	Result
Nominal Particle Size	500–800 nm
Measurement Method	SEM / Laser Particle Size Analysis
Morphology	Fine Powder
Visible Foreign Matter	None observed
Package Quantity	500 g

Handling & Storage

- Store in a cool, dry, clean environment.
- Keep the package tightly sealed when not in use.
- Avoid moisture, contamination, and prolonged exposure to air.
- Minimize dust generation and use suitable personal protective equipment when handling fine powder.



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Declaration

The material described above has been manufactured, inspected, and released in accordance with internal quality control procedures and complies with the stated specification of 99.9% (3N) and nominal particle size 500–800 nm.

Authorized Signature:

Inspection Certificate by: Nancy Liu

Approver by: Chen Qiang

A handwritten signature in black ink, reading 'Chen Qiang' in a cursive style.