

Technical Data Sheet

Niobium Pentoxide Sputtering Target

Product ID: 410800ST001 - 410800ST007

Formular: Nb₂O₅

Molecular weight: 265.81 g/mol

CAS No.: 1313-96-8

EINECS No.: 215-213-6

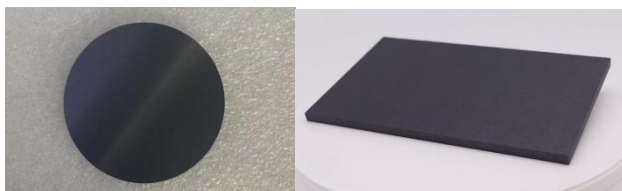
Color: Black / White

Description: Our niobium pentoxide sputtering targets have a typical purity of ≥99.99% and are available in white and black. They can also be customized in various sizes and purities as needed. They feature excellent chemical stability, a high melting point, and outstanding corrosion resistance.

Application: Thin film deposition, electronics industry, optics and coatings, etc.

Product

Image:



1. Sizes

Product ID	Formular	Size	Color
410800ST001	Nb ₂ O ₅ (99.99%)	124.6mm x 110mm x 8mm	Black / White
410800ST002	Nb ₂ O ₅ (99.99%)	316.3 mm x 127 mm x 10mm	Black / White
410800ST003	Nb ₂ O ₅ (99.99%)	299.6 mm x 129 mm x 8mm	Black / White
410800ST004	Nb ₂ O ₅ (99.99%)	Ø 50.8 mm x 3.175 mm	Black / White
410800ST005	Nb ₂ O ₅ (99.99%)	Ø 76.2 mm x 6.35 mm	Black / White
410800ST006	Nb ₂ O ₅ (99.99%)	Ø 101.6 mm x 3.175 mm	Black / White
410800ST007	Nb ₂ O ₅ (99.99%)	Ø 203.2 mm x 6.35 mm	Black / White
410800STDZ	Nb ₂ O ₅ (99.99%)	Customized	Customized

2. Chemical compositions

Element Typical Value Purity	Metal impurities (ppm)						
	Ta	Al	As	Bi	Ca	Cu	Mn
99.99%	≤ 25	≤ 20	≤ 5	≤ 5	≤ 10	≤ 5	≤ 5

Note: The purity values shown are calculated by subtracting the sum of selected measured elemental impurities from 100%. These values do not represent the result of a full elemental analysis.

3. Density

≥ 4.55g/cm³

4. Resistivity

< 10mΩ·cm

5. Packaging

Carton/wooden box outer bag.

Double vacuum inner bag.

Customized packaging available upon request.

6. Period of Validity

It is recommended to use this product within 12 months. If it is overdue, the product quality status shall be re evaluated.

5. Handling and Storage

When using, wear protective equipment (such as gloves and safety goggles) to avoid inhalation of dust or skin contact.

Stored in a dry, well-ventilated environment, avoiding contact with moisture or corrosive substances.

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