

Technical Data Sheet

Niobium Pentoxide Rotary Target

Product ID: 410800RT001 / 410800RT002

 Formular:
 Nb₂O₅
 Molecular weight:
 265.81 g/mol

 CAS No.:
 1313-96-8
 EINECS No.:
 215-213-6

Color: Black

Description: Our niobium oxide rotary targets have a typical purity of ≥99.9% and can be

customized in various sizes. They feature high purity, high density, and excellent

film uniformity.

Application: Semiconductor, optoelectronic thin films, optical coatings, and high-performance

functional materials fabrication.

Product Image:



1. Sizes

Product ID	Formular	Size		
410800RT001	NbO _x (99.9%)	ID125mm x OD133mm x 850mm		
410800RT002	NbO _x (99.9%)	OD32 mm x ID23 mm x 150mm		
410800RTDZ	NbO _x (99.9%)	Customized		

2. Chemical compositions

	Metal impurities (ppm)							
Typical Value Purity	Та	Si	Fe	Cu	Al	Sn	W	
99.9%	≤ 80	≤ 80	≤ 80	≤ 30	≤ 20	≤ 10	≤ 30	

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.



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3. Density

≥ 4.7g/cm³

4. Resistivity

< 50mΩ·cm

5. Roughness

≤ 3.2µm

6. Packaging

Carton/wooden box outer bag.

Double vacuum inner bag.

Customized packaging available upon request.

7. 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.

Store in a dry, cool, and well-ventilated place, away from humidity and high temperatures.

Contact Us

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