HALBLEITER MATERIAL

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Technical Data Sheet

Niobium Sputtering Target

Product ID: **4100ST001 - 4100ST015**
Formula: Nb **Molecular weight:** 92.91 g/mol
CAS No.: 7440-03-1 **EINECS No.:** 231-113-5
Color: Gray
Description: Niobium sputtering targets offer high purity, good thermal stability, and reliable film formation for thin-film deposition applications.
Application: Semiconductor devices, optical coatings, superconducting films, etc.
Product Image:



1. Physical Sizes

Product ID	Formula	Size
4100ST001	Nb (99.9%)	Ø 50.8 mm x 3.175 mm
4100ST002	Nb (99.9%)	Ø 76.2 mm x 3.175 mm
4100T003	Nb (99.9%)	Ø 76.2 mm x 6.35 mm
4100ST004	Nb (99.95%)	Ø 50.8 mm x 3.175 mm
4100ST005	Nb (99.95%)	Ø 50.8 mm x 6.35 mm
4100ST006	Nb (99.95%)	Ø 76.2 mm x 3.175 mm
4100ST007	Nb (99.95%)	Ø 76.2 mm x 6.35 mm
4100ST008	Nb (99.95%)	Ø 101.6 mm x 3.175 mm
4100ST009	Nb (99.95%)	Ø 203.2 mm x 6.35 mm
4100ST010	Nb (99.99%)	Ø 50.8 mm x 3.175 mm
4100ST011	Nb (99.99%)	Ø 50.8 mm x 6.35 mm
4100ST012	Nb (99.99%)	Ø 76.2 mm x 3.175 mm
4100ST013	Nb (99.99%)	Ø 76.2 mm x 6.35 mm
4100ST014	Nb (99.99%)	Ø 101.6 mm x 3.175 mm
4100ST015	Nb (99.99%)	Ø 203.2 mm x 6.35 mm
4100ST3NDZ	Nb (99.9%)	Customized
4100ST3N5DZ	Nb (99.95%)	Customized
4100ST4NDZ	Nb (99.99%)	Customized

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2. Chemical compositions

	Chemical Compositions (ppm)								
Element / Typical Value / Purity	Ta	Fe	Ni	Si	Mo	Ti	Cu	W	Cr
99.9%	≤500	≤80	≤30	≤50	≤30	≤30	≤30	≤80	≤30
99.95%	≤150	≤60	≤20	≤50	≤20	≤30	≤20	≤40	≤30
99.99%	≤50	≤5	≤2	≤8	≤20	≤5	≤5	≤10	≤2

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. Packaging

Carton/wooden box outer bag.
Double vacuum inner bag.
Customized packaging available upon request.

4. Period of Validity

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

5. Handling and Storage

Handle with clean gloves and suitable tools to prevent surface contamination and physical damage.

Store in sealed packaging in a cool, dry environment to protect them from moisture and contamination.

Contact Us

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