

Technical Data Sheet

Niobium Metal Powder

Product ID: 4100PD001 - 4100PD006

Formular: Nb

Molecular weight: 92.91 g/mol

CAS No.: 7440-03-1

EINECS No.: 231-113-5

Color: Gray

Description: Our niobium powder typically has a purity greater than 99.9% and is available in both spherical and irregular forms, featuring high ductility and superconductivity.

Application: Superconducting materials, electronics industry, aerospace, specialized coatings, and powder metallurgy, etc.

**Product
Image:**



1. Sizes

Product ID	Formular	Particle Size	Shape
4100PD001	Nb (99.9%)	-100 Mesh	Irregular
4100PD002	Nb (99.95%)	-200 Mesh	Irregular
4100PD003	Nb (99.95%)	-325 Mesh	Irregular
4100PD004	Nb+Ta (99.99%)	-200 Mesh	Irregular
4100PD005	Nb (99.9%)	15-53 µm	Spherical
4100PD006	Nb (99.95%)	50-150 µm	Spherical
4100PD3NDZ	Nb (99.9%)	Customized	Irregular/Spherical
4100PD3N5DZ	Nb (99.95%)	Customized	Irregular/Spherical
4100PD4NDZ	Nb+Ta (99.99%)	Customized	Irregular

2. Chemical compositions

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

Bottle/Bag.

Double vacuum packed.

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

When using, wear protective equipment to avoid inhalation of dust. Avoid prolonged exposure to air to minimize oxidation risk.

Store in a dry, sealed container to prevent oxidation and moisture absorption.

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