
Technical Data Sheet

Niobium Pentoxide Powder

Product ID: 410800PD001 - 410800PD004

Formular: Nb₂O₅

Molecular weight: 265.81 g/mol

CAS No.: 1313-96-8

EINECS No.: 215-213-6

Color: White

Description: Our niobium pentoxide powder has a typical purity of ≥99% and can be customized with higher purity and different particle sizes as needed. It features excellent chemical stability, a high melting point, and good dielectric properties.

Application: Electronics industry, optical coatings, catalysts, energy materials, ceramics, and glass, etc.

Product

Image:



1. Sizes

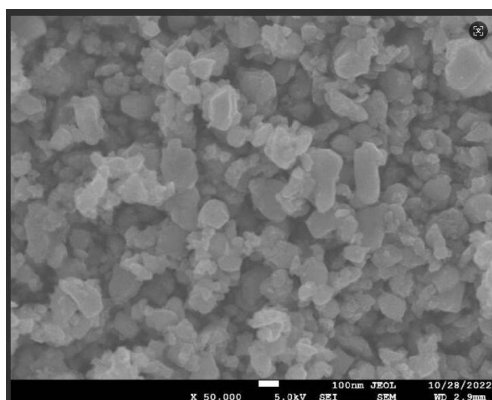
Product ID	Formular	Size
410800PD001	Nb ₂ O ₅ (99%)	< 500nm
410800PD002	Nb ₂ O ₅ (99.9%)	D50< 10μm
410800PD003	Nb ₂ O ₅ (99.99%)	D50< 30μm
410800PD004	Nb ₂ O ₅ (99.995%)	D50< 5μm
410800PD2NDZ	Nb ₂ O ₅ (99%)	Customized
410800PD3NDZ	Nb ₂ O ₅ (99.9%)	Customized
410800PD4NDZ	Nb ₂ O ₅ (99.99%)	Customized
410800PD4N5DZ	Nb ₂ O ₅ (99.995%)	Customized

2. Chemical compositions

Element Typical Value Purity	Metal impurities (ppm)					
	Ta	Al	Fe	Mg	Pb	Si
99%	≤ 1000	≤ 100	≤ 500	≤ 150	≤ 100	≤ 200
99.9%	≤ 500	≤ 20	≤ 200	≤ 50	≤ 30	≤ 50
99.99%	≤ 15	≤ 5	≤ 5	≤ 5	≤ 5	≤ 15
99.995%	≤ 10	≤ 1	≤ 3	≤ 1	≤ 1	≤ 13

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. SEM Image



niobium pentoxide < 500nm SEM

4. Packaging

Bottle/Bag.

Double vacuum packed.

Customized packaging available upon request.

5. 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 moisture and contact with corrosive substances.

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