Tantalum Oxide Granules/Pellets

❖ Product Introduction

Niobium pentoxide (Nb_2O_5) is a high-purity inorganic oxide material with a white or pale yellow crystalline powder appearance. It has a stable crystal structure and good chemical stability. It is insoluble in water and common organic solvents, with a high melting point and excellent thermal stability. The material also exhibits controllable particle size distribution and good dispersibility.

❖ Product Characteristics

1. High purity, uniform particle size and narrow size distribution
2. Excellent thermal stability and stable chemical properties
3. Good dispersibility and controllable particle morphology
4. Insoluble in water and most organic solvents, with strong sintering activity

❖ Product Specifications

Product ID	Formula	Purity	Size
730800GN001	Ta2O5	99.9% (3N)	3 - 12 mm
730800GN002	Ta2O5	99.99% (4N)	3 - 12 mm
730800GN003	Ta2O5	99.99% (4N)	1 - 4 mm
730800PL001	Ta2O5	99.9% (3N)	Ø 8 mm x 4 mm
730800PL002	Ta2O5	99.99% (4N)	Ø 15 mm x 7 mm
730800GN01	Ta2O5	Customized	Customized
730800PL01	Ta2O5	Customized	Customized

Chemical Compositions (Metal impurities, ppm)								
Purity	**Nb**	**Ti**	**Mo**	**Cr**	**Fe**	**Al**	**Si**	**Ca**
99.9%	≤200	≤20	≤20	≤20	≤100	≤20	≤100	≤50
99.99%	≤10	≤5	≤5	≤5	≤20	≤5	≤20	≤5
Purity values are calculated by subtracting the sum of selected measured elemental impurities from 100%. These values do not represent a full elemental analysis.								

❖ Typical Applications

Niobium pentoxide (Nb_2O_5) granules are widely used in dielectric ceramics, optical coating materials, photocatalysts and sputtering target precursors.

❖ Packaging

Outer packaging: carton or fiber drum.
Inner packaging: double vacuum-sealed bags.
Packing specification: 1 kg/bag or 25 kg/drum.
Customized packaging is available upon request.

❖ Storage

During transportation and storage, avoid moisture, contamination and direct sunlight. Keep away from fire sources and corrosive substances. Use the bag as soon as it is opened. The shelf life is no more than 24 months from the production date.

❖ Custom specifications are available, including

- Higher purity
- More sizes and shapes
- Custom colors

❖ Cautions

This product is harmful if swallowed or inhaled, and may cause skin and eye irritation. Inhalation may irritate the respiratory tract; avoid inhalation. We recommend that customers inform us of their intended use before purchasing to ensure proper product use.

Disclaimer

The information provided herein is for reference only and represents typical data, not guaranteed minimum or maximum specification values. It should not be used as a basis for final product design or specific application decisions. All data are subject to change without prior notice.
We make no warranties, express or implied, regarding the accuracy or completeness of the information. Actual properties of individual batches may vary. Users are responsible for verifying the suitability of the product for their specific applications.