Niobium Pentoxide Pellets

❖ Product Introduction

Niobium pentoxide (Nb_2O_5) pellets are high-purity inorganic oxide pellets with a white or pale yellow crystalline appearance. They have a stable crystal structure and good chemical stability. They are insoluble in water and common organic solvents, with a high melting point and excellent thermal stability. The pellets also feature high density and good melt-evaporation performance.

❖ Product Characteristics

1. High purity, high density and uniform microstructure
2. Excellent thermal stability and stable chemical properties
3. Controllable crystal phase and low dust generation
4. Good evaporation consistency and stable vapor composition

❖ Product Specifications

Product ID	Formula	Purity	Size
410800PL001	Nb2O5	99.99%	Ø 10 mm × 8 mm, Black/White
410800PL002	Nb2O5	99.99%	Ø 20 mm × 11 mm, Black/White
410800PLC01	Nb2O5	Customized	Customized

Chemical Compositions (ppm)							
Purity	**Ta**	**Si**	**Cr**	**Al**	**Fe**	**Ti**	**Mn**
99.99%	≤25	≤25	≤5	≤5	≤10	≤5	≤10
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.							

❖ Typical Applications

Niobium pentoxide (Nb_2O_5) pellets are widely used for thermal evaporation coating, electron beam evaporation, optical thin films and dielectric layer deposition.

❖ 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
- Customizable in a wider range of sizes and shapes
- Customizable 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.
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