

Global Tantalum Nitride Powder Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

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Abstracts

According to our (Global Info Research) latest study, the global Tantalum Nitride Powder market size was valued at US\$ 129 million in 2025 and is forecast to a readjusted size of US\$ 258 million by 2032 with a CAGR of 10.4% during review period.

In 2025, global sales of tantalum nitride powder reached 680 tons, with an average selling price of US\$185,000 per ton. Tantalum nitride powder is a high-performance ceramic-metal composite powder material prepared from high-purity tantalum powder through nitriding reaction or plasma process. It has high melting point, high hardness, excellent conductivity and corrosion resistance, and is widely used in semiconductor thin film deposition targets, hard coatings, electronic components, capacitors and aerospace high-temperature structural materials. It can maintain stable performance in high temperature and high corrosion environments and is an important functional material for advanced electronics and high-end manufacturing. The total industry capacity is about 850 tons, with a gross profit margin of 35%-50%. The upstream raw materials mainly include high-purity tantalum powder, nitrogen and high-temperature reaction consumables. Downstream suppliers are mainly semiconductor material manufacturers, target manufacturers and special coating companies. The future development is concentrated in advanced process semiconductor thin film materials, high-temperature functional coatings and high-end electronic devices. Demand is driven by the upgrading of semiconductor manufacturing and the development of high-end equipment. Business opportunities are reflected in the high added value growth space brought about by the domestic substitution of high-purity nano-level powder and the continuous expansion of new electronic materials.

This report is a detailed and comprehensive analysis for global Tantalum Nitride Powder

market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

Key Features:

Global Tantalum Nitride Powder market size and forecasts, in consumption value (\$ Million), sales quantity (Tons), and average selling prices (US\$/Ton), 2021-2032

Global Tantalum Nitride Powder market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (Tons), and average selling prices (US\$/Ton), 2021-2032

Global Tantalum Nitride Powder market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (Tons), and average selling prices (US\$/Ton), 2021-2032

Global Tantalum Nitride Powder market shares of main players, shipments in revenue (\$ Million), sales quantity (Tons), and ASP (US\$/Ton), 2021-2026

The Primary Objectives in This Report Are:

To determine the size of the total market opportunity of global and key countries

To assess the growth potential for Tantalum Nitride Powder

To forecast future growth in each product and end-use market

To assess competitive factors affecting the marketplace

This report profiles key players in the global Tantalum Nitride Powder market based on the following parameters - company overview, sales quantity, revenue, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Princeton Powder, AEM Metal, HEQICHEM, E FORU Materials Inc, FUSHI, DIMU, FUNCMATER, Anhui Fitech

Material Co., Ltd., ATT Advanced Elemental Materials Co.,Ltd., TRUNNANO, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Market Segmentation

Tantalum Nitride Powder market is split by Type and by Application. For the period 2021-2032, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Type

Nanoscale Powder

Submicron/Fine Powder

Micron-scale Powder

Market segment by Crystal Structure

?-TaN (Hexagonal)

?-TaN (Cubic)

Market segment by Purity

Purity: 99.5%

Purity: 99.9%-99.99%

Purity: 99.999%

Market segment by Application

Aerospace

Electronic Components

Others

Major players covered

Princeton Powder

AEM Metal

HEQICHEM

E FORU Materials Inc

FUSHI

DIMU

FUNCMATER

Anhui Fitech Material Co., Ltd.

ATT Advanced Elemental Materials Co.,Ltd.

TRUNNANO

Edgetech Industries LLC

LEDPHOR

Shanghai Xinglu Chemical

Market segment by region, regional analysis covers

North America (United States, Canada, and Mexico)

Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)

Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)

South America (Brazil, Argentina, Colombia, and Rest of South America)

Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

The content of the study subjects, includes a total of 15 chapters:

Chapter 1, to describe Tantalum Nitride Powder product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Tantalum Nitride Powder, with price, sales quantity, revenue, and global market share of Tantalum Nitride Powder from 2021 to 2026.

Chapter 3, the Tantalum Nitride Powder competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Tantalum Nitride Powder breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2021 to 2032.

Chapter 5 and 6, to segment the sales by Type and by Application, with sales market share and growth rate by Type, by Application, from 2021 to 2032.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value, and market share for key countries in the world, from 2021 to 2026. and Tantalum Nitride Powder market forecast, by regions, by Type, and by Application, with sales and revenue, from 2027 to 2032.

Chapter 12, market dynamics, drivers, restraints, trends, and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of Tantalum Nitride Powder.

Chapter 14 and 15, to describe Tantalum Nitride Powder sales channel, distributors, customers, research findings and conclusion.

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