

# Global Medical-grade Titanium Powder and Nickel Titanium Alloy Powder Supply, Demand and Key Producers, 2026-2032

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## Abstracts

The global Medical-grade Titanium Powder and Nickel Titanium Alloy Powder market size is expected to reach \$ 1612 million by 2032, rising at a market growth of 7.3% CAGR during the forecast period (2026-2032).

In 2025, global Medical-grade Titanium Powder and Nickel Titanium Alloy Powder production reached approximately 3,815 tons with an average global market price of around US\$250 per kg. Single-line annual production capacity averages 110 tons with a gross margin of approximately 20.7-22.70%. The upstream of the Medical-grade Titanium Powder and Nickel Titanium Alloy Powder industry is focused on the preparation of high-purity titanium and nickel-titanium alloy materials. The downstream applications mainly include dental prosthetics (20%), prosthetics (30%), heart stents (15%), orthopedic repair devices (25%), orthopedic implants (10%), and organ models (10%). The demand lies in the utilization of the excellent biocompatibility and mechanical properties of titanium alloys, and the implementation of 3D printing technology to achieve personalized and precise customization of implants such as bones and joints, in response to the growing needs brought about by an aging population and precision medicine. The business opportunity lies in breaking through the technical bottlenecks of  $\beta$ -type titanium alloy powder and ultra-high purity nickel-titanium alloy powder preparation, and establishing an integrated database from powder characteristics to printing process and intelligent process control solutions, in order to fill the gap in high-end materials domestically and improve the performance of terminal implants.

Medical-grade Titanium Powder and Nickel Titanium Alloy Powder are specialized materials meticulously formulated to meet stringent purity and biocompatibility standards, essential for their use in medical applications. These powders are designed to ensure minimal allergic reactions and tissue rejection, offering a high degree of

biocompatibility and corrosion resistance. They possess a fine particle size and controlled composition, which are critical for the precise fabrication of medical devices and implants, ensuring robustness, durability, and optimal performance in the human body.

In the future, the Medical-grade Titanium Powder and Nickel Titanium Alloy Powder industry will focus on enhancing material properties to accommodate the demands of personalized customization and complex medical implants. Simultaneously, there will be an emphasis on researching biocompatibility and integrating nanotechnology to improve material characteristics. The industry will prioritize quality control and standardization, promote environmentally friendly and sustainable production processes, and expand into global markets. Moreover, through interdisciplinary integration and innovation, as well as cost control and efficiency improvements, medical-grade powders will evolve towards higher efficiency, safety, and personalization, while adhering to the updates of regulatory regulations and the enhancement of industry standards.

This report studies the global Medical-grade Titanium Powder and Nickel Titanium Alloy Powder production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Medical-grade Titanium Powder and Nickel Titanium Alloy Powder and provides market size (US\$ million) and Year-over-Year (YoY) Growth, considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of Medical-grade Titanium Powder and Nickel Titanium Alloy Powder that contribute to its increasing demand across many markets.

### **Highlights and key features of the study**

Global Medical-grade Titanium Powder and Nickel Titanium Alloy Powder total production and demand, 2021-2032, (MT)

Global Medical-grade Titanium Powder and Nickel Titanium Alloy Powder total production value, 2021-2032, (USD Million)

Global Medical-grade Titanium Powder and Nickel Titanium Alloy Powder production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (MT), (based on production site)

Global Medical-grade Titanium Powder and Nickel Titanium Alloy Powder consumption by region & country, CAGR, 2021-2032 & (MT)

U.S. VS China: Medical-grade Titanium Powder and Nickel Titanium Alloy Powder domestic production, consumption, key domestic manufacturers and share

Global Medical-grade Titanium Powder and Nickel Titanium Alloy Powder production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (MT)

Global Medical-grade Titanium Powder and Nickel Titanium Alloy Powder production by Type, production, value, CAGR, 2021-2032, (USD Million) & (MT)

Global Medical-grade Titanium Powder and Nickel Titanium Alloy Powder production by Application, production, value, CAGR, 2021-2032, (USD Million) & (MT)

This report profiles key players in the global Medical-grade Titanium Powder and Nickel Titanium Alloy Powder market based on the following parameters - company overview, production, value, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include American Elements, Sandvik AB, Tekna, Sigma-Aldrich, AMETEK, Allegheny Technologies Incorporated (ATI), Zapp Group, AEM Deposition, Linde AMT, Toho Titanium, etc. This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World Medical-grade Titanium Powder and Nickel Titanium Alloy Powder market

**Detailed Segmentation:**

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (MT) and average price (K US\$/Ton) by manufacturer, by Type, and by Application. Data is given for the years 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

Global Medical-grade Titanium Powder and Nickel Titanium Alloy Powder Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Medical-grade Titanium Powder and Nickel Titanium Alloy Powder Market,  
Segmentation by Type:

? + ? Titanium Alloy:Ti 6Al-4V?Ti-15Zr-4Nb\_4ta-0.2Pd?Ti-15Zr-4Nb-  
aTa-0.2Pd-0.20~0.05N?Ti-15Sn-4Nb-2Ta-0.2Pd?Ti-15Sn-4nb-2Ta-0.2Pd-0.20

? Titanium Alloy:TMZFMTM (Ti-12Mo- ^ Zr-2Fe),Ti-13Nb-13Zr,Timetal 21SRx  
(Ti-15Mo-2.5Nb-0.2Si) Tiadyne 1610 (Ti-16Nb-9.5Hf) And Ti-15Mo

Global Medical-grade Titanium Powder and Nickel Titanium Alloy Powder Market,  
Segmentation by Powder Specification:

Customized Powder

Regular Powder

Global Medical-grade Titanium Powder and Nickel Titanium Alloy Powder Market,  
Segmentation by Particle Size:

?100?m

100?m?Particle Sizes?150?m

Global Medical-grade Titanium Powder and Nickel Titanium Alloy Powder Market,  
Segmentation by Application:

False Teeth

Prosthesis

Cardiac Stent

Orthopedic Prosthesis

Orthopaedic Implants

Organ Model

**Companies Profiled:**

American Elements

Sandvik AB

Tekna

Sigma-Aldrich

AMETEK

Allegheny Technologies Incorporated (ATI)

Zapp Group

AEM Deposition

Linde AMT

Toho Titanium

Stanford Materials (SMC)

Heeger Metal

OSAKA Titanium

Medicoat

6K

Xi'an Triad Materials

Baoji Titanium Industry

Northwest Institute for Non-ferrous Metal research

**Key Questions Answered:**

1. How big is the global Medical-grade Titanium Powder and Nickel Titanium Alloy Powder market?
2. What is the demand of the global Medical-grade Titanium Powder and Nickel Titanium Alloy Powder market?
3. What is the year over year growth of the global Medical-grade Titanium Powder and Nickel Titanium Alloy Powder market?
4. What is the production and production value of the global Medical-grade Titanium Powder and Nickel Titanium Alloy Powder market?
5. Who are the key producers in the global Medical-grade Titanium Powder and Nickel Titanium Alloy Powder market?
6. What are the growth factors driving the market demand?

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Figure 69. Medical-grade Titanium Powder and Nickel Titanium Alloy Powder Sales Channels, Direct Sales, and Distribution

Figure 70. Methodology

Figure 71. Research Process and Data Source

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