

Global Porous Tantalum Metal Rod Market 2025 by Manufacturers, Regions, Type and Application, Forecast to 2031

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Abstracts

According to our (Global Info Research) latest study, the global Porous Tantalum Metal Rod market size was valued at US\$ 174 million in 2024 and is forecast to a readjusted size of USD 274 million by 2031 with a CAGR of 6.7% during review period.

In this report, we will assess the current U.S. tariff framework alongside international policy adaptations, analyzing their effects on competitive market structures, regional economic dynamics, and supply chain resilience.

Porous tantalum metal rod is a metal support similar to trabecular bone structure. It is made of porous tantalum metal and has special physical and biological properties. It plays an important role in orthopedic treatment, especially in the treatment of early femoral head necrosis. The porosity of porous tantalum metal rod is usually 75% - 80%, and the average pore size is about 430 μ m. This porous structure makes its elastic modulus close to that of human cancellous bone, which can effectively reduce the stress shielding effect. Its internal interconnected pore structure provides a three-dimensional space for bone tissue growth. Experiments show that soft tissue can grow 1cm in 4 weeks after implantation and 2.3cm in 16 weeks, while promoting the vascularization process. In orthopedic applications, the metal rod is implanted in the necrotic area of the femoral head through minimally invasive surgery, which can provide immediate mechanical support to prevent collapse and guide new bone formation through osteoconductivity. It has excellent biocompatibility, and osteoblasts can adhere, proliferate and differentiate to form trabecular bone structure. Clinical studies have shown that the Harris hip score increased by an average of 127.9% after surgery, significantly improving the functional status of patients. This implant achieves mechanical matching with bone tissue through a special manufacturing process, and its

friction coefficient of 0.98 ensures long-term stability after implantation. Compared with traditional materials, porous tantalum metal rods have significant advantages in bioactivity, bone integration efficiency and mechanical properties, and have become an innovative solution for the treatment of early femoral head necrosis.

This report is a detailed and comprehensive analysis for global Porous Tantalum Metal Rod 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 Porous Tantalum Metal Rod market size and forecasts, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2020-2031

Global Porous Tantalum Metal Rod market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2020-2031

Global Porous Tantalum Metal Rod market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (K Units), and average selling prices (US\$/Unit), 2020-2031

Global Porous Tantalum Metal Rod market shares of main players, shipments in revenue (\$ Million), sales quantity (K Units), and ASP (US\$/Unit), 2020-2025

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 Porous Tantalum Metal Rod
- 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 Porous Tantalum Metal Rod 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 H.C. Starck, Plansee, Admat, Edgetech Industries, American Elements, Goodfellow, Ningxia Dongfang Tantalum Industry, Baoji Titanium Industry, Changsha Zhongnan Kaida, Chongqing Runze Pharmaceutical, etc.

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

Market Segmentation

Porous Tantalum Metal Rod market is split by Type and by Application. For the period 2020-2031, 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

Standardization

Customization

Market segment by Application

Orthopedic Implants

Dental Implants

Spinal Fusion Cages

Other

Major players covered

H.C. Starck

Plansee

Admat

Edgetech Industries

American Elements

Goodfellow

Ningxia Dongfang Tantalum Industry

Baoji Titanium Industry

Changsha Zhongnan Kaida

Chongqing Runze Pharmaceutical

Baoji Yusheng Metal Technology

Changsha Nanfang Tantalum Niobium

Qiheng Nonferrous (Luoyang) New Materials

Shaanxi Xinbaoying Metal Materials

Shaanxi Youchuang Metals

Shaanxi Zhongheng Weichuang Metal Materials

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 Porous Tantalum Metal Rod product scope, market overview,

market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Porous Tantalum Metal Rod, with price, sales quantity, revenue, and global market share of Porous Tantalum Metal Rod from 2020 to 2025.

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

Chapter 4, the Porous Tantalum Metal Rod breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2020 to 2031.

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 2020 to 2031.

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 2020 to 2025. and Porous Tantalum Metal Rod market forecast, by regions, by Type, and by Application, with sales and revenue, from 2026 to 2031.

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 Porous Tantalum Metal Rod.

Chapter 14 and 15, to describe Porous Tantalum Metal Rod sales channel, distributors, customers, research findings and conclusion.

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