

# Global TZM Alloy Piercing Plug Market Growth 2026-2032

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## Abstracts

The global TZM Alloy Piercing Plug market size is predicted to grow from US\$ 34.63 million in 2025 to US\$ 48.97 million in 2032; it is expected to grow at a CAGR of 5.0% from 2026 to 2032.

TZM Alloy Piercing Plug (Titanium-Zirconium-Molybdenum) is a high-performance refractory metal tool, commonly referred to as a molybdenum alloy plug or moly plug, used in the hot piercing of seamless stainless steel and high-alloy tubes. These plugs are characterized by exceptional high-temperature strength, thermal shock resistance, and creep resistance at temperatures between 1000°C and 1200°C.

In 2025, the global Molybdenum Piercing Plug production reached 393 tons, with an average selling price of \$90 per kilogram. Total production capacity stood at approximately 500 tons, and the industry's gross profit margin ranged from 20% to 30%. Regarding the cost structure: direct materials accounted for approximately 70%, manufacturing overhead for about 22%, and labor costs for roughly 8%. In terms of the industry chain, the upstream segment comprises molybdenum mining as well as the manufacturing of molybdenum powder and alloys, while the downstream segment is primarily utilized in the piercing process for seamless steel pipes.

Since ordinary carbon steel seamless tubes may use steel plugs or coated plug solutions, molybdenum alloy piercing plugs are mainly used in stainless steel, alloy steel, bearing steel, and high-temperature alloy tube production.

From the supply-side perspective, the global industry is structured around a small number of high-end refractory metal groups, a broader cluster of Chinese tungsten-molybdenum fabricators, and several international specialty-material suppliers. Europe

is represented by high-end molybdenum and tungsten processing capabilities, with a stronger position in customized and higher-specification applications. China has developed a broader supplier base supported by molybdenum resources, powder metallurgy know-how, and regional tungsten-molybdenum processing clusters, especially in areas such as Shaanxi, Henan, and Baoji.

LP Information, Inc. (LPI) ' newest research report, the "TZM Alloy Piercing Plug Industry Forecast" looks at past sales and reviews total world TZM Alloy Piercing Plug sales in 2025, providing a comprehensive analysis by region and market sector of projected TZM Alloy Piercing Plug sales for 2026 through 2032. With TZM Alloy Piercing Plug sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world TZM Alloy Piercing Plug industry.

This Insight Report provides a comprehensive analysis of the global TZM Alloy Piercing Plug landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyzes the strategies of leading global companies with a focus on TZM Alloy Piercing Plug portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global TZM Alloy Piercing Plug market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for TZM Alloy Piercing Plug and breaks down the forecast by Diameter, by Application, geography, and market size to highlight emerging pockets of opportunity. With a transparent methodology based on hundreds of bottom-up qualitative and quantitative market inputs, this study forecast offers a highly nuanced view of the current state and future trajectory in the global TZM Alloy Piercing Plug.

This report presents a comprehensive overview, market shares, and growth opportunities of TZM Alloy Piercing Plug market by product type, application, key manufacturers and key regions and countries.

Segmentation by Diameter:

Diameter 80mm

Segmentation by Type:

Type A

Type B

Segmentation by Application:

Oil & Gas

Chemical

Machinery

Aerospace

Others

This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

APAC

China

Japan

Korea

Southeast Asia

India

Australia

Europe

Germany

France

UK

Italy

Russia

Middle East & Africa

Egypt

South Africa

Israel

Turkey

GCC Countries

The below companies that are profiled have been selected based on inputs gathered from primary experts and analysing the company's coverage, product portfolio, its market penetration.

Plansee SE

Elmet Technologies

Jinduicheng Molybdenum

Stanford Advanced Materials

Liaoning Tianqiao New Material Technology

Fonlink Photoelectric

Luoyang A.K.M. Tungsten & Molybdenum Technology

#### Key Questions Addressed in this Report

What is the 10-year outlook for the global TZM Alloy Piercing Plug market?

What factors are driving TZM Alloy Piercing Plug market growth, globally and by region?

Which technologies are poised for the fastest growth by market and region?

How do TZM Alloy Piercing Plug market opportunities vary by end market size?

How does TZM Alloy Piercing Plug break out by Diameter, by Application?

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