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Global Thorium Tungsten Electrode Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Thorium Tungsten Electrode market size is expected to reach $ 30.64 million by 2032, rising at a market growth of 1.3% CAGR during the forecast period (2026-2032).

Thorium tungsten electrodes are a type of tungsten-based electrode material made by using tungsten (W) as the matrix and adding thorium oxide as a dopant. They are primarily manufactured via powder metallurgy: high-purity tungsten powder is mixed with a specific proportion of thorium oxide powder, followed by pressing, sintering, swaging, drawing, and grinding to produce electrodes with stable dimensions and excellent high-temperature performance. In 2025, the global sales volume of thorium tungsten electrodes reached 720 tons, with a production capacity of 960 tons; the average selling price was $37 per kilogram, and the average gross profit margin ranged from 25% to 35%. Due to the low electron work function of thorium oxide, its addition enhances the tungsten electrode's electron emission capability, arc stability, arc-starting performance, and current-carrying capacity. Consequently, thoriated tungsten electrodes have long been among the most widely used types of electrodes for Tungsten Inert Gas (TIG/GTAW) welding; they are particularly suitable for DC welding and enable high-quality welding of materials such as stainless steel, carbon steel, nickel-based alloys, and titanium alloys.

The technological development of thorium tungsten electrodes has primarily focused on optimizing oxide doping ratios, enhancing material uniformity, and developing alternative materials. Conventional tungsten electrodes are typically manufactured by mixing tungsten powder with thorium oxide and subjecting the mixture to powder metallurgy, sintering, swaging, and drawing processes; WT20 (containing approximately 2% thorium oxide) is the most widely used grade. Thorium oxide lowers the electron

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work function and enhances electron emission, resulting in superior arc-starting characteristics and arc stability. However, due to the radioactive nature of thorium oxide, the industry is shifting toward thorium-free alternatives. Currently, lanthanated (La?O?), ceriated (CeO?), and composite rare-earth tungsten electrodes have emerged as the primary substitutes, utilizing rare-earth oxide doping to achieve welding performance that rivals or even surpasses that of thoriated electrodes.

As global environmental regulations and occupational health and safety standards become increasingly stringent, the management of radioactive elements in thorium tungsten electrodes has drawn greater attention. Mature markets—including Europe, the United States, and Japan—are progressively restricting the use of thorium-containing materials in welding consumables and promoting the adoption of thorium-free tungsten electrodes. Meanwhile, as a vital strategic metal, tungsten has been incorporated into the critical mineral management frameworks of numerous nations, highlighting the importance of supply security and industrial chain stability. Leveraging its abundant tungsten resources and comprehensive processing infrastructure, China maintains a pivotal position in the global tungsten electrode supply chain; however, domestic enterprises are increasingly investing in the R&D of thorium-free rare-earth tungsten electrodes, high-performance welding materials, and deep-processed products to adapt to evolving international market demands.

Report Scope

This report studies the global Thorium Tungsten Electrode production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Thorium Tungsten Electrode 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 Thorium Tungsten Electrode that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Thorium Tungsten Electrode total production and demand, 2021-2032, (Tons)

Global Thorium Tungsten Electrode total production value, 2021-2032, (USD Million)

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Global Thorium Tungsten Electrode production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Tons), (based on production site)

Global Thorium Tungsten Electrode consumption by region & country, CAGR, 2021-2032 & (Tons)

U.S. VS China: Thorium Tungsten Electrode domestic production, consumption, key domestic manufacturers and share

Global Thorium Tungsten Electrode production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Tons)

Global Thorium Tungsten Electrode production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Tons)

Global Thorium Tungsten Electrode production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Tons)

This report profiles key players in the global Thorium Tungsten Electrode 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 Plansee Group, Wolfram Industrie GmbH, Weldstone GmbH, Diamond Ground Products, BOC Limited, Huntingdon Fusion Techniques, Beiwu New Materials, Nippon Tungsten, Elmet Technologies LLC, R-Tech Welding, 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 Thorium Tungsten Electrode market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US$ Millions), volume (production, consumption) & (Tons) and average price (US$/kg) by manufacturer, by Type, and by Application. Data is given for the years 2021-2032 by

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year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

Global Thorium Tungsten Electrode Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Thorium Tungsten Electrode Market, Segmentation by Type:

2mm Below

2mm - 3mm

3mm Above

Global Thorium Tungsten Electrode Market, Segmentation by Welding Current:

DC Type

AC Type

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Global Thorium Tungsten Electrode Market, Segmentation by Thorium Oxide Content:

WT10?1% ThO??

WT20?2% ThO??

WT30?3% ThO??

Global Thorium Tungsten Electrode Market, Segmentation by Application:

Plasma Welding

Argon Arc Welding

Cutting

Others

Companies Profiled:

Plansee Group

Wolfram Industrie GmbH

Weldstone GmbH

Diamond Ground Products

BOC Limited

Huntingdon Fusion Techniques

Beiwu New Materials

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Nippon Tungsten

Elmet Technologies LLC

R-Tech Welding

Wanqitaibao

Antai Tianlong Tungsten & Molybdenum Technology

CK Worldwide

Quality Tempered Tungsten

Huarui Tungsten & Molybdenum Technology

Jinduicheng Molybdenum Industry

Zhongtung Intelligent Manufacturing

UNIMIG

Linde Welding

Key Questions Answered:

1. How big is the global Thorium Tungsten Electrode market?
2. What is the demand of the global Thorium Tungsten Electrode market?
3. What is the year over year growth of the global Thorium Tungsten Electrode market?
4. What is the production and production value of the global Thorium Tungsten Electrode market?
5. Who are the key producers in the global Thorium Tungsten Electrode market?
6. What are the growth factors driving the market demand?

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