

Global Tungsten Electrode Market Growth 2026-2032

<https://marketpublishers.com/r/G5667E9DE3CEN.html>

Date: October 2026

Pages: 142

Price: US\$ 3,660.00 (Single User License)

ID: G5667E9DE3CEN

Abstracts

The global Tungsten Electrode market size is predicted to grow from US\$ 103 million in 2025 to US\$ 117 million in 2032; it is expected to grow at a CAGR of 1.9% from 2026 to 2032.

Tungsten electrodes are used when arc welding with the Tungsten Inert gas (TIG) process or when plasma welding. In both processes the electrode, arc and weld pool are protected from atmospheric contamination by an inert gas. A tungsten electrode is used because it can withstand very high temperatures with minimal melting or erosion. Tungsten electrodes are made by powder metallurgy and are formed to size after sintering. In 2025, global sales volume of tungsten electrodes is 3,058 tons, with a production capacity of approximately 4,000 tons, an average selling price of \$34.5 per kilogram, and an average gross margin of 25%–35%.

The technological development of tungsten electrodes focuses primarily on doping-based modification, the shift toward thorium-free alternatives, and upgrades for high-performance applications. While traditional thoriated tungsten electrodes have long been used in TIG welding due to their excellent electron emission properties and arc stability, the market has increasingly shifted toward thorium-free products in recent years to avoid the regulatory requirements associated with the radioactivity of thorium oxide. Lanthanated, ceriated, and composite rare-earth tungsten electrodes have emerged as the primary alternatives; the addition of rare-earth oxides—such as La_2O_3 , CeO_2 , and Y_2O_3 —lowers the electron work function, thereby improving arc-starting performance, current-carrying capacity, and service life. Meanwhile, manufacturers are continuously optimizing processes such as powder metallurgy, sintering, swaging, drawing, and precision grinding to enhance dimensional accuracy, microstructural uniformity, and high-temperature stability, driving the industry toward high-end and customized products.

As a vital strategic metal, tungsten is listed as a critical mineral by numerous countries and regions, making the security of its global supply chain a matter of significant concern. Given China's substantial market share in both tungsten resource supply and processing, regions such as Europe, the United States, and Japan have recently intensified efforts to secure tungsten supplies, diversify supply chains, and promote resource recycling. Concurrently, environmental regulations and occupational health standards are driving the welding industry to reduce its reliance on radioactive thoriated tungsten electrodes and accelerate the adoption of thorium-free, rare-earth tungsten electrodes. Furthermore, the green transformation and automation of the manufacturing sector, alongside the growth of the high-end equipment industry, are compelling tungsten electrode manufacturers to improve material utilization efficiency, production automation, and product reliability.

Report Scope

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

This Insight Report provides a comprehensive analysis of the global Tungsten Electrode 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 Tungsten Electrode portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Tungsten Electrode market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Tungsten Electrode and breaks down the forecast by Type, 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 Tungsten Electrode.

This report presents a comprehensive overview, market shares, and growth opportunities of Tungsten Electrode market by product type, application, key

manufacturers and key regions and countries.

Segmentation by Type:

Pure Tungsten

Thoriated Tungsten

Lanthanum Tungsten

Cerium Tungsten

Yttrium Tungsten

Others

Segmentation by Welding Current:

AC Tungsten Electrode

DC Tungsten Electrode

Segmentation by Diameter:

0.5–1 mm

1–3.2 mm

3.2–6.4 mm

Segmentation by Application:

TIG Welding

Plasma Welding

Cutting

Thermal Spray

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 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

Wanqitaibao

Antai Tianlong Tungsten & Molybdenum Technology

CK Worldwide

Quality Tempered Tungsten

Xiamen Honglu Tungsten Molybdenum Industry

Luoyang Science New Materials

Zhongtung Intelligent Manufacturing

Maiteng Metal

Key Questions Addressed in this Report

What is the 10-year outlook for the global Tungsten Electrode market?

What factors are driving Tungsten Electrode market growth, globally and by region?

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

How do Tungsten Electrode market opportunities vary by end market size?

How does Tungsten Electrode break out by Type, by Application?

Contents

1 SCOPE OF THE REPORT

- 1.1 Market Introduction
- 1.2 Years Considered
- 1.3 Research Objectives
- 1.4 Market Research Methodology
- 1.5 Research Process and Data Source
- 1.6 Economic Indicators
- 1.7 Currency Considered
- 1.8 Market Estimation Caveats

2 EXECUTIVE SUMMARY

- 2.1 World Market Overview
 - 2.1.1 Global Tungsten Electrode Annual Sales 2021-2032
 - 2.1.2 World Current & Future Analysis for Tungsten Electrode by Geographic Region, 2021, 2025 & 2032
 - 2.1.3 World Current & Future Analysis for Tungsten Electrode by Country/Region, 2021, 2025 & 2032
- 2.2 Tungsten Electrode Segment by Type
 - 2.2.1 Pure Tungsten
 - 2.2.2 Thoriated Tungsten
 - 2.2.3 Lanthanum Tungsten
 - 2.2.4 Cerium Tungsten
 - 2.2.5 Yttrium Tungsten
 - 2.2.6 Others
 - 2.2.7 Tungsten Electrode Sales by Type
 - 2.2.7.1 Global Tungsten Electrode Sales Market Share by Type (2021-2026)
 - 2.2.7.2 Global Tungsten Electrode Revenue and Market Share by Type (2021-2026)
 - 2.2.7.3 Global Tungsten Electrode Sale Price by Type (2021-2026)
- 2.3 Tungsten Electrode Segment by Welding Current
 - 2.3.1 AC Tungsten Electrode
 - 2.3.2 DC Tungsten Electrode
 - 2.3.3 Tungsten Electrode Sales by Welding Current
 - 2.3.3.1 Global Tungsten Electrode Sales Market Share by Welding Current (2021-2026)
 - 2.3.3.2 Global Tungsten Electrode Revenue and Market Share by Welding Current

(2021-2026)

2.3.3.3 Global Tungsten Electrode Sale Price by Welding Current (2021-2026)

2.4 Tungsten Electrode Segment by Diameter

2.4.1 0.5–1 mm

2.4.2 1–3.2 mm

2.4.3 3.2–6.4 mm

2.4.4 Tungsten Electrode Sales by Diameter

2.4.4.1 Global Tungsten Electrode Sales Market Share by Diameter (2021-2026)

2.4.4.2 Global Tungsten Electrode Revenue and Market Share by Diameter

(2021-2026)

2.4.4.3 Global Tungsten Electrode Sale Price by Diameter (2021-2026)

2.5 Tungsten Electrode Segment by Application

2.5.1 TIG Welding

2.5.2 Plasma Welding

2.5.3 Cutting

2.5.4 Thermal Spray

2.5.5 Others

2.5.6 Tungsten Electrode Sales by Application

2.5.6.1 Global Tungsten Electrode Sale Market Share by Application (2021-2026)

2.5.6.2 Global Tungsten Electrode Revenue and Market Share by Application

(2021-2026)

2.5.6.3 Global Tungsten Electrode Sale Price by Application (2021-2026)

3 GLOBAL BY COMPANY

3.1 Global Tungsten Electrode Breakdown Data by Company

3.1.1 Global Tungsten Electrode Annual Sales by Company (2021-2026)

3.1.2 Global Tungsten Electrode Sales Market Share by Company (2021-2026)

3.2 Global Tungsten Electrode Annual Revenue by Company (2021-2026)

3.2.1 Global Tungsten Electrode Revenue by Company (2021-2026)

3.2.2 Global Tungsten Electrode Revenue Market Share by Company (2021-2026)

3.3 Global Tungsten Electrode Sale Price by Company

3.4 Key Manufacturers Tungsten Electrode Producing Area Distribution, Sales Area, Product Type

3.4.1 Key Manufacturers Tungsten Electrode Product Location Distribution

3.4.2 Players Tungsten Electrode Products Offered

3.5 Market Concentration Rate Analysis

3.5.1 Competition Landscape Analysis

3.5.2 Concentration Ratio (CR3, CR5 and CR10) & (2024-2026)

3.6 New Products and Potential Entrants

3.7 Market M&A Activity & Strategy

4 WORLD HISTORIC REVIEW FOR TUNGSTEN ELECTRODE BY GEOGRAPHIC REGION

4.1 World Historic Tungsten Electrode Market Size by Geographic Region (2021-2026)

4.1.1 Global Tungsten Electrode Annual Sales by Geographic Region (2021-2026)

4.1.2 Global Tungsten Electrode Annual Revenue by Geographic Region (2021-2026)

4.2 World Historic Tungsten Electrode Market Size by Country/Region (2021-2026)

4.2.1 Global Tungsten Electrode Annual Sales by Country/Region (2021-2026)

4.2.2 Global Tungsten Electrode Annual Revenue by Country/Region (2021-2026)

4.3 Americas Tungsten Electrode Sales Growth

4.4 APAC Tungsten Electrode Sales Growth

4.5 Europe Tungsten Electrode Sales Growth

4.6 Middle East & Africa Tungsten Electrode Sales Growth

5 AMERICAS

5.1 Americas Tungsten Electrode Sales by Country

5.1.1 Americas Tungsten Electrode Sales by Country (2021-2026)

5.1.2 Americas Tungsten Electrode Revenue by Country (2021-2026)

5.2 Americas Tungsten Electrode Sales by Type (2021-2026)

5.3 Americas Tungsten Electrode Sales by Application (2021-2026)

5.4 United States

5.5 Canada

5.6 Mexico

5.7 Brazil

6 APAC

6.1 APAC Tungsten Electrode Sales by Region

6.1.1 APAC Tungsten Electrode Sales by Region (2021-2026)

6.1.2 APAC Tungsten Electrode Revenue by Region (2021-2026)

6.2 APAC Tungsten Electrode Sales by Type (2021-2026)

6.3 APAC Tungsten Electrode Sales by Application (2021-2026)

6.4 China

6.5 Japan

6.6 South Korea

6.7 Southeast Asia

6.8 India

6.9 Australia

6.10 China Taiwan

7 EUROPE

7.1 Europe Tungsten Electrode by Country

7.1.1 Europe Tungsten Electrode Sales by Country (2021-2026)

7.1.2 Europe Tungsten Electrode Revenue by Country (2021-2026)

7.2 Europe Tungsten Electrode Sales by Type (2021-2026)

7.3 Europe Tungsten Electrode Sales by Application (2021-2026)

7.4 Germany

7.5 France

7.6 UK

7.7 Italy

7.8 Russia

8 MIDDLE EAST & AFRICA

8.1 Middle East & Africa Tungsten Electrode by Country

8.1.1 Middle East & Africa Tungsten Electrode Sales by Country (2021-2026)

8.1.2 Middle East & Africa Tungsten Electrode Revenue by Country (2021-2026)

8.2 Middle East & Africa Tungsten Electrode Sales by Type (2021-2026)

8.3 Middle East & Africa Tungsten Electrode Sales by Application (2021-2026)

8.4 Egypt

8.5 South Africa

8.6 Israel

8.7 Turkey

8.8 GCC Countries

9 MARKET DRIVERS, CHALLENGES AND TRENDS

9.1 Market Drivers & Growth Opportunities

9.2 Market Challenges & Risks

9.3 Industry Trends

10 MANUFACTURING COST STRUCTURE ANALYSIS

- 10.1 Raw Material and Suppliers
- 10.2 Manufacturing Cost Structure Analysis of Tungsten Electrode
- 10.3 Manufacturing Process Analysis of Tungsten Electrode
- 10.4 Industry Chain Structure of Tungsten Electrode

11 MARKETING, DISTRIBUTORS AND CUSTOMER

- 11.1 Sales Channel
 - 11.1.1 Direct Channels
 - 11.1.2 Indirect Channels
- 11.2 Tungsten Electrode Distributors
- 11.3 Tungsten Electrode Customer

12 WORLD FORECAST REVIEW FOR TUNGSTEN ELECTRODE BY GEOGRAPHIC REGION

- 12.1 Global Tungsten Electrode Market Size Forecast by Region
 - 12.1.1 Global Tungsten Electrode Forecast by Region (2027-2032)
 - 12.1.2 Global Tungsten Electrode Annual Revenue Forecast by Region (2027-2032)
- 12.2 Americas Forecast by Country (2027-2032)
- 12.3 APAC Forecast by Region (2027-2032)
- 12.4 Europe Forecast by Country (2027-2032)
- 12.5 Middle East & Africa Forecast by Country (2027-2032)
- 12.6 Global Tungsten Electrode Forecast by Type (2027-2032)
- 12.7 Global Tungsten Electrode Forecast by Application (2027-2032)

13 KEY PLAYERS ANALYSIS

- 13.1 Plansee Group
 - 13.1.1 Plansee Group Company Information
 - 13.1.2 Plansee Group Tungsten Electrode Product Portfolios and Specifications
 - 13.1.3 Plansee Group Tungsten Electrode Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.1.4 Plansee Group Main Business Overview
 - 13.1.5 Plansee Group Latest Developments
- 13.2 Wolfram Industrie GmbH
 - 13.2.1 Wolfram Industrie GmbH Company Information
 - 13.2.2 Wolfram Industrie GmbH Tungsten Electrode Product Portfolios and Specifications

13.2.3 Wolfram Industrie GmbH Tungsten Electrode Sales, Revenue, Price and Gross Margin (2021-2026)

13.2.4 Wolfram Industrie GmbH Main Business Overview

13.2.5 Wolfram Industrie GmbH Latest Developments

13.3 Weldstone GmbH

13.3.1 Weldstone GmbH Company Information

13.3.2 Weldstone GmbH Tungsten Electrode Product Portfolios and Specifications

13.3.3 Weldstone GmbH Tungsten Electrode Sales, Revenue, Price and Gross Margin (2021-2026)

13.3.4 Weldstone GmbH Main Business Overview

13.3.5 Weldstone GmbH Latest Developments

13.4 Diamond Ground Products

13.4.1 Diamond Ground Products Company Information

13.4.2 Diamond Ground Products Tungsten Electrode Product Portfolios and Specifications

13.4.3 Diamond Ground Products Tungsten Electrode Sales, Revenue, Price and Gross Margin (2021-2026)

13.4.4 Diamond Ground Products Main Business Overview

13.4.5 Diamond Ground Products Latest Developments

13.5 BOC Limited

13.5.1 BOC Limited Company Information

13.5.2 BOC Limited Tungsten Electrode Product Portfolios and Specifications

13.5.3 BOC Limited Tungsten Electrode Sales, Revenue, Price and Gross Margin (2021-2026)

13.5.4 BOC Limited Main Business Overview

13.5.5 BOC Limited Latest Developments

13.6 Huntingdon Fusion Techniques

13.6.1 Huntingdon Fusion Techniques Company Information

13.6.2 Huntingdon Fusion Techniques Tungsten Electrode Product Portfolios and Specifications

13.6.3 Huntingdon Fusion Techniques Tungsten Electrode Sales, Revenue, Price and Gross Margin (2021-2026)

13.6.4 Huntingdon Fusion Techniques Main Business Overview

13.6.5 Huntingdon Fusion Techniques Latest Developments

13.7 Beiwu New Materials

13.7.1 Beiwu New Materials Company Information

13.7.2 Beiwu New Materials Tungsten Electrode Product Portfolios and Specifications

13.7.3 Beiwu New Materials Tungsten Electrode Sales, Revenue, Price and Gross Margin (2021-2026)

- 13.7.4 Beiwu New Materials Main Business Overview
- 13.7.5 Beiwu New Materials Latest Developments
- 13.8 Nippon Tungsten
 - 13.8.1 Nippon Tungsten Company Information
 - 13.8.2 Nippon Tungsten Tungsten Electrode Product Portfolios and Specifications
 - 13.8.3 Nippon Tungsten Tungsten Electrode Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.8.4 Nippon Tungsten Main Business Overview
 - 13.8.5 Nippon Tungsten Latest Developments
- 13.9 Elmet Technologies LLC
 - 13.9.1 Elmet Technologies LLC Company Information
 - 13.9.2 Elmet Technologies LLC Tungsten Electrode Product Portfolios and Specifications
 - 13.9.3 Elmet Technologies LLC Tungsten Electrode Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.9.4 Elmet Technologies LLC Main Business Overview
 - 13.9.5 Elmet Technologies LLC Latest Developments
- 13.10 R-Tech Welding
 - 13.10.1 R-Tech Welding Company Information
 - 13.10.2 R-Tech Welding Tungsten Electrode Product Portfolios and Specifications
 - 13.10.3 R-Tech Welding Tungsten Electrode Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.10.4 R-Tech Welding Main Business Overview
 - 13.10.5 R-Tech Welding Latest Developments
- 13.11 Wanqitaibao
 - 13.11.1 Wanqitaibao Company Information
 - 13.11.2 Wanqitaibao Tungsten Electrode Product Portfolios and Specifications
 - 13.11.3 Wanqitaibao Tungsten Electrode Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.11.4 Wanqitaibao Main Business Overview
 - 13.11.5 Wanqitaibao Latest Developments
- 13.12 Antai Tianlong Tungsten & Molybdenum Technology
 - 13.12.1 Antai Tianlong Tungsten & Molybdenum Technology Company Information
 - 13.12.2 Antai Tianlong Tungsten & Molybdenum Technology Tungsten Electrode Product Portfolios and Specifications
 - 13.12.3 Antai Tianlong Tungsten & Molybdenum Technology Tungsten Electrode Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.12.4 Antai Tianlong Tungsten & Molybdenum Technology Main Business Overview
 - 13.12.5 Antai Tianlong Tungsten & Molybdenum Technology Latest Developments

13.13 CK Worldwide

13.13.1 CK Worldwide Company Information

13.13.2 CK Worldwide Tungsten Electrode Product Portfolios and Specifications

13.13.3 CK Worldwide Tungsten Electrode Sales, Revenue, Price and Gross Margin (2021-2026)

13.13.4 CK Worldwide Main Business Overview

13.13.5 CK Worldwide Latest Developments

13.14 Quality Tempered Tungsten

13.14.1 Quality Tempered Tungsten Company Information

13.14.2 Quality Tempered Tungsten Tungsten Electrode Product Portfolios and Specifications

13.14.3 Quality Tempered Tungsten Tungsten Electrode Sales, Revenue, Price and Gross Margin (2021-2026)

13.14.4 Quality Tempered Tungsten Main Business Overview

13.14.5 Quality Tempered Tungsten Latest Developments

13.15 Xiamen Honglu Tungsten Molybdenum Industry

13.15.1 Xiamen Honglu Tungsten Molybdenum Industry Company Information

13.15.2 Xiamen Honglu Tungsten Molybdenum Industry Tungsten Electrode Product Portfolios and Specifications

13.15.3 Xiamen Honglu Tungsten Molybdenum Industry Tungsten Electrode Sales, Revenue, Price and Gross Margin (2021-2026)

13.15.4 Xiamen Honglu Tungsten Molybdenum Industry Main Business Overview

13.15.5 Xiamen Honglu Tungsten Molybdenum Industry Latest Developments

13.16 Luoyang Science New Materials

13.16.1 Luoyang Science New Materials Company Information

13.16.2 Luoyang Science New Materials Tungsten Electrode Product Portfolios and Specifications

13.16.3 Luoyang Science New Materials Tungsten Electrode Sales, Revenue, Price and Gross Margin (2021-2026)

13.16.4 Luoyang Science New Materials Main Business Overview

13.16.5 Luoyang Science New Materials Latest Developments

13.17 Zhongtung Intelligent Manufacturing

13.17.1 Zhongtung Intelligent Manufacturing Company Information

13.17.2 Zhongtung Intelligent Manufacturing Tungsten Electrode Product Portfolios and Specifications

13.17.3 Zhongtung Intelligent Manufacturing Tungsten Electrode Sales, Revenue, Price and Gross Margin (2021-2026)

13.17.4 Zhongtung Intelligent Manufacturing Main Business Overview

13.17.5 Zhongtung Intelligent Manufacturing Latest Developments

13.18 Maiteng Metal

13.18.1 Maiteng Metal Company Information

13.18.2 Maiteng Metal Tungsten Electrode Product Portfolios and Specifications

13.18.3 Maiteng Metal Tungsten Electrode Sales, Revenue, Price and Gross Margin (2021-2026)

13.18.4 Maiteng Metal Main Business Overview

13.18.5 Maiteng Metal Latest Developments

14 RESEARCH FINDINGS AND CONCLUSION

List Of Tables

LIST OF TABLES

Table 1. Tungsten Electrode Annual Sales CAGR by Geographic Region (2021, 2025 & 2032) & (\$ millions)

Table 2. Tungsten Electrode Annual Sales CAGR by Country/Region (2021, 2025 & 2032) & (\$ millions)

Table 3. Major Players of Pure Tungsten

Table 4. Major Players of Thoriated Tungsten

Table 5. Major Players of Lanthanum Tungsten

Table 6. Major Players of Cerium Tungsten

Table 7. Major Players of Yttrium Tungsten

Table 8. Major Players of Others

Table 9. Global Tungsten Electrode Sales by Type (2021-2026) & (Tons)

Table 10. Global Tungsten Electrode Sales Market Share by Type (2021-2026)

Table 11. Global Tungsten Electrode Revenue by Type (2021-2026) & (\$ million)

Table 12. Global Tungsten Electrode Revenue Market Share by Type (2021-2026)

Table 13. Global Tungsten Electrode Sale Price by Type (2021-2026) & (US\$/kg)

Table 14. Major Players of AC Tungsten Electrode

Table 15. Major Players of DC Tungsten Electrode

Table 16. Global Tungsten Electrode Sales by Welding Current (2021-2026) & (Tons)

Table 17. Global Tungsten Electrode Sales Market Share by Welding Current (2021-2026)

Table 18. Global Tungsten Electrode Revenue by Welding Current (2021-2026) & (\$ million)

Table 19. Global Tungsten Electrode Revenue Market Share by Welding Current (2021-2026)

Table 20. Global Tungsten Electrode Sale Price by Welding Current (2021-2026) & (US\$/kg)

Table 21. Major Players of 0.5–1 mm

Table 22. Major Players of 1–3.2 mm

Table 23. Major Players of 3.2–6.4 mm

Table 24. Global Tungsten Electrode Sales by Diameter (2021-2026) & (Tons)

Table 25. Global Tungsten Electrode Sales Market Share by Diameter (2021-2026)

Table 26. Global Tungsten Electrode Revenue by Diameter (2021-2026) & (\$ million)

Table 27. Global Tungsten Electrode Revenue Market Share by Diameter (2021-2026)

Table 28. Global Tungsten Electrode Sale Price by Diameter (2021-2026) & (US\$/kg)

Table 29. Global Tungsten Electrode Sale by Application (2021-2026) & (Tons)

Table 30. Global Tungsten Electrode Sale Market Share by Application (2021-2026)
Table 31. Global Tungsten Electrode Revenue by Application (2021-2026) & (\$ million)
Table 32. Global Tungsten Electrode Revenue Market Share by Application (2021-2026)
Table 33. Global Tungsten Electrode Sale Price by Application (2021-2026) & (US\$/kg)
Table 34. Global Tungsten Electrode Sales by Company (2021-2026) & (Tons)
Table 35. Global Tungsten Electrode Sales Market Share by Company (2021-2026)
Table 36. Global Tungsten Electrode Revenue by Company (2021-2026) & (\$ millions)
Table 37. Global Tungsten Electrode Revenue Market Share by Company (2021-2026)
Table 38. Global Tungsten Electrode Sale Price by Company (2021-2026) & (US\$/kg)
Table 39. Key Manufacturers Tungsten Electrode Producing Area Distribution and Sales Area
Table 40. Players Tungsten Electrode Products Offered
Table 41. Tungsten Electrode Concentration Ratio (CR3, CR5 and CR10) & (2024-2026)
Table 42. New Products and Potential Entrants
Table 43. Market M&A Activity & Strategy
Table 44. Global Tungsten Electrode Sales by Geographic Region (2021-2026) & (Tons)
Table 45. Global Tungsten Electrode Sales Market Share Geographic Region (2021-2026)
Table 46. Global Tungsten Electrode Revenue by Geographic Region (2021-2026) & (\$ millions)
Table 47. Global Tungsten Electrode Revenue Market Share by Geographic Region (2021-2026)
Table 48. Global Tungsten Electrode Sales by Country/Region (2021-2026) & (Tons)
Table 49. Global Tungsten Electrode Sales Market Share by Country/Region (2021-2026)
Table 50. Global Tungsten Electrode Revenue by Country/Region (2021-2026) & (\$ millions)
Table 51. Global Tungsten Electrode Revenue Market Share by Country/Region (2021-2026)
Table 52. Americas Tungsten Electrode Sales by Country (2021-2026) & (Tons)
Table 53. Americas Tungsten Electrode Sales Market Share by Country (2021-2026)
Table 54. Americas Tungsten Electrode Revenue by Country (2021-2026) & (\$ millions)
Table 55. Americas Tungsten Electrode Sales by Type (2021-2026) & (Tons)
Table 56. Americas Tungsten Electrode Sales by Application (2021-2026) & (Tons)
Table 57. APAC Tungsten Electrode Sales by Region (2021-2026) & (Tons)
Table 58. APAC Tungsten Electrode Sales Market Share by Region (2021-2026)

Table 59. APAC Tungsten Electrode Revenue by Region (2021-2026) & (\$ millions)
Table 60. APAC Tungsten Electrode Sales by Type (2021-2026) & (Tons)
Table 61. APAC Tungsten Electrode Sales by Application (2021-2026) & (Tons)
Table 62. Europe Tungsten Electrode Sales by Country (2021-2026) & (Tons)
Table 63. Europe Tungsten Electrode Revenue by Country (2021-2026) & (\$ millions)
Table 64. Europe Tungsten Electrode Sales by Type (2021-2026) & (Tons)
Table 65. Europe Tungsten Electrode Sales by Application (2021-2026) & (Tons)
Table 66. Middle East & Africa Tungsten Electrode Sales by Country (2021-2026) & (Tons)
Table 67. Middle East & Africa Tungsten Electrode Revenue Market Share by Country (2021-2026)
Table 68. Middle East & Africa Tungsten Electrode Sales by Type (2021-2026) & (Tons)
Table 69. Middle East & Africa Tungsten Electrode Sales by Application (2021-2026) & (Tons)
Table 70. Key Market Drivers & Growth Opportunities of Tungsten Electrode
Table 71. Key Market Challenges & Risks of Tungsten Electrode
Table 72. Key Industry Trends of Tungsten Electrode
Table 73. Tungsten Electrode Raw Material
Table 74. Key Suppliers of Raw Materials
Table 75. Tungsten Electrode Distributors List
Table 76. Tungsten Electrode Customer List
Table 77. Global Tungsten Electrode Sales Forecast by Region (2027-2032) & (Tons)
Table 78. Global Tungsten Electrode Revenue Forecast by Region (2027-2032) & (\$ millions)
Table 79. Americas Tungsten Electrode Sales Forecast by Country (2027-2032) & (Tons)
Table 80. Americas Tungsten Electrode Annual Revenue Forecast by Country (2027-2032) & (\$ millions)
Table 81. APAC Tungsten Electrode Sales Forecast by Region (2027-2032) & (Tons)
Table 82. APAC Tungsten Electrode Annual Revenue Forecast by Region (2027-2032) & (\$ millions)
Table 83. Europe Tungsten Electrode Sales Forecast by Country (2027-2032) & (Tons)
Table 84. Europe Tungsten Electrode Revenue Forecast by Country (2027-2032) & (\$ millions)
Table 85. Middle East & Africa Tungsten Electrode Sales Forecast by Country (2027-2032) & (Tons)
Table 86. Middle East & Africa Tungsten Electrode Revenue Forecast by Country (2027-2032) & (\$ millions)
Table 87. Global Tungsten Electrode Sales Forecast by Type (2027-2032) & (Tons)

Table 88. Global Tungsten Electrode Revenue Forecast by Type (2027-2032) & (\$ millions)

Table 89. Global Tungsten Electrode Sales Forecast by Application (2027-2032) & (Tons)

Table 90. Global Tungsten Electrode Revenue Forecast by Application (2027-2032) & (\$ millions)

Table 91. Plansee Group Basic Information, Tungsten Electrode Manufacturing Base, Sales Area and Its Competitors

Table 92. Plansee Group Tungsten Electrode Product Portfolios and Specifications

Table 93. Plansee Group Tungsten Electrode Sales (Tons), Revenue (\$ Million), Price (US\$/kg) and Gross Margin (2021-2026)

Table 94. Plansee Group Main Business

Table 95. Plansee Group Latest Developments

Table 96. Wolfram Industrie GmbH Basic Information, Tungsten Electrode Manufacturing Base, Sales Area and Its Competitors

Table 97. Wolfram Industrie GmbH Tungsten Electrode Product Portfolios and Specifications

Table 98. Wolfram Industrie GmbH Tungsten Electrode Sales (Tons), Revenue (\$ Million), Price (US\$/kg) and Gross Margin (2021-2026)

Table 99. Wolfram Industrie GmbH Main Business

Table 100. Wolfram Industrie GmbH Latest Developments

Table 101. Weldstone GmbH Basic Information, Tungsten Electrode Manufacturing Base, Sales Area and Its Competitors

Table 102. Weldstone GmbH Tungsten Electrode Product Portfolios and Specifications

Table 103. Weldstone GmbH Tungsten Electrode Sales (Tons), Revenue (\$ Million), Price (US\$/kg) and Gross Margin (2021-2026)

Table 104. Weldstone GmbH Main Business

Table 105. Weldstone GmbH Latest Developments

Table 106. Diamond Ground Products Basic Information, Tungsten Electrode Manufacturing Base, Sales Area and Its Competitors

Table 107. Diamond Ground Products Tungsten Electrode Product Portfolios and Specifications

Table 108. Diamond Ground Products Tungsten Electrode Sales (Tons), Revenue (\$ Million), Price (US\$/kg) and Gross Margin (2021-2026)

Table 109. Diamond Ground Products Main Business

Table 110. Diamond Ground Products Latest Developments

Table 111. BOC Limited Basic Information, Tungsten Electrode Manufacturing Base, Sales Area and Its Competitors

Table 112. BOC Limited Tungsten Electrode Product Portfolios and Specifications

Table 113. BOC Limited Tungsten Electrode Sales (Tons), Revenue (\$ Million), Price (US\$/kg) and Gross Margin (2021-2026)

Table 114. BOC Limited Main Business

Table 115. BOC Limited Latest Developments

Table 116. Huntingdon Fusion Techniques Basic Information, Tungsten Electrode Manufacturing Base, Sales Area and Its Competitors

Table 117. Huntingdon Fusion Techniques Tungsten Electrode Product Portfolios and Specifications

Table 118. Huntingdon Fusion Techniques Tungsten Electrode Sales (Tons), Revenue (\$ Million), Price (US\$/kg) and Gross Margin (2021-2026)

Table 119. Huntingdon Fusion Techniques Main Business

Table 120. Huntingdon Fusion Techniques Latest Developments

Table 121. Beiwu New Materials Basic Information, Tungsten Electrode Manufacturing Base, Sales Area and Its Competitors

Table 122. Beiwu New Materials Tungsten Electrode Product Portfolios and Specifications

Table 123. Beiwu New Materials Tungsten Electrode Sales (Tons), Revenue (\$ Million), Price (US\$/kg) and Gross Margin (2021-2026)

Table 124. Beiwu New Materials Main Business

Table 125. Beiwu New Materials Latest Developments

Table 126. Nippon Tungsten Basic Information, Tungsten Electrode Manufacturing Base, Sales Area and Its Competitors

Table 127. Nippon Tungsten Tungsten Electrode Product Portfolios and Specifications

Table 128. Nippon Tungsten Tungsten Electrode Sales (Tons), Revenue (\$ Million), Price (US\$/kg) and Gross Margin (2021-2026)

Table 129. Nippon Tungsten Main Business

Table 130. Nippon Tungsten Latest Developments

Table 131. Elmet Technologies LLC Basic Information, Tungsten Electrode Manufacturing Base, Sales Area and Its Competitors

Table 132. Elmet Technologies LLC Tungsten Electrode Product Portfolios and Specifications

Table 133. Elmet Technologies LLC Tungsten Electrode Sales (Tons), Revenue (\$ Million), Price (US\$/kg) and Gross Margin (2021-2026)

Table 134. Elmet Technologies LLC Main Business

Table 135. Elmet Technologies LLC Latest Developments

Table 136. R-Tech Welding Basic Information, Tungsten Electrode Manufacturing Base, Sales Area and Its Competitors

Table 137. R-Tech Welding Tungsten Electrode Product Portfolios and Specifications

Table 138. R-Tech Welding Tungsten Electrode Sales (Tons), Revenue (\$ Million),

Price (US\$/kg) and Gross Margin (2021-2026)

Table 139. R-Tech Welding Main Business

Table 140. R-Tech Welding Latest Developments

Table 141. Wanqitaibao Basic Information, Tungsten Electrode Manufacturing Base, Sales Area and Its Competitors

Table 142. Wanqitaibao Tungsten Electrode Product Portfolios and Specifications

Table 143. Wanqitaibao Tungsten Electrode Sales (Tons), Revenue (\$ Million), Price (US\$/kg) and Gross Margin (2021-2026)

Table 144. Wanqitaibao Main Business

Table 145. Wanqitaibao Latest Developments

Table 146. Antai Tianlong Tungsten & Molybdenum Technology Basic Information, Tungsten Electrode Manufacturing Base, Sales Area and Its Competitors

Table 147. Antai Tianlong Tungsten & Molybdenum Technology Tungsten Electrode Product Portfolios and Specifications

Table 148. Antai Tianlong Tungsten & Molybdenum Technology Tungsten Electrode Sales (Tons), Revenue (\$ Million), Price (US\$/kg) and Gross Margin (2021-2026)

Table 149. Antai Tianlong Tungsten & Molybdenum Technology Main Business

Table 150. Antai Tianlong Tungsten & Molybdenum Technology Latest Developments

Table 151. CK Worldwide Basic Information, Tungsten Electrode Manufacturing Base, Sales Area and Its Competitors

Table 152. CK Worldwide Tungsten Electrode Product Portfolios and Specifications

Table 153. CK Worldwide Tungsten Electrode Sales (Tons), Revenue (\$ Million), Price (US\$/kg) and Gross Margin (2021-2026)

Table 154. CK Worldwide Main Business

Table 155. CK Worldwide Latest Developments

Table 156. Quality Tempered Tungsten Basic Information, Tungsten Electrode Manufacturing Base, Sales Area and Its Competitors

Table 157. Quality Tempered Tungsten Tungsten Electrode Product Portfolios and Specifications

Table 158. Quality Tempered Tungsten Tungsten Electrode Sales (Tons), Revenue (\$ Million), Price (US\$/kg) and Gross Margin (2021-2026)

Table 159. Quality Tempered Tungsten Main Business

Table 160. Quality Tempered Tungsten Latest Developments

Table 161. Xiamen Honglu Tungsten Molybdenum Industry Basic Information, Tungsten Electrode Manufacturing Base, Sales Area and Its Competitors

Table 162. Xiamen Honglu Tungsten Molybdenum Industry Tungsten Electrode Product Portfolios and Specifications

Table 163. Xiamen Honglu Tungsten Molybdenum Industry Tungsten Electrode Sales (Tons), Revenue (\$ Million), Price (US\$/kg) and Gross Margin (2021-2026)

Table 164. Xiamen Honglu Tungsten Molybdenum Industry Main Business
Table 165. Xiamen Honglu Tungsten Molybdenum Industry Latest Developments
Table 166. Luoyang Science New Materials Basic Information, Tungsten Electrode Manufacturing Base, Sales Area and Its Competitors
Table 167. Luoyang Science New Materials Tungsten Electrode Product Portfolios and Specifications
Table 168. Luoyang Science New Materials Tungsten Electrode Sales (Tons), Revenue (\$ Million), Price (US\$/kg) and Gross Margin (2021-2026)
Table 169. Luoyang Science New Materials Main Business
Table 170. Luoyang Science New Materials Latest Developments
Table 171. Zhongtung Intelligent Manufacturing Basic Information, Tungsten Electrode Manufacturing Base, Sales Area and Its Competitors
Table 172. Zhongtung Intelligent Manufacturing Tungsten Electrode Product Portfolios and Specifications
Table 173. Zhongtung Intelligent Manufacturing Tungsten Electrode Sales (Tons), Revenue (\$ Million), Price (US\$/kg) and Gross Margin (2021-2026)
Table 174. Zhongtung Intelligent Manufacturing Main Business
Table 175. Zhongtung Intelligent Manufacturing Latest Developments
Table 176. Maiteng Metal Basic Information, Tungsten Electrode Manufacturing Base, Sales Area and Its Competitors
Table 177. Maiteng Metal Tungsten Electrode Product Portfolios and Specifications
Table 178. Maiteng Metal Tungsten Electrode Sales (Tons), Revenue (\$ Million), Price (US\$/kg) and Gross Margin (2021-2026)
Table 179. Maiteng Metal Main Business
Table 180. Maiteng Metal Latest Developments

List Of Figures

LIST OF FIGURES

- Figure 1. Picture of Tungsten Electrode
- Figure 2. Tungsten Electrode Report Years Considered
- Figure 3. Research Objectives
- Figure 4. Research Methodology
- Figure 5. Research Process and Data Source
- Figure 6. Global Tungsten Electrode Sales Growth Rate 2021-2032 (Tons)
- Figure 7. Global Tungsten Electrode Revenue Growth Rate 2021-2032 (\$ millions)
- Figure 8. Tungsten Electrode Sales by Geographic Region (2021, 2025 & 2032) & (\$ millions)
- Figure 9. Tungsten Electrode Sales Market Share by Country/Region (2025)
- Figure 10. Tungsten Electrode Sales Market Share by Country/Region (2021, 2025 & 2032)
- Figure 11. Product Picture of Pure Tungsten
- Figure 12. Product Picture of Thoriated Tungsten
- Figure 13. Product Picture of Lanthanum Tungsten
- Figure 14. Product Picture of Cerium Tungsten
- Figure 15. Product Picture of Yttrium Tungsten
- Figure 16. Product Picture of Others
- Figure 17. Global Tungsten Electrode Sales Market Share by Type in 2026
- Figure 18. Global Tungsten Electrode Revenue Market Share by Type (2021-2026)
- Figure 19. Product Picture of AC Tungsten Electrode
- Figure 20. Product Picture of DC Tungsten Electrode
- Figure 21. Global Tungsten Electrode Sales Market Share by Welding Current in 2026
- Figure 22. Global Tungsten Electrode Revenue Market Share by Welding Current (2021-2026)
- Figure 23. Product Picture of 0.5–1 mm
- Figure 24. Product Picture of 1–3.2 mm
- Figure 25. Product Picture of 3.2–6.4 mm
- Figure 26. Global Tungsten Electrode Sales Market Share by Diameter in 2026
- Figure 27. Global Tungsten Electrode Revenue Market Share by Diameter (2021-2026)
- Figure 28. Tungsten Electrode Consumed in TIG Welding
- Figure 29. Global Tungsten Electrode Market: TIG Welding (2021-2026) & (Tons)
- Figure 30. Tungsten Electrode Consumed in Plasma Welding
- Figure 31. Global Tungsten Electrode Market: Plasma Welding (2021-2026) & (Tons)
- Figure 32. Tungsten Electrode Consumed in Cutting

- Figure 33. Global Tungsten Electrode Market: Cutting (2021-2026) & (Tons)
- Figure 34. Tungsten Electrode Consumed in Thermal Spray
- Figure 35. Global Tungsten Electrode Market: Thermal Spray (2021-2026) & (Tons)
- Figure 36. Tungsten Electrode Consumed in Others
- Figure 37. Global Tungsten Electrode Market: Others (2021-2026) & (Tons)
- Figure 38. Global Tungsten Electrode Sale Market Share by Application (2025)
- Figure 39. Global Tungsten Electrode Revenue Market Share by Application in 2025
- Figure 40. Tungsten Electrode Sales by Company in 2025 (Tons)
- Figure 41. Global Tungsten Electrode Sales Market Share by Company in 2025
- Figure 42. Tungsten Electrode Revenue by Company in 2025 (\$ millions)
- Figure 43. Global Tungsten Electrode Revenue Market Share by Company in 2025
- Figure 44. Global Tungsten Electrode Sales Market Share by Geographic Region (2021-2026)
- Figure 45. Global Tungsten Electrode Revenue Market Share by Geographic Region in 2025
- Figure 46. Americas Tungsten Electrode Sales 2021-2026 (Tons)
- Figure 47. Americas Tungsten Electrode Revenue 2021-2026 (\$ millions)
- Figure 48. APAC Tungsten Electrode Sales 2021-2026 (Tons)
- Figure 49. APAC Tungsten Electrode Revenue 2021-2026 (\$ millions)
- Figure 50. Europe Tungsten Electrode Sales 2021-2026 (Tons)
- Figure 51. Europe Tungsten Electrode Revenue 2021-2026 (\$ millions)
- Figure 52. Middle East & Africa Tungsten Electrode Sales 2021-2026 (Tons)
- Figure 53. Middle East & Africa Tungsten Electrode Revenue 2021-2026 (\$ millions)
- Figure 54. Americas Tungsten Electrode Sales Market Share by Country in 2025
- Figure 55. Americas Tungsten Electrode Revenue Market Share by Country (2021-2026)
- Figure 56. Americas Tungsten Electrode Sales Market Share by Type (2021-2026)
- Figure 57. Americas Tungsten Electrode Sales Market Share by Application (2021-2026)
- Figure 58. United States Tungsten Electrode Revenue Growth 2021-2026 (\$ millions)
- Figure 59. Canada Tungsten Electrode Revenue Growth 2021-2026 (\$ millions)
- Figure 60. Mexico Tungsten Electrode Revenue Growth 2021-2026 (\$ millions)
- Figure 61. Brazil Tungsten Electrode Revenue Growth 2021-2026 (\$ millions)
- Figure 62. APAC Tungsten Electrode Sales Market Share by Region in 2025
- Figure 63. APAC Tungsten Electrode Revenue Market Share by Region (2021-2026)
- Figure 64. APAC Tungsten Electrode Sales Market Share by Type (2021-2026)
- Figure 65. APAC Tungsten Electrode Sales Market Share by Application (2021-2026)
- Figure 66. China Tungsten Electrode Revenue Growth 2021-2026 (\$ millions)
- Figure 67. Japan Tungsten Electrode Revenue Growth 2021-2026 (\$ millions)

- Figure 68. South Korea Tungsten Electrode Revenue Growth 2021-2026 (\$ millions)
- Figure 69. Southeast Asia Tungsten Electrode Revenue Growth 2021-2026 (\$ millions)
- Figure 70. India Tungsten Electrode Revenue Growth 2021-2026 (\$ millions)
- Figure 71. Australia Tungsten Electrode Revenue Growth 2021-2026 (\$ millions)
- Figure 72. China Taiwan Tungsten Electrode Revenue Growth 2021-2026 (\$ millions)
- Figure 73. Europe Tungsten Electrode Sales Market Share by Country in 2025
- Figure 74. Europe Tungsten Electrode Revenue Market Share by Country (2021-2026)
- Figure 75. Europe Tungsten Electrode Sales Market Share by Type (2021-2026)
- Figure 76. Europe Tungsten Electrode Sales Market Share by Application (2021-2026)
- Figure 77. Germany Tungsten Electrode Revenue Growth 2021-2026 (\$ millions)
- Figure 78. France Tungsten Electrode Revenue Growth 2021-2026 (\$ millions)
- Figure 79. UK Tungsten Electrode Revenue Growth 2021-2026 (\$ millions)
- Figure 80. Italy Tungsten Electrode Revenue Growth 2021-2026 (\$ millions)
- Figure 81. Russia Tungsten Electrode Revenue Growth 2021-2026 (\$ millions)
- Figure 82. Middle East & Africa Tungsten Electrode Sales Market Share by Country (2021-2026)
- Figure 83. Middle East & Africa Tungsten Electrode Sales Market Share by Type (2021-2026)
- Figure 84. Middle East & Africa Tungsten Electrode Sales Market Share by Application (2021-2026)
- Figure 85. Egypt Tungsten Electrode Revenue Growth 2021-2026 (\$ millions)
- Figure 86. South Africa Tungsten Electrode Revenue Growth 2021-2026 (\$ millions)
- Figure 87. Israel Tungsten Electrode Revenue Growth 2021-2026 (\$ millions)
- Figure 88. Turkey Tungsten Electrode Revenue Growth 2021-2026 (\$ millions)
- Figure 89. GCC Countries Tungsten Electrode Revenue Growth 2021-2026 (\$ millions)
- Figure 90. Manufacturing Cost Structure Analysis of Tungsten Electrode in 2026
- Figure 91. Manufacturing Process Analysis of Tungsten Electrode
- Figure 92. Industry Chain Structure of Tungsten Electrode
- Figure 93. Channels of Distribution
- Figure 94. Global Tungsten Electrode Sales Market Forecast by Region (2027-2032)
- Figure 95. Global Tungsten Electrode Revenue Market Share Forecast by Region (2027-2032)
- Figure 96. Global Tungsten Electrode Sales Market Share Forecast by Type (2027-2032)
- Figure 97. Global Tungsten Electrode Revenue Market Share Forecast by Type (2027-2032)
- Figure 98. Global Tungsten Electrode Sales Market Share Forecast by Application (2027-2032)
- Figure 99. Global Tungsten Electrode Revenue Market Share Forecast by Application (2027-2032)

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