

Global Tungsten Electrodes for TIG Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Tungsten Electrodes for TIG market size is expected to reach \$ 88.56 million by 2032, rising at a market growth of 5.5% CAGR during the forecast period (2026-2032).

Tungsten Electrodes for TIG is the core functional consumable of tungsten inert gas welding (TIG welding), which enhances its electron emission performance and arc stability by adding rare earth oxides such as cerium, thorium, and lanthanum to the high melting point tungsten matrix.

Tungsten electrode is used for TIG welding, which is a tungsten alloy strip made by powder metallurgy method with about 0.3% -5% rare earth elements such as cerium, thorium, lanthanum, zirconium, yttrium, etc. added to the tungsten matrix, and then processed by pressure. The diameter ranges from 0.25 to 6.4mm, and the standard length ranges from 75 to 600. The most commonly used specifications are diameter 1.0, 1.6, 2.4, and 3.2. The shape of the electrode end is an important factor for TIG. When using DCSP, the electrode end needs to be ground into a pointed shape, and its tip angle varies with the application range, electrode diameter, and welding current. Narrow joints require a small tip angle. When welding very thin materials, low current is required. The needle shaped minimum electrode is used to stabilize the arc, while an appropriate grounding electrode ensures easy arc initiation, good arc stability, and appropriate weld bead width. When welding with AC power, there is no need to grind the electrode terminals, because when using the appropriate welding current, the electrode terminals will form a half spherical shape. If the welding current is increased, the electrode terminals will become bulb shaped and may melt, contaminating the molten metal. In 2025, global Tungsten Electrodes for TIG production reached approximately 83.29 M Units, with an average global market price of around US\$ 0.71

per unit. The annual production capacity of tungsten electrodes for argon arc welding is 110 m units, with a gross profit margin of about 25%.

The upstream highly relies on tungsten mining and primary smelting products such as ammonium paratungstate (APT), which are processed into electrode products through powder metallurgy and pressure processing; Downstream applications widely cover fields such as aerospace, automotive manufacturing, and pressure vessels.

Raw material costs account for 40% -60%, while processing and manufacturing expenses are 15% -25%; Labor and other costs account for 5% -10%.

This report studies the global Tungsten Electrodes for TIG production, demand, key manufacturers, and key regions.

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

Highlights and key features of the study

Global Tungsten Electrodes for TIG total production and demand, 2021-2032, (M Units)

Global Tungsten Electrodes for TIG total production value, 2021-2032, (USD Million)

Global Tungsten Electrodes for TIG production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (M Units), (based on production site)

Global Tungsten Electrodes for TIG consumption by region & country, CAGR, 2021-2032 & (M Units)

U.S. VS China: Tungsten Electrodes for TIG domestic production, consumption, key domestic manufacturers and share

Global Tungsten Electrodes for TIG production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (M Units)

Global Tungsten Electrodes for TIG production by Type, production, value, CAGR, 2021-2032, (USD Million) & (M Units)

Global Tungsten Electrodes for TIG production by Application, production, value, CAGR, 2021-2032, (USD Million) & (M Units)

This report profiles key players in the global Tungsten Electrodes for TIG 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, Diamond Ground Products, ABICOR BINZEL, Wolfram Industrie, Huntingdon Fusion Techniques, ATTL Advanced Materials, Wade Metal Technology, Shandong Maike Non-ferrous Metal Technology, Zhuzhou JiaZi New Materials, 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 Tungsten Electrodes for TIG market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (M Units) and average price (US\$/Unit) 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 Tungsten Electrodes for TIG Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Tungsten Electrodes for TIG Market, Segmentation by Type:

Cerium Tungsten Electrode

Lanthanum Tungsten Electrode

Thoriated Tungsten Electrode

Zirconium Tungsten Electrode

Yttrium Tungsten Electrode

Other

Global Tungsten Electrodes for TIG Market, Segmentation by Length:

Length 150mm

Length 175mm

Length 178mm

Global Tungsten Electrodes for TIG Market, Segmentation by Diameter:

Diameter 25mm

Global Tungsten Electrodes for TIG Market, Segmentation by Application:

DC Welding

AC Welding

Companies Profiled:

Plansee

Diamond Ground Products

ABICOR BINZEL

Wolfram Industrie

Huntingdon Fusion Techniques

ATTL Advanced Materials

Wade Metal Technology

Shandong Maike Non-ferrous Metal Technology

Zhuzhou JiaZi New Materials

Key Questions Answered:

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

Contents

1 SUPPLY SUMMARY

- 1.1 Tungsten Electrodes for TIG Introduction
- 1.2 World Tungsten Electrodes for TIG Supply & Forecast
 - 1.2.1 World Tungsten Electrodes for TIG Production Value (2021 & 2025 & 2032)
 - 1.2.2 World Tungsten Electrodes for TIG Production (2021-2032)
 - 1.2.3 World Tungsten Electrodes for TIG Pricing Trends (2021-2032)
- 1.3 World Tungsten Electrodes for TIG Production by Region (Based on Production Site)
 - 1.3.1 World Tungsten Electrodes for TIG Production Value by Region (2021-2032)
 - 1.3.2 World Tungsten Electrodes for TIG Production by Region (2021-2032)
 - 1.3.3 World Tungsten Electrodes for TIG Average Price by Region (2021-2032)
 - 1.3.4 North America Tungsten Electrodes for TIG Production (2021-2032)
 - 1.3.5 Europe Tungsten Electrodes for TIG Production (2021-2032)
 - 1.3.6 China Tungsten Electrodes for TIG Production (2021-2032)
 - 1.3.7 Japan Tungsten Electrodes for TIG Production (2021-2032)
 - 1.3.8 India Tungsten Electrodes for TIG Production (2021-2032)
 - 1.3.9 Southeast Asia Tungsten Electrodes for TIG Production (2021-2032)
- 1.4 Market Drivers, Restraints and Trends
 - 1.4.1 Tungsten Electrodes for TIG Market Drivers
 - 1.4.2 Factors Affecting Demand
 - 1.4.3 Tungsten Electrodes for TIG Major Market Trends

2 DEMAND SUMMARY

- 2.1 World Tungsten Electrodes for TIG Demand (2021-2032)
- 2.2 World Tungsten Electrodes for TIG Consumption by Region
 - 2.2.1 World Tungsten Electrodes for TIG Consumption by Region (2021-2026)
 - 2.2.2 World Tungsten Electrodes for TIG Consumption Forecast by Region (2027-2032)
- 2.3 United States Tungsten Electrodes for TIG Consumption (2021-2032)
- 2.4 China Tungsten Electrodes for TIG Consumption (2021-2032)
- 2.5 Europe Tungsten Electrodes for TIG Consumption (2021-2032)
- 2.6 Japan Tungsten Electrodes for TIG Consumption (2021-2032)
- 2.7 South Korea Tungsten Electrodes for TIG Consumption (2021-2032)
- 2.8 ASEAN Tungsten Electrodes for TIG Consumption (2021-2032)
- 2.9 India Tungsten Electrodes for TIG Consumption (2021-2032)

3 WORLD MANUFACTURERS COMPETITIVE ANALYSIS

- 3.1 World Tungsten Electrodes for TIG Production Value by Manufacturer (2021-2026)
- 3.2 World Tungsten Electrodes for TIG Production by Manufacturer (2021-2026)
- 3.3 World Tungsten Electrodes for TIG Average Price by Manufacturer (2021-2026)
- 3.4 Tungsten Electrodes for TIG Company Evaluation Quadrant
- 3.5 Industry Rank and Concentration Rate (CR)
 - 3.5.1 Global Tungsten Electrodes for TIG Industry Rank of Major Manufacturers
 - 3.5.2 Global Concentration Ratios (CR4) for Tungsten Electrodes for TIG in 2025
 - 3.5.3 Global Concentration Ratios (CR8) for Tungsten Electrodes for TIG in 2025
- 3.6 Tungsten Electrodes for TIG Market: Overall Company Footprint Analysis
 - 3.6.1 Tungsten Electrodes for TIG Market: Region Footprint
 - 3.6.2 Tungsten Electrodes for TIG Market: Company Product Type Footprint
 - 3.6.3 Tungsten Electrodes for TIG Market: Company Product Application Footprint
- 3.7 Competitive Environment
 - 3.7.1 Historical Structure of the Industry
 - 3.7.2 Barriers of Market Entry
 - 3.7.3 Factors of Competition
- 3.8 New Entrant and Capacity Expansion Plans
- 3.9 Mergers, Acquisition, Agreements, and Collaborations

4 UNITED STATES VS CHINA VS REST OF THE WORLD

- 4.1 United States VS China: Tungsten Electrodes for TIG Production Value Comparison
 - 4.1.1 United States VS China: Tungsten Electrodes for TIG Production Value Comparison (2021 & 2025 & 2032)
 - 4.1.2 United States VS China: Tungsten Electrodes for TIG Production Value Market Share Comparison (2021 & 2025 & 2032)
- 4.2 United States VS China: Tungsten Electrodes for TIG Production Comparison
 - 4.2.1 United States VS China: Tungsten Electrodes for TIG Production Comparison (2021 & 2025 & 2032)
 - 4.2.2 United States VS China: Tungsten Electrodes for TIG Production Market Share Comparison (2021 & 2025 & 2032)
- 4.3 United States VS China: Tungsten Electrodes for TIG Consumption Comparison
 - 4.3.1 United States VS China: Tungsten Electrodes for TIG Consumption Comparison (2021 & 2025 & 2032)
 - 4.3.2 United States VS China: Tungsten Electrodes for TIG Consumption Market Share Comparison (2021 & 2025 & 2032)
- 4.4 United States Based Tungsten Electrodes for TIG Manufacturers and Market Share,

2021-2026

4.4.1 United States Based Tungsten Electrodes for TIG Manufacturers, Headquarters and Production Site (States, Country)

4.4.2 United States Based Manufacturers Tungsten Electrodes for TIG Production Value (2021-2026)

4.4.3 United States Based Manufacturers Tungsten Electrodes for TIG Production (2021-2026)

4.5 China Based Tungsten Electrodes for TIG Manufacturers and Market Share

4.5.1 China Based Tungsten Electrodes for TIG Manufacturers, Headquarters and Production Site (Province, Country)

4.5.2 China Based Manufacturers Tungsten Electrodes for TIG Production Value (2021-2026)

4.5.3 China Based Manufacturers Tungsten Electrodes for TIG Production (2021-2026)

4.6 Rest of World Based Tungsten Electrodes for TIG Manufacturers and Market Share, 2021-2026

4.6.1 Rest of World Based Tungsten Electrodes for TIG Manufacturers, Headquarters and Production Site (State, Country)

4.6.2 Rest of World Based Manufacturers Tungsten Electrodes for TIG Production Value (2021-2026)

4.6.3 Rest of World Based Manufacturers Tungsten Electrodes for TIG Production (2021-2026)

5 MARKET ANALYSIS BY TYPE

5.1 World Tungsten Electrodes for TIG Market Size Overview by Type: 2021 VS 2025 VS 2032

5.2 Segment Introduction by Type

5.2.1 Cerium Tungsten Electrode

5.2.2 Lanthanum Tungsten Electrode

5.2.3 Thoriated Tungsten Electrode

5.2.4 Zirconium Tungsten Electrode

5.2.5 Yttrium Tungsten Electrode

5.2.6 Other

5.3 Market Segment by Type

5.3.1 World Tungsten Electrodes for TIG Production by Type (2021-2032)

5.3.2 World Tungsten Electrodes for TIG Production Value by Type (2021-2032)

5.3.3 World Tungsten Electrodes for TIG Average Price by Type (2021-2032)

6 MARKET ANALYSIS BY LENGTH

6.1 World Tungsten Electrodes for TIG Market Size Overview by Length: 2021 VS 2025 VS 2032

6.2 Segment Introduction by Length

6.2.1 Length 150mm

6.2.2 Length 175mm

6.2.3 Length 178mm

6.3 Market Segment by Length

6.3.1 World Tungsten Electrodes for TIG Production by Length (2021-2032)

6.3.2 World Tungsten Electrodes for TIG Production Value by Length (2021-2032)

6.3.3 World Tungsten Electrodes for TIG Average Price by Length (2021-2032)

7 MARKET ANALYSIS BY DIAMETER

7.1 World Tungsten Electrodes for TIG Market Size Overview by Diameter: 2021 VS 2025 VS 2032

7.2 Segment Introduction by Diameter

7.2.1 Diameter 25mm

7.3 Market Segment by Diameter

7.3.1 World Tungsten Electrodes for TIG Production by Diameter (2021-2032)

7.3.2 World Tungsten Electrodes for TIG Production Value by Diameter (2021-2032)

7.3.3 World Tungsten Electrodes for TIG Average Price by Diameter (2021-2032)

8 MARKET ANALYSIS BY APPLICATION

8.1 World Tungsten Electrodes for TIG Market Size Overview by Application: 2021 VS 2025 VS 2032

8.2 Segment Introduction by Application

8.2.1 DC Welding

8.2.2 AC Welding

8.3 Market Segment by Application

8.3.1 World Tungsten Electrodes for TIG Production by Application (2021-2032)

8.3.2 World Tungsten Electrodes for TIG Production Value by Application (2021-2032)

8.3.3 World Tungsten Electrodes for TIG Average Price by Application (2021-2032)

9 COMPANY PROFILES

9.1 Plansee

9.1.1 Plansee Details

- 9.1.2 Plansee Major Business
- 9.1.3 Plansee Tungsten Electrodes for TIG Product and Services
- 9.1.4 Plansee Tungsten Electrodes for TIG Production, Price, Value, Gross Margin and Market Share (2021-2026)
- 9.1.5 Plansee Recent Developments/Updates
- 9.1.6 Plansee Competitive Strengths & Weaknesses
- 9.2 Diamond Ground Products
 - 9.2.1 Diamond Ground Products Details
 - 9.2.2 Diamond Ground Products Major Business
 - 9.2.3 Diamond Ground Products Tungsten Electrodes for TIG Product and Services
 - 9.2.4 Diamond Ground Products Tungsten Electrodes for TIG Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.2.5 Diamond Ground Products Recent Developments/Updates
 - 9.2.6 Diamond Ground Products Competitive Strengths & Weaknesses
- 9.3 ABICOR BINZEL
 - 9.3.1 ABICOR BINZEL Details
 - 9.3.2 ABICOR BINZEL Major Business
 - 9.3.3 ABICOR BINZEL Tungsten Electrodes for TIG Product and Services
 - 9.3.4 ABICOR BINZEL Tungsten Electrodes for TIG Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.3.5 ABICOR BINZEL Recent Developments/Updates
 - 9.3.6 ABICOR BINZEL Competitive Strengths & Weaknesses
- 9.4 Wolfram Industrie
 - 9.4.1 Wolfram Industrie Details
 - 9.4.2 Wolfram Industrie Major Business
 - 9.4.3 Wolfram Industrie Tungsten Electrodes for TIG Product and Services
 - 9.4.4 Wolfram Industrie Tungsten Electrodes for TIG Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.4.5 Wolfram Industrie Recent Developments/Updates
 - 9.4.6 Wolfram Industrie Competitive Strengths & Weaknesses
- 9.5 Huntingdon Fusion Techniques
 - 9.5.1 Huntingdon Fusion Techniques Details
 - 9.5.2 Huntingdon Fusion Techniques Major Business
 - 9.5.3 Huntingdon Fusion Techniques Tungsten Electrodes for TIG Product and Services
 - 9.5.4 Huntingdon Fusion Techniques Tungsten Electrodes for TIG Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.5.5 Huntingdon Fusion Techniques Recent Developments/Updates
 - 9.5.6 Huntingdon Fusion Techniques Competitive Strengths & Weaknesses
- 9.6 ATTL Advanced Materials

- 9.6.1 ATTL Advanced Materials Details
- 9.6.2 ATTL Advanced Materials Major Business
- 9.6.3 ATTL Advanced Materials Tungsten Electrodes for TIG Product and Services
- 9.6.4 ATTL Advanced Materials Tungsten Electrodes for TIG Production, Price, Value, Gross Margin and Market Share (2021-2026)
- 9.6.5 ATTL Advanced Materials Recent Developments/Updates
- 9.6.6 ATTL Advanced Materials Competitive Strengths & Weaknesses
- 9.7 Wade Metal Technology
 - 9.7.1 Wade Metal Technology Details
 - 9.7.2 Wade Metal Technology Major Business
 - 9.7.3 Wade Metal Technology Tungsten Electrodes for TIG Product and Services
 - 9.7.4 Wade Metal Technology Tungsten Electrodes for TIG Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.7.5 Wade Metal Technology Recent Developments/Updates
 - 9.7.6 Wade Metal Technology Competitive Strengths & Weaknesses
- 9.8 Shandong Maike Non-ferrous Metal Technology
 - 9.8.1 Shandong Maike Non-ferrous Metal Technology Details
 - 9.8.2 Shandong Maike Non-ferrous Metal Technology Major Business
 - 9.8.3 Shandong Maike Non-ferrous Metal Technology Tungsten Electrodes for TIG Product and Services
 - 9.8.4 Shandong Maike Non-ferrous Metal Technology Tungsten Electrodes for TIG Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.8.5 Shandong Maike Non-ferrous Metal Technology Recent Developments/Updates
 - 9.8.6 Shandong Maike Non-ferrous Metal Technology Competitive Strengths & Weaknesses
- 9.9 Zhuzhou JiaZi New Materials
 - 9.9.1 Zhuzhou JiaZi New Materials Details
 - 9.9.2 Zhuzhou JiaZi New Materials Major Business
 - 9.9.3 Zhuzhou JiaZi New Materials Tungsten Electrodes for TIG Product and Services
 - 9.9.4 Zhuzhou JiaZi New Materials Tungsten Electrodes for TIG Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.9.5 Zhuzhou JiaZi New Materials Recent Developments/Updates
 - 9.9.6 Zhuzhou JiaZi New Materials Competitive Strengths & Weaknesses

10 INDUSTRY CHAIN ANALYSIS

- 10.1 Tungsten Electrodes for TIG Industry Chain
- 10.2 Tungsten Electrodes for TIG Upstream Analysis
 - 10.2.1 Tungsten Electrodes for TIG Core Raw Materials

10.2.2 Main Manufacturers of Tungsten Electrodes for TIG Core Raw Materials

10.3 Midstream Analysis

10.4 Downstream Analysis

10.5 Tungsten Electrodes for TIG Production Mode

10.6 Tungsten Electrodes for TIG Procurement Model

10.7 Tungsten Electrodes for TIG Industry Sales Model and Sales Channels

10.7.1 Tungsten Electrodes for TIG Sales Model

10.7.2 Tungsten Electrodes for TIG Typical Distributors

11 RESEARCH FINDINGS AND CONCLUSION

12 APPENDIX

12.1 Methodology

12.2 Research Process and Data Source

12.3 Disclaimer

List Of Tables

LIST OF TABLES

Table 1. World Tungsten Electrodes for TIG Production Value by Region (2021, 2025 and 2032) & (USD Million)

Table 2. World Tungsten Electrodes for TIG Production Value by Region (2021-2026) & (USD Million)

Table 3. World Tungsten Electrodes for TIG Production Value by Region (2027-2032) & (USD Million)

Table 4. World Tungsten Electrodes for TIG Production Value Market Share by Region (2021-2026)

Table 5. World Tungsten Electrodes for TIG Production Value Market Share by Region (2027-2032)

Table 6. World Tungsten Electrodes for TIG Production by Region (2021-2026) & (M Units)

Table 7. World Tungsten Electrodes for TIG Production by Region (2027-2032) & (M Units)

Table 8. World Tungsten Electrodes for TIG Production Market Share by Region (2021-2026)

Table 9. World Tungsten Electrodes for TIG Production Market Share by Region (2027-2032)

Table 10. World Tungsten Electrodes for TIG Average Price by Region (2021-2026) & (US\$/Unit)

Table 11. World Tungsten Electrodes for TIG Average Price by Region (2027-2032) & (US\$/Unit)

Table 12. Tungsten Electrodes for TIG Major Market Trends

Table 13. World Tungsten Electrodes for TIG Consumption Growth Rate Forecast by Region (2021 & 2025 & 2032) & (M Units)

Table 14. World Tungsten Electrodes for TIG Consumption by Region (2021-2026) & (M Units)

Table 15. World Tungsten Electrodes for TIG Consumption Forecast by Region (2027-2032) & (M Units)

Table 16. World Tungsten Electrodes for TIG Production Value by Manufacturer (2021-2026) & (USD Million)

Table 17. Production Value Market Share of Key Tungsten Electrodes for TIG Producers in 2025

Table 18. World Tungsten Electrodes for TIG Production by Manufacturer (2021-2026) & (M Units)

Table 19. Production Market Share of Key Tungsten Electrodes for TIG Producers in 2025

Table 20. World Tungsten Electrodes for TIG Average Price by Manufacturer (2021-2026) & (US\$/Unit)

Table 21. Global Tungsten Electrodes for TIG Company Evaluation Quadrant

Table 22. World Tungsten Electrodes for TIG Industry Rank of Major Manufacturers, Based on Production Value in 2025

Table 23. Head Office and Tungsten Electrodes for TIG Production Site of Key Manufacturer

Table 24. Tungsten Electrodes for TIG Market: Company Product Type Footprint

Table 25. Tungsten Electrodes for TIG Market: Company Product Application Footprint

Table 26. Tungsten Electrodes for TIG Competitive Factors

Table 27. Tungsten Electrodes for TIG New Entrant and Capacity Expansion Plans

Table 28. Tungsten Electrodes for TIG Mergers & Acquisitions Activity

Table 29. United States VS China Tungsten Electrodes for TIG Production Value Comparison, (2021 & 2025 & 2032) & (USD Million)

Table 30. United States VS China Tungsten Electrodes for TIG Production Comparison, (2021 & 2025 & 2032) & (M Units)

Table 31. United States VS China Tungsten Electrodes for TIG Consumption Comparison, (2021 & 2025 & 2032) & (M Units)

Table 32. United States Based Tungsten Electrodes for TIG Manufacturers, Headquarters and Production Site (States, Country)

Table 33. United States Based Manufacturers Tungsten Electrodes for TIG Production Value, (2021-2026) & (USD Million)

Table 34. United States Based Manufacturers Tungsten Electrodes for TIG Production Value Market Share (2021-2026)

Table 35. United States Based Manufacturers Tungsten Electrodes for TIG Production (2021-2026) & (M Units)

Table 36. United States Based Manufacturers Tungsten Electrodes for TIG Production Market Share (2021-2026)

Table 37. China Based Tungsten Electrodes for TIG Manufacturers, Headquarters and Production Site (Province, Country)

Table 38. China Based Manufacturers Tungsten Electrodes for TIG Production Value, (2021-2026) & (USD Million)

Table 39. China Based Manufacturers Tungsten Electrodes for TIG Production Value Market Share (2021-2026)

Table 40. China Based Manufacturers Tungsten Electrodes for TIG Production, (2021-2026) & (M Units)

Table 41. China Based Manufacturers Tungsten Electrodes for TIG Production Market

Share (2021-2026)

Table 42. Rest of World Based Tungsten Electrodes for TIG Manufacturers, Headquarters and Production Site (State, Country)

Table 43. Rest of World Based Manufacturers Tungsten Electrodes for TIG Production Value, (2021-2026) & (USD Million)

Table 44. Rest of World Based Manufacturers Tungsten Electrodes for TIG Production Value Market Share (2021-2026)

Table 45. Rest of World Based Manufacturers Tungsten Electrodes for TIG Production, (2021-2026) & (M Units)

Table 46. Rest of World Based Manufacturers Tungsten Electrodes for TIG Production Market Share (2021-2026)

Table 47. World Tungsten Electrodes for TIG Production Value by Type, (USD Million), 2021 & 2025 & 2032

Table 48. World Tungsten Electrodes for TIG Production by Type (2021-2026) & (M Units)

Table 49. World Tungsten Electrodes for TIG Production by Type (2027-2032) & (M Units)

Table 50. World Tungsten Electrodes for TIG Production Value by Type (2021-2026) & (USD Million)

Table 51. World Tungsten Electrodes for TIG Production Value by Type (2027-2032) & (USD Million)

Table 52. World Tungsten Electrodes for TIG Average Price by Type (2021-2026) & (US\$/Unit)

Table 53. World Tungsten Electrodes for TIG Average Price by Type (2027-2032) & (US\$/Unit)

Table 54. World Tungsten Electrodes for TIG Production Value by Length, (USD Million), 2021 & 2025 & 2032

Table 55. World Tungsten Electrodes for TIG Production by Length (2021-2026) & (M Units)

Table 56. World Tungsten Electrodes for TIG Production by Length (2027-2032) & (M Units)

Table 57. World Tungsten Electrodes for TIG Production Value by Length (2021-2026) & (USD Million)

Table 58. World Tungsten Electrodes for TIG Production Value by Length (2027-2032) & (USD Million)

Table 59. World Tungsten Electrodes for TIG Average Price by Length (2021-2026) & (US\$/Unit)

Table 60. World Tungsten Electrodes for TIG Average Price by Length (2027-2032) & (US\$/Unit)

Table 61. World Tungsten Electrodes for TIG Production Value by Diameter, (USD Million), 2021 & 2025 & 2032

Table 62. World Tungsten Electrodes for TIG Production by Diameter (2021-2026) & (M Units)

Table 63. World Tungsten Electrodes for TIG Production by Diameter (2027-2032) & (M Units)

Table 64. World Tungsten Electrodes for TIG Production Value by Diameter (2021-2026) & (USD Million)

Table 65. World Tungsten Electrodes for TIG Production Value by Diameter (2027-2032) & (USD Million)

Table 66. World Tungsten Electrodes for TIG Average Price by Diameter (2021-2026) & (US\$/Unit)

Table 67. World Tungsten Electrodes for TIG Average Price by Diameter (2027-2032) & (US\$/Unit)

Table 68. World Tungsten Electrodes for TIG Production Value by Application, (USD Million), 2021 & 2025 & 2032

Table 69. World Tungsten Electrodes for TIG Production by Application (2021-2026) & (M Units)

Table 70. World Tungsten Electrodes for TIG Production by Application (2027-2032) & (M Units)

Table 71. World Tungsten Electrodes for TIG Production Value by Application (2021-2026) & (USD Million)

Table 72. World Tungsten Electrodes for TIG Production Value by Application (2027-2032) & (USD Million)

Table 73. World Tungsten Electrodes for TIG Average Price by Application (2021-2026) & (US\$/Unit)

Table 74. World Tungsten Electrodes for TIG Average Price by Application (2027-2032) & (US\$/Unit)

Table 75. Plansee Basic Information, Manufacturing Base and Competitors

Table 76. Plansee Major Business

Table 77. Plansee Tungsten Electrodes for TIG Product and Services

Table 78. Plansee Tungsten Electrodes for TIG Production (M Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 79. Plansee Recent Developments/Updates

Table 80. Plansee Competitive Strengths & Weaknesses

Table 81. Diamond Ground Products Basic Information, Manufacturing Base and Competitors

Table 82. Diamond Ground Products Major Business

Table 83. Diamond Ground Products Tungsten Electrodes for TIG Product and Services

Table 84. Diamond Ground Products Tungsten Electrodes for TIG Production (M Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 85. Diamond Ground Products Recent Developments/Updates

Table 86. Diamond Ground Products Competitive Strengths & Weaknesses

Table 87. ABICOR BINZEL Basic Information, Manufacturing Base and Competitors

Table 88. ABICOR BINZEL Major Business

Table 89. ABICOR BINZEL Tungsten Electrodes for TIG Product and Services

Table 90. ABICOR BINZEL Tungsten Electrodes for TIG Production (M Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 91. ABICOR BINZEL Recent Developments/Updates

Table 92. ABICOR BINZEL Competitive Strengths & Weaknesses

Table 93. Wolfram Industrie Basic Information, Manufacturing Base and Competitors

Table 94. Wolfram Industrie Major Business

Table 95. Wolfram Industrie Tungsten Electrodes for TIG Product and Services

Table 96. Wolfram Industrie Tungsten Electrodes for TIG Production (M Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 97. Wolfram Industrie Recent Developments/Updates

Table 98. Wolfram Industrie Competitive Strengths & Weaknesses

Table 99. Huntingdon Fusion Techniques Basic Information, Manufacturing Base and Competitors

Table 100. Huntingdon Fusion Techniques Major Business

Table 101. Huntingdon Fusion Techniques Tungsten Electrodes for TIG Product and Services

Table 102. Huntingdon Fusion Techniques Tungsten Electrodes for TIG Production (M Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 103. Huntingdon Fusion Techniques Recent Developments/Updates

Table 104. Huntingdon Fusion Techniques Competitive Strengths & Weaknesses

Table 105. ATTL Advanced Materials Basic Information, Manufacturing Base and Competitors

Table 106. ATTL Advanced Materials Major Business

Table 107. ATTL Advanced Materials Tungsten Electrodes for TIG Product and Services

Table 108. ATTL Advanced Materials Tungsten Electrodes for TIG Production (M Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 109. ATTL Advanced Materials Recent Developments/Updates

Table 110. ATTL Advanced Materials Competitive Strengths & Weaknesses

Table 111. Wade Metal Technology Basic Information, Manufacturing Base and Competitors

Table 112. Wade Metal Technology Major Business

Table 113. Wade Metal Technology Tungsten Electrodes for TIG Product and Services

Table 114. Wade Metal Technology Tungsten Electrodes for TIG Production (M Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 115. Wade Metal Technology Recent Developments/Updates

Table 116. Wade Metal Technology Competitive Strengths & Weaknesses

Table 117. Shandong Maike Non-ferrous Metal Technology Basic Information, Manufacturing Base and Competitors

Table 118. Shandong Maike Non-ferrous Metal Technology Major Business

Table 119. Shandong Maike Non-ferrous Metal Technology Tungsten Electrodes for TIG Product and Services

Table 120. Shandong Maike Non-ferrous Metal Technology Tungsten Electrodes for TIG Production (M Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 121. Shandong Maike Non-ferrous Metal Technology Recent Developments/Updates

Table 122. Shandong Maike Non-ferrous Metal Technology Competitive Strengths & Weaknesses

Table 123. Zhuzhou JiaZi New Materials Basic Information, Manufacturing Base and Competitors

Table 124. Zhuzhou JiaZi New Materials Major Business

Table 125. Zhuzhou JiaZi New Materials Tungsten Electrodes for TIG Product and Services

Table 126. Zhuzhou JiaZi New Materials Tungsten Electrodes for TIG Production (M Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 127. Zhuzhou JiaZi New Materials Recent Developments/Updates

Table 128. Zhuzhou JiaZi New Materials Competitive Strengths & Weaknesses

Table 129. Global Key Players of Tungsten Electrodes for TIG Upstream (Raw Materials)

Table 130. Global Tungsten Electrodes for TIG Typical Customers

Table 131. Tungsten Electrodes for TIG Typical Distributors

List Of Figures

LIST OF FIGURES

Figure 1. Tungsten Electrodes for TIG Picture

Figure 2. World Tungsten Electrodes for TIG Production Value: 2021 & 2025 & 2032, (USD Million)

Figure 3. World Tungsten Electrodes for TIG Production Value and Forecast (2021-2032) & (USD Million)

Figure 4. World Tungsten Electrodes for TIG Production (2021-2032) & (M Units)

Figure 5. World Tungsten Electrodes for TIG Average Price (2021-2032) & (US\$/Unit)

Figure 6. World Tungsten Electrodes for TIG Production Value Market Share by Region (2021-2032)

Figure 7. World Tungsten Electrodes for TIG Production Market Share by Region (2021-2032)

Figure 8. North America Tungsten Electrodes for TIG Production (2021-2032) & (M Units)

Figure 9. Europe Tungsten Electrodes for TIG Production (2021-2032) & (M Units)

Figure 10. China Tungsten Electrodes for TIG Production (2021-2032) & (M Units)

Figure 11. Japan Tungsten Electrodes for TIG Production (2021-2032) & (M Units)

Figure 12. India Tungsten Electrodes for TIG Production (2021-2032) & (M Units)

Figure 13. Southeast Asia Tungsten Electrodes for TIG Production (2021-2032) & (M Units)

Figure 14. Tungsten Electrodes for TIG Market Drivers

Figure 15. Factors Affecting Demand

Figure 16. World Tungsten Electrodes for TIG Consumption (2021-2032) & (M Units)

Figure 17. World Tungsten Electrodes for TIG Consumption Market Share by Region (2021-2032)

Figure 18. United States Tungsten Electrodes for TIG Consumption (2021-2032) & (M Units)

Figure 19. China Tungsten Electrodes for TIG Consumption (2021-2032) & (M Units)

Figure 20. Europe Tungsten Electrodes for TIG Consumption (2021-2032) & (M Units)

Figure 21. Japan Tungsten Electrodes for TIG Consumption (2021-2032) & (M Units)

Figure 22. South Korea Tungsten Electrodes for TIG Consumption (2021-2032) & (M Units)

Figure 23. ASEAN Tungsten Electrodes for TIG Consumption (2021-2032) & (M Units)

Figure 24. India Tungsten Electrodes for TIG Consumption (2021-2032) & (M Units)

Figure 25. Producer Shipments of Tungsten Electrodes for TIG by Manufacturer Revenue (\$MM) and Market Share (%): 2025

Figure 26. Global Four-firm Concentration Ratios (CR4) for Tungsten Electrodes for TIG Markets in 2025

Figure 27. Global Four-firm Concentration Ratios (CR8) for Tungsten Electrodes for TIG Markets in 2025

Figure 28. United States VS China: Tungsten Electrodes for TIG Production Value Market Share Comparison (2021 & 2025 & 2032)

Figure 29. United States VS China: Tungsten Electrodes for TIG Production Market Share Comparison (2021 & 2025 & 2032)

Figure 30. United States VS China: Tungsten Electrodes for TIG Consumption Market Share Comparison (2021 & 2025 & 2032)

Figure 31. United States Based Manufacturers Tungsten Electrodes for TIG Production Market Share 2025

Figure 32. China Based Manufacturers Tungsten Electrodes for TIG Production Market Share 2025

Figure 33. Rest of World Based Manufacturers Tungsten Electrodes for TIG Production Market Share 2025

Figure 34. World Tungsten Electrodes for TIG Production Value by Type, (USD Million), 2021 & 2025 & 2032

Figure 35. World Tungsten Electrodes for TIG Production Value Market Share by Type in 2025

Figure 36. Cerium Tungsten Electrode

Figure 37. Lanthanum Tungsten Electrode

Figure 38. Thoriated Tungsten Electrode

Figure 39. Zirconium Tungsten Electrode

Figure 40. Yttrium Tungsten Electrode

Figure 41. Other

Figure 42. World Tungsten Electrodes for TIG Production Market Share by Type (2021-2032)

Figure 43. World Tungsten Electrodes for TIG Production Value Market Share by Type (2021-2032)

Figure 44. World Tungsten Electrodes for TIG Average Price by Type (2021-2032) & (US\$/Unit)

Figure 45. World Tungsten Electrodes for TIG Production Value by Length, (USD Million), 2021 & 2025 & 2032

Figure 46. World Tungsten Electrodes for TIG Production Value Market Share by Length in 2025

Figure 47. Length 150mm

Figure 48. Length 175mm

Figure 49. Length 178mm

Figure 50. World Tungsten Electrodes for TIG Production Market Share by Length (2021-2032)

Figure 51. World Tungsten Electrodes for TIG Production Value Market Share by Length (2021-2032)

Figure 52. World Tungsten Electrodes for TIG Average Price by Length (2021-2032) & (US\$/Unit)

Figure 53. World Tungsten Electrodes for TIG Production Value by Diameter, (USD Million), 2021 & 2025 & 2032

Figure 54. World Tungsten Electrodes for TIG Production Value Market Share by Diameter in 2025

Figure 55. Diameter25mm

Figure 58. World Tungsten Electrodes for TIG Production Market Share by Diameter (2021-2032)

Figure 59. World Tungsten Electrodes for TIG Production Value Market Share by Diameter (2021-2032)

Figure 60. World Tungsten Electrodes for TIG Average Price by Diameter (2021-2032) & (US\$/Unit)

Figure 61. World Tungsten Electrodes for TIG Production Value by Application, (USD Million), 2021 & 2025 & 2032

Figure 62. World Tungsten Electrodes for TIG Production Value Market Share by Application in 2025

Figure 63. DC Welding

Figure 64. AC Welding

Figure 65. World Tungsten Electrodes for TIG Production Market Share by Application (2021-2032)

Figure 66. World Tungsten Electrodes for TIG Production Value Market Share by Application (2021-2032)

Figure 67. World Tungsten Electrodes for TIG Average Price by Application (2021-2032) & (US\$/Unit)

Figure 68. Tungsten Electrodes for TIG Industry Chain

Figure 69. Tungsten Electrodes for TIG Procurement Model

Figure 70. Tungsten Electrodes for TIG Sales Model

Figure 71. Tungsten Electrodes for TIG Sales Channels, Direct Sales, and Distribution

Figure 72. Methodology

Figure 73. Research Process and Data Source

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