

# Global Tungsten Copper Composite Material Supply, Demand and Key Producers, 2026-2032

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## Abstracts

The global Tungsten Copper Composite Material market size is expected to reach \$ 1077 million by 2032, rising at a market growth of 5.6% CAGR during the forecast period (2026-2032).

Tungsten copper composite material is a bimetallic composite material composed of two metals, tungsten (W) and copper (Cu). Due to the immiscibility of tungsten and copper in liquid state, and the significant difference in melting points (tungsten melting point is about 3387 °C, copper melting point is 1083 °C), this material belongs to a typical pseudo alloy in metallurgy, rather than a traditional alloy. In 2025, global Tungsten Copper Composite Material production reached approximately 4,687 MT, with an average global market price of around US\$ 153 per kg. The annual production capacity of tungsten copper composite material is 6000 tons, with a gross profit margin of about 35%.

Upstream core raw materials: tungsten powder, copper powder.

Downstream: electronic packaging; Heat sink material; Lead frame; other.

Cost analysis: Raw material costs account for 50-70%; Manufacturing/processing costs account for 15% -25%; Artificial labor and others account for 5% -10%.

In the electronic device packaging industry, tungsten copper electronic packaging materials have become an important material choice for high-power device heat dissipation due to their unique thermal management capabilities. This type of material is made by combining the high melting point of tungsten (3422 °C) with the thermal conductivity of copper (about 400W/m °C), using powder metallurgy or infiltration

processes, which can effectively balance the difference in thermal expansion and dissipate heat. After using this material in the power control module of new energy vehicles, the operating temperature of the chip can be reduced by 10-15 °C, and the system stability is significantly enhanced.

The tungsten copper electronic packaging materials currently used in industrial applications are mainly divided into three types. The high tungsten content type usually contains 70-90% tungsten, and its thermal expansion coefficient ( $6.5-8.5 \times 10^{-6}/^{\circ}\text{C}$ ) is close to that of silicon chips ( $4 \times 10^{-6}/^{\circ}\text{C}$ ), which can compress the thermal mismatch rate to within 15%. A certain model of substrate material containing 85% tungsten has a thermal conductivity of 180-220W/m · K. When used in 5G base station power amplifier modules, the thermal resistance can be reduced to 0.2 °C/W, and the efficiency is increased by more than 30% compared to traditional aluminum silicon carbide materials.

This report studies the global Tungsten Copper Composite Material production, demand, key manufacturers, and key regions.

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

#### Highlights and key features of the study

Global Tungsten Copper Composite Material total production and demand, 2021-2032, (Tons)

Global Tungsten Copper Composite Material total production value, 2021-2032, (USD Million)

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

Global Tungsten Copper Composite Material consumption by region & country, CAGR, 2021-2032 & (Tons)

U.S. VS China: Tungsten Copper Composite Material domestic production, consumption, key domestic manufacturers and share

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

Global Tungsten Copper Composite Material production by Type, production, value,

CAGR, 2021-2032, (USD Million) & (Tons)

Global Tungsten Copper Composite Material production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Tons)

This report profiles key players in the global Tungsten Copper Composite Material 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 ALMT Corp, AMETEK, Negele Hartmetall-Technik GmbH, H.C. Starck Hermsdorf GmbH, ATT Advanced Elemental Materials, Santier, ATTL Advanced Materials, Shaanxi Puwei Electronic Technology, Changsha Saneway Electronic Materials, Luoyang Combat Tungsten & Molybdenum 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 Copper Composite Material 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 year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

Global Tungsten Copper Composite Material Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Tungsten Copper Composite Material Market, Segmentation by Type:

Copper Content200W/(M.K)

Global Tungsten Copper Composite Material Market, Segmentation by Application:

Electronic Packaging

Heat Sink Material

Lead Frame

Other

Companies Profiled:

ALMT Corp

AMETEK

Negele Hartmetall-Technik GmbH

H.C. Starck Hermsdorf GmbH

ATT Advanced Elemental Materials

Santier

ATTL Advanced Materials

Shaanxi Puwei Electronic Technology

Changsha Saneway Electronic Materials

Luoyang Combat Tungsten & Molybdenum Materials

Starshining Advanced Materials

Xinchao Wei New Materials Technology

**Key Questions Answered:**

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

## Contents

### 1 SUPPLY SUMMARY

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

### 2 DEMAND SUMMARY

- 2.1 World Tungsten Copper Composite Material Demand (2021-2032)
- 2.2 World Tungsten Copper Composite Material Consumption by Region
  - 2.2.1 World Tungsten Copper Composite Material Consumption by Region (2021-2026)
  - 2.2.2 World Tungsten Copper Composite Material Consumption Forecast by Region (2027-2032)
- 2.3 United States Tungsten Copper Composite Material Consumption (2021-2032)
- 2.4 China Tungsten Copper Composite Material Consumption (2021-2032)
- 2.5 Europe Tungsten Copper Composite Material Consumption (2021-2032)
- 2.6 Japan Tungsten Copper Composite Material Consumption (2021-2032)

- 2.7 South Korea Tungsten Copper Composite Material Consumption (2021-2032)
- 2.8 ASEAN Tungsten Copper Composite Material Consumption (2021-2032)
- 2.9 India Tungsten Copper Composite Material Consumption (2021-2032)

### **3 WORLD MANUFACTURERS COMPETITIVE ANALYSIS**

- 3.1 World Tungsten Copper Composite Material Production Value by Manufacturer (2021-2026)
- 3.2 World Tungsten Copper Composite Material Production by Manufacturer (2021-2026)
- 3.3 World Tungsten Copper Composite Material Average Price by Manufacturer (2021-2026)
- 3.4 Tungsten Copper Composite Material Company Evaluation Quadrant
- 3.5 Industry Rank and Concentration Rate (CR)
  - 3.5.1 Global Tungsten Copper Composite Material Industry Rank of Major Manufacturers
  - 3.5.2 Global Concentration Ratios (CR4) for Tungsten Copper Composite Material in 2025
  - 3.5.3 Global Concentration Ratios (CR8) for Tungsten Copper Composite Material in 2025
- 3.6 Tungsten Copper Composite Material Market: Overall Company Footprint Analysis
  - 3.6.1 Tungsten Copper Composite Material Market: Region Footprint
  - 3.6.2 Tungsten Copper Composite Material Market: Company Product Type Footprint
  - 3.6.3 Tungsten Copper Composite Material 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 Copper Composite Material Production Value Comparison
  - 4.1.1 United States VS China: Tungsten Copper Composite Material Production Value Comparison (2021 & 2025 & 2032)
  - 4.1.2 United States VS China: Tungsten Copper Composite Material Production Value

## Market Share Comparison (2021 & 2025 & 2032)

### 4.2 United States VS China: Tungsten Copper Composite Material Production Comparison

#### 4.2.1 United States VS China: Tungsten Copper Composite Material Production Comparison (2021 & 2025 & 2032)

#### 4.2.2 United States VS China: Tungsten Copper Composite Material Production Market Share Comparison (2021 & 2025 & 2032)

### 4.3 United States VS China: Tungsten Copper Composite Material Consumption Comparison

#### 4.3.1 United States VS China: Tungsten Copper Composite Material Consumption Comparison (2021 & 2025 & 2032)

#### 4.3.2 United States VS China: Tungsten Copper Composite Material Consumption Market Share Comparison (2021 & 2025 & 2032)

### 4.4 United States Based Tungsten Copper Composite Material Manufacturers and Market Share, 2021-2026

#### 4.4.1 United States Based Tungsten Copper Composite Material Manufacturers, Headquarters and Production Site (States, Country)

#### 4.4.2 United States Based Manufacturers Tungsten Copper Composite Material Production Value (2021-2026)

#### 4.4.3 United States Based Manufacturers Tungsten Copper Composite Material Production (2021-2026)

### 4.5 China Based Tungsten Copper Composite Material Manufacturers and Market Share

#### 4.5.1 China Based Tungsten Copper Composite Material Manufacturers, Headquarters and Production Site (Province, Country)

#### 4.5.2 China Based Manufacturers Tungsten Copper Composite Material Production Value (2021-2026)

#### 4.5.3 China Based Manufacturers Tungsten Copper Composite Material Production (2021-2026)

### 4.6 Rest of World Based Tungsten Copper Composite Material Manufacturers and Market Share, 2021-2026

#### 4.6.1 Rest of World Based Tungsten Copper Composite Material Manufacturers, Headquarters and Production Site (State, Country)

#### 4.6.2 Rest of World Based Manufacturers Tungsten Copper Composite Material Production Value (2021-2026)

#### 4.6.3 Rest of World Based Manufacturers Tungsten Copper Composite Material Production (2021-2026)

## 5 MARKET ANALYSIS BY TYPE

5.1 World Tungsten Copper Composite Material Market Size Overview by Type: 2021 VS 2025 VS 2032

5.2 Segment Introduction by Type

5.2.1 Copper Content200W/(M.K)

7.3 Market Segment by Thermal Conductivity

7.3.1 World Tungsten Copper Composite Material Production by Thermal Conductivity (2021-2032)

7.3.2 World Tungsten Copper Composite Material Production Value by Thermal Conductivity (2021-2032)

7.3.3 World Tungsten Copper Composite Material Average Price by Thermal Conductivity (2021-2032)

## **8 MARKET ANALYSIS BY APPLICATION**

8.1 World Tungsten Copper Composite Material Market Size Overview by Application: 2021 VS 2025 VS 2032

8.2 Segment Introduction by Application

8.2.1 Electronic Packaging

8.2.2 Heat Sink Material

8.2.3 Lead Frame

8.2.4 Other

8.3 Market Segment by Application

8.3.1 World Tungsten Copper Composite Material Production by Application (2021-2032)

8.3.2 World Tungsten Copper Composite Material Production Value by Application (2021-2032)

8.3.3 World Tungsten Copper Composite Material Average Price by Application (2021-2032)

## **9 COMPANY PROFILES**

9.1 ALMT Corp

9.1.1 ALMT Corp Details

9.1.2 ALMT Corp Major Business

9.1.3 ALMT Corp Tungsten Copper Composite Material Product and Services

9.1.4 ALMT Corp Tungsten Copper Composite Material Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.1.5 ALMT Corp Recent Developments/Updates

## 9.1.6 ALMT Corp Competitive Strengths & Weaknesses

## 9.2 AMETEK

### 9.2.1 AMETEK Details

### 9.2.2 AMETEK Major Business

### 9.2.3 AMETEK Tungsten Copper Composite Material Product and Services

### 9.2.4 AMETEK Tungsten Copper Composite Material Production, Price, Value, Gross Margin and Market Share (2021-2026)

### 9.2.5 AMETEK Recent Developments/Updates

### 9.2.6 AMETEK Competitive Strengths & Weaknesses

## 9.3 Negele Hartmetall-Technik GmbH

### 9.3.1 Negele Hartmetall-Technik GmbH Details

### 9.3.2 Negele Hartmetall-Technik GmbH Major Business

### 9.3.3 Negele Hartmetall-Technik GmbH Tungsten Copper Composite Material Product and Services

### 9.3.4 Negele Hartmetall-Technik GmbH Tungsten Copper Composite Material Production, Price, Value, Gross Margin and Market Share (2021-2026)

### 9.3.5 Negele Hartmetall-Technik GmbH Recent Developments/Updates

### 9.3.6 Negele Hartmetall-Technik GmbH Competitive Strengths & Weaknesses

## 9.4 H.C. Starck Hermsdorf GmbH

### 9.4.1 H.C. Starck Hermsdorf GmbH Details

### 9.4.2 H.C. Starck Hermsdorf GmbH Major Business

### 9.4.3 H.C. Starck Hermsdorf GmbH Tungsten Copper Composite Material Product and Services

### 9.4.4 H.C. Starck Hermsdorf GmbH Tungsten Copper Composite Material Production, Price, Value, Gross Margin and Market Share (2021-2026)

### 9.4.5 H.C. Starck Hermsdorf GmbH Recent Developments/Updates

### 9.4.6 H.C. Starck Hermsdorf GmbH Competitive Strengths & Weaknesses

## 9.5 ATT Advanced Elemental Materials

### 9.5.1 ATT Advanced Elemental Materials Details

### 9.5.2 ATT Advanced Elemental Materials Major Business

### 9.5.3 ATT Advanced Elemental Materials Tungsten Copper Composite Material Product and Services

### 9.5.4 ATT Advanced Elemental Materials Tungsten Copper Composite Material Production, Price, Value, Gross Margin and Market Share (2021-2026)

### 9.5.5 ATT Advanced Elemental Materials Recent Developments/Updates

### 9.5.6 ATT Advanced Elemental Materials Competitive Strengths & Weaknesses

## 9.6 Santier

### 9.6.1 Santier Details

### 9.6.2 Santier Major Business

- 9.6.3 Santier Tungsten Copper Composite Material Product and Services
- 9.6.4 Santier Tungsten Copper Composite Material Production, Price, Value, Gross Margin and Market Share (2021-2026)
- 9.6.5 Santier Recent Developments/Updates
- 9.6.6 Santier Competitive Strengths & Weaknesses
- 9.7 ATTL Advanced Materials
  - 9.7.1 ATTL Advanced Materials Details
  - 9.7.2 ATTL Advanced Materials Major Business
  - 9.7.3 ATTL Advanced Materials Tungsten Copper Composite Material Product and Services
  - 9.7.4 ATTL Advanced Materials Tungsten Copper Composite Material Production, Price, Value, Gross Margin and Market Share (2021-2026)
  - 9.7.5 ATTL Advanced Materials Recent Developments/Updates
  - 9.7.6 ATTL Advanced Materials Competitive Strengths & Weaknesses
- 9.8 Shaanxi Puwei Electronic Technology
  - 9.8.1 Shaanxi Puwei Electronic Technology Details
  - 9.8.2 Shaanxi Puwei Electronic Technology Major Business
  - 9.8.3 Shaanxi Puwei Electronic Technology Tungsten Copper Composite Material Product and Services
  - 9.8.4 Shaanxi Puwei Electronic Technology Tungsten Copper Composite Material Production, Price, Value, Gross Margin and Market Share (2021-2026)
  - 9.8.5 Shaanxi Puwei Electronic Technology Recent Developments/Updates
  - 9.8.6 Shaanxi Puwei Electronic Technology Competitive Strengths & Weaknesses
- 9.9 Changsha Saneway Electronic Materials
  - 9.9.1 Changsha Saneway Electronic Materials Details
  - 9.9.2 Changsha Saneway Electronic Materials Major Business
  - 9.9.3 Changsha Saneway Electronic Materials Tungsten Copper Composite Material Product and Services
  - 9.9.4 Changsha Saneway Electronic Materials Tungsten Copper Composite Material Production, Price, Value, Gross Margin and Market Share (2021-2026)
  - 9.9.5 Changsha Saneway Electronic Materials Recent Developments/Updates
  - 9.9.6 Changsha Saneway Electronic Materials Competitive Strengths & Weaknesses
- 9.10 Luoyang Combat Tungsten & Molybdenum Materials
  - 9.10.1 Luoyang Combat Tungsten & Molybdenum Materials Details
  - 9.10.2 Luoyang Combat Tungsten & Molybdenum Materials Major Business
  - 9.10.3 Luoyang Combat Tungsten & Molybdenum Materials Tungsten Copper Composite Material Product and Services
  - 9.10.4 Luoyang Combat Tungsten & Molybdenum Materials Tungsten Copper Composite Material Production, Price, Value, Gross Margin and Market Share

(2021-2026)

9.10.5 Luoyang Combat Tungsten & Molybdenum Materials Recent Developments/Updates

9.10.6 Luoyang Combat Tungsten & Molybdenum Materials Competitive Strengths & Weaknesses

9.11 Starshining Advanced Materials

9.11.1 Starshining Advanced Materials Details

9.11.2 Starshining Advanced Materials Major Business

9.11.3 Starshining Advanced Materials Tungsten Copper Composite Material Product and Services

9.11.4 Starshining Advanced Materials Tungsten Copper Composite Material Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.11.5 Starshining Advanced Materials Recent Developments/Updates

9.11.6 Starshining Advanced Materials Competitive Strengths & Weaknesses

9.12 Xinchao Wei New Materials Technology

9.12.1 Xinchao Wei New Materials Technology Details

9.12.2 Xinchao Wei New Materials Technology Major Business

9.12.3 Xinchao Wei New Materials Technology Tungsten Copper Composite Material Product and Services

9.12.4 Xinchao Wei New Materials Technology Tungsten Copper Composite Material Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.12.5 Xinchao Wei New Materials Technology Recent Developments/Updates

9.12.6 Xinchao Wei New Materials Technology Competitive Strengths & Weaknesses

## **10 INDUSTRY CHAIN ANALYSIS**

10.1 Tungsten Copper Composite Material Industry Chain

10.2 Tungsten Copper Composite Material Upstream Analysis

10.2.1 Tungsten Copper Composite Material Core Raw Materials

10.2.2 Main Manufacturers of Tungsten Copper Composite Material Core Raw Materials

10.3 Midstream Analysis

10.4 Downstream Analysis

10.5 Tungsten Copper Composite Material Production Mode

10.6 Tungsten Copper Composite Material Procurement Model

10.7 Tungsten Copper Composite Material Industry Sales Model and Sales Channels

10.7.1 Tungsten Copper Composite Material Sales Model

10.7.2 Tungsten Copper Composite Material 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 Copper Composite Material Production Value by Region (2021, 2025 and 2032) & (USD Million)

Table 2. World Tungsten Copper Composite Material Production Value by Region (2021-2026) & (USD Million)

Table 3. World Tungsten Copper Composite Material Production Value by Region (2027-2032) & (USD Million)

Table 4. World Tungsten Copper Composite Material Production Value Market Share by Region (2021-2026)

Table 5. World Tungsten Copper Composite Material Production Value Market Share by Region (2027-2032)

Table 6. World Tungsten Copper Composite Material Production by Region (2021-2026) & (Tons)

Table 7. World Tungsten Copper Composite Material Production by Region (2027-2032) & (Tons)

Table 8. World Tungsten Copper Composite Material Production Market Share by Region (2021-2026)

Table 9. World Tungsten Copper Composite Material Production Market Share by Region (2027-2032)

Table 10. World Tungsten Copper Composite Material Average Price by Region (2021-2026) & (US\$/Kg)

Table 11. World Tungsten Copper Composite Material Average Price by Region (2027-2032) & (US\$/Kg)

Table 12. Tungsten Copper Composite Material Major Market Trends

Table 13. World Tungsten Copper Composite Material Consumption Growth Rate Forecast by Region (2021 & 2025 & 2032) & (Tons)

Table 14. World Tungsten Copper Composite Material Consumption by Region (2021-2026) & (Tons)

Table 15. World Tungsten Copper Composite Material Consumption Forecast by Region (2027-2032) & (Tons)

Table 16. World Tungsten Copper Composite Material Production Value by Manufacturer (2021-2026) & (USD Million)

Table 17. Production Value Market Share of Key Tungsten Copper Composite Material Producers in 2025

Table 18. World Tungsten Copper Composite Material Production by Manufacturer (2021-2026) & (Tons)

Table 19. Production Market Share of Key Tungsten Copper Composite Material Producers in 2025

Table 20. World Tungsten Copper Composite Material Average Price by Manufacturer (2021-2026) & (US\$/Kg)

Table 21. Global Tungsten Copper Composite Material Company Evaluation Quadrant

Table 22. World Tungsten Copper Composite Material Industry Rank of Major Manufacturers, Based on Production Value in 2025

Table 23. Head Office and Tungsten Copper Composite Material Production Site of Key Manufacturer

Table 24. Tungsten Copper Composite Material Market: Company Product Type Footprint

Table 25. Tungsten Copper Composite Material Market: Company Product Application Footprint

Table 26. Tungsten Copper Composite Material Competitive Factors

Table 27. Tungsten Copper Composite Material New Entrant and Capacity Expansion Plans

Table 28. Tungsten Copper Composite Material Mergers & Acquisitions Activity

Table 29. United States VS China Tungsten Copper Composite Material Production Value Comparison, (2021 & 2025 & 2032) & (USD Million)

Table 30. United States VS China Tungsten Copper Composite Material Production Comparison, (2021 & 2025 & 2032) & (Tons)

Table 31. United States VS China Tungsten Copper Composite Material Consumption Comparison, (2021 & 2025 & 2032) & (Tons)

Table 32. United States Based Tungsten Copper Composite Material Manufacturers, Headquarters and Production Site (States, Country)

Table 33. United States Based Manufacturers Tungsten Copper Composite Material Production Value, (2021-2026) & (USD Million)

Table 34. United States Based Manufacturers Tungsten Copper Composite Material Production Value Market Share (2021-2026)

Table 35. United States Based Manufacturers Tungsten Copper Composite Material Production (2021-2026) & (Tons)

Table 36. United States Based Manufacturers Tungsten Copper Composite Material Production Market Share (2021-2026)

Table 37. China Based Tungsten Copper Composite Material Manufacturers, Headquarters and Production Site (Province, Country)

Table 38. China Based Manufacturers Tungsten Copper Composite Material Production Value, (2021-2026) & (USD Million)

Table 39. China Based Manufacturers Tungsten Copper Composite Material Production Value Market Share (2021-2026)

Table 40. China Based Manufacturers Tungsten Copper Composite Material Production, (2021-2026) & (Tons)

Table 41. China Based Manufacturers Tungsten Copper Composite Material Production Market Share (2021-2026)

Table 42. Rest of World Based Tungsten Copper Composite Material Manufacturers, Headquarters and Production Site (State, Country)

Table 43. Rest of World Based Manufacturers Tungsten Copper Composite Material Production Value, (2021-2026) & (USD Million)

Table 44. Rest of World Based Manufacturers Tungsten Copper Composite Material Production Value Market Share (2021-2026)

Table 45. Rest of World Based Manufacturers Tungsten Copper Composite Material Production, (2021-2026) & (Tons)

Table 46. Rest of World Based Manufacturers Tungsten Copper Composite Material Production Market Share (2021-2026)

Table 47. World Tungsten Copper Composite Material Production Value by Type, (USD Million), 2021 & 2025 & 2032

Table 48. World Tungsten Copper Composite Material Production by Type (2021-2026) & (Tons)

Table 49. World Tungsten Copper Composite Material Production by Type (2027-2032) & (Tons)

Table 50. World Tungsten Copper Composite Material Production Value by Type (2021-2026) & (USD Million)

Table 51. World Tungsten Copper Composite Material Production Value by Type (2027-2032) & (USD Million)

Table 52. World Tungsten Copper Composite Material Average Price by Type (2021-2026) & (US\$/Kg)

Table 53. World Tungsten Copper Composite Material Average Price by Type (2027-2032) & (US\$/Kg)

Table 54. World Tungsten Copper Composite Material Production Value by Synthetic Process, (USD Million), 2021 & 2025 & 2032

Table 55. World Tungsten Copper Composite Material Production by Synthetic Process (2021-2026) & (Tons)

Table 56. World Tungsten Copper Composite Material Production by Synthetic Process (2027-2032) & (Tons)

Table 57. World Tungsten Copper Composite Material Production Value by Synthetic Process (2021-2026) & (USD Million)

Table 58. World Tungsten Copper Composite Material Production Value by Synthetic Process (2027-2032) & (USD Million)

Table 59. World Tungsten Copper Composite Material Average Price by Synthetic

Process (2021-2026) & (US\$/Kg)

Table 60. World Tungsten Copper Composite Material Average Price by Synthetic Process (2027-2032) & (US\$/Kg)

Table 61. World Tungsten Copper Composite Material Production Value by Thermal Conductivity, (USD Million), 2021 & 2025 & 2032

Table 62. World Tungsten Copper Composite Material Production by Thermal Conductivity (2021-2026) & (Tons)

Table 63. World Tungsten Copper Composite Material Production by Thermal Conductivity (2027-2032) & (Tons)

Table 64. World Tungsten Copper Composite Material Production Value by Thermal Conductivity (2021-2026) & (USD Million)

Table 65. World Tungsten Copper Composite Material Production Value by Thermal Conductivity (2027-2032) & (USD Million)

Table 66. World Tungsten Copper Composite Material Average Price by Thermal Conductivity (2021-2026) & (US\$/Kg)

Table 67. World Tungsten Copper Composite Material Average Price by Thermal Conductivity (2027-2032) & (US\$/Kg)

Table 68. World Tungsten Copper Composite Material Production Value by Application, (USD Million), 2021 & 2025 & 2032

Table 69. World Tungsten Copper Composite Material Production by Application (2021-2026) & (Tons)

Table 70. World Tungsten Copper Composite Material Production by Application (2027-2032) & (Tons)

Table 71. World Tungsten Copper Composite Material Production Value by Application (2021-2026) & (USD Million)

Table 72. World Tungsten Copper Composite Material Production Value by Application (2027-2032) & (USD Million)

Table 73. World Tungsten Copper Composite Material Average Price by Application (2021-2026) & (US\$/Kg)

Table 74. World Tungsten Copper Composite Material Average Price by Application (2027-2032) & (US\$/Kg)

Table 75. ALMT Corp Basic Information, Manufacturing Base and Competitors

Table 76. ALMT Corp Major Business

Table 77. ALMT Corp Tungsten Copper Composite Material Product and Services

Table 78. ALMT Corp Tungsten Copper Composite Material Production (Tons), Price (US\$/Kg), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 79. ALMT Corp Recent Developments/Updates

Table 80. ALMT Corp Competitive Strengths & Weaknesses

Table 81. AMETEK Basic Information, Manufacturing Base and Competitors

Table 82. AMETEK Major Business

Table 83. AMETEK Tungsten Copper Composite Material Product and Services

Table 84. AMETEK Tungsten Copper Composite Material Production (Tons), Price (US\$/Kg), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 85. AMETEK Recent Developments/Updates

Table 86. AMETEK Competitive Strengths & Weaknesses

Table 87. Negele Hartmetall-Technik GmbH Basic Information, Manufacturing Base and Competitors

Table 88. Negele Hartmetall-Technik GmbH Major Business

Table 89. Negele Hartmetall-Technik GmbH Tungsten Copper Composite Material Product and Services

Table 90. Negele Hartmetall-Technik GmbH Tungsten Copper Composite Material Production (Tons), Price (US\$/Kg), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 91. Negele Hartmetall-Technik GmbH Recent Developments/Updates

Table 92. Negele Hartmetall-Technik GmbH Competitive Strengths & Weaknesses

Table 93. H.C. Starck Hermsdorf GmbH Basic Information, Manufacturing Base and Competitors

Table 94. H.C. Starck Hermsdorf GmbH Major Business

Table 95. H.C. Starck Hermsdorf GmbH Tungsten Copper Composite Material Product and Services

Table 96. H.C. Starck Hermsdorf GmbH Tungsten Copper Composite Material Production (Tons), Price (US\$/Kg), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 97. H.C. Starck Hermsdorf GmbH Recent Developments/Updates

Table 98. H.C. Starck Hermsdorf GmbH Competitive Strengths & Weaknesses

Table 99. ATT Advanced Elemental Materials Basic Information, Manufacturing Base and Competitors

Table 100. ATT Advanced Elemental Materials Major Business

Table 101. ATT Advanced Elemental Materials Tungsten Copper Composite Material Product and Services

Table 102. ATT Advanced Elemental Materials Tungsten Copper Composite Material Production (Tons), Price (US\$/Kg), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 103. ATT Advanced Elemental Materials Recent Developments/Updates

Table 104. ATT Advanced Elemental Materials Competitive Strengths & Weaknesses

Table 105. Santier Basic Information, Manufacturing Base and Competitors

Table 106. Santier Major Business

Table 107. Santier Tungsten Copper Composite Material Product and Services

Table 108. Santier Tungsten Copper Composite Material Production (Tons), Price (US\$/Kg), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 109. Santier Recent Developments/Updates

Table 110. Santier Competitive Strengths & Weaknesses

Table 111. ATTL Advanced Materials Basic Information, Manufacturing Base and Competitors

Table 112. ATTL Advanced Materials Major Business

Table 113. ATTL Advanced Materials Tungsten Copper Composite Material Product and Services

Table 114. ATTL Advanced Materials Tungsten Copper Composite Material Production (Tons), Price (US\$/Kg), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 115. ATTL Advanced Materials Recent Developments/Updates

Table 116. ATTL Advanced Materials Competitive Strengths & Weaknesses

Table 117. Shaanxi Puwei Electronic Technology Basic Information, Manufacturing Base and Competitors

Table 118. Shaanxi Puwei Electronic Technology Major Business

Table 119. Shaanxi Puwei Electronic Technology Tungsten Copper Composite Material Product and Services

Table 120. Shaanxi Puwei Electronic Technology Tungsten Copper Composite Material Production (Tons), Price (US\$/Kg), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 121. Shaanxi Puwei Electronic Technology Recent Developments/Updates

Table 122. Shaanxi Puwei Electronic Technology Competitive Strengths & Weaknesses

Table 123. Changsha Saneway Electronic Materials Basic Information, Manufacturing Base and Competitors

Table 124. Changsha Saneway Electronic Materials Major Business

Table 125. Changsha Saneway Electronic Materials Tungsten Copper Composite Material Product and Services

Table 126. Changsha Saneway Electronic Materials Tungsten Copper Composite Material Production (Tons), Price (US\$/Kg), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 127. Changsha Saneway Electronic Materials Recent Developments/Updates

Table 128. Changsha Saneway Electronic Materials Competitive Strengths & Weaknesses

Table 129. Luoyang Combat Tungsten & Molybdenum Materials Basic Information, Manufacturing Base and Competitors

Table 130. Luoyang Combat Tungsten & Molybdenum Materials Major Business

Table 131. Luoyang Combat Tungsten & Molybdenum Materials Tungsten Copper

## Composite Material Product and Services

Table 132. Luoyang Combat Tungsten & Molybdenum Materials Tungsten Copper Composite Material Production (Tons), Price (US\$/Kg), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 133. Luoyang Combat Tungsten & Molybdenum Materials Recent Developments/Updates

Table 134. Luoyang Combat Tungsten & Molybdenum Materials Competitive Strengths & Weaknesses

Table 135. Starshining Advanced Materials Basic Information, Manufacturing Base and Competitors

Table 136. Starshining Advanced Materials Major Business

Table 137. Starshining Advanced Materials Tungsten Copper Composite Material Product and Services

Table 138. Starshining Advanced Materials Tungsten Copper Composite Material Production (Tons), Price (US\$/Kg), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 139. Starshining Advanced Materials Recent Developments/Updates

Table 140. Starshining Advanced Materials Competitive Strengths & Weaknesses

Table 141. Xinchao Wei New Materials Technology Basic Information, Manufacturing Base and Competitors

Table 142. Xinchao Wei New Materials Technology Major Business

Table 143. Xinchao Wei New Materials Technology Tungsten Copper Composite Material Product and Services

Table 144. Xinchao Wei New Materials Technology Tungsten Copper Composite Material Production (Tons), Price (US\$/Kg), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 145. Xinchao Wei New Materials Technology Recent Developments/Updates

Table 146. Xinchao Wei New Materials Technology Competitive Strengths & Weaknesses

Table 147. Global Key Players of Tungsten Copper Composite Material Upstream (Raw Materials)

Table 148. Global Tungsten Copper Composite Material Typical Customers

Table 149. Tungsten Copper Composite Material Typical Distributors

## List Of Figures

### LIST OF FIGURES

- Figure 1. Tungsten Copper Composite Material Picture
- Figure 2. World Tungsten Copper Composite Material Production Value: 2021 & 2025 & 2032, (USD Million)
- Figure 3. World Tungsten Copper Composite Material Production Value and Forecast (2021-2032) & (USD Million)
- Figure 4. World Tungsten Copper Composite Material Production (2021-2032) & (Tons)
- Figure 5. World Tungsten Copper Composite Material Average Price (2021-2032) & (US\$/Kg)
- Figure 6. World Tungsten Copper Composite Material Production Value Market Share by Region (2021-2032)
- Figure 7. World Tungsten Copper Composite Material Production Market Share by Region (2021-2032)
- Figure 8. North America Tungsten Copper Composite Material Production (2021-2032) & (Tons)
- Figure 9. Europe Tungsten Copper Composite Material Production (2021-2032) & (Tons)
- Figure 10. China Tungsten Copper Composite Material Production (2021-2032) & (Tons)
- Figure 11. Japan Tungsten Copper Composite Material Production (2021-2032) & (Tons)
- Figure 12. India Tungsten Copper Composite Material Production (2021-2032) & (Tons)
- Figure 13. Southeast Asia Tungsten Copper Composite Material Production (2021-2032) & (Tons)
- Figure 14. Tungsten Copper Composite Material Market Drivers
- Figure 15. Factors Affecting Demand
- Figure 16. World Tungsten Copper Composite Material Consumption (2021-2032) & (Tons)
- Figure 17. World Tungsten Copper Composite Material Consumption Market Share by Region (2021-2032)
- Figure 18. United States Tungsten Copper Composite Material Consumption (2021-2032) & (Tons)
- Figure 19. China Tungsten Copper Composite Material Consumption (2021-2032) & (Tons)
- Figure 20. Europe Tungsten Copper Composite Material Consumption (2021-2032) & (Tons)

Figure 21. Japan Tungsten Copper Composite Material Consumption (2021-2032) & (Tons)

Figure 22. South Korea Tungsten Copper Composite Material Consumption (2021-2032) & (Tons)

Figure 23. ASEAN Tungsten Copper Composite Material Consumption (2021-2032) & (Tons)

Figure 24. India Tungsten Copper Composite Material Consumption (2021-2032) & (Tons)

Figure 25. Producer Shipments of Tungsten Copper Composite Material by Manufacturer Revenue (\$MM) and Market Share (%): 2025

Figure 26. Global Four-firm Concentration Ratios (CR4) for Tungsten Copper Composite Material Markets in 2025

Figure 27. Global Four-firm Concentration Ratios (CR8) for Tungsten Copper Composite Material Markets in 2025

Figure 28. United States VS China: Tungsten Copper Composite Material Production Value Market Share Comparison (2021 & 2025 & 2032)

Figure 29. United States VS China: Tungsten Copper Composite Material Production Market Share Comparison (2021 & 2025 & 2032)

Figure 30. United States VS China: Tungsten Copper Composite Material Consumption Market Share Comparison (2021 & 2025 & 2032)

Figure 31. United States Based Manufacturers Tungsten Copper Composite Material Production Market Share 2025

Figure 32. China Based Manufacturers Tungsten Copper Composite Material Production Market Share 2025

Figure 33. Rest of World Based Manufacturers Tungsten Copper Composite Material Production Market Share 2025

Figure 34. World Tungsten Copper Composite Material Production Value by Type, (USD Million), 2021 & 2025 & 2032

Figure 35. World Tungsten Copper Composite Material Production Value Market Share by Type in 2025

Figure 36. Copper Content 200W/(M.K)

Figure 53. World Tungsten Copper Composite Material Production Market Share by Thermal Conductivity (2021-2032)

Figure 54. World Tungsten Copper Composite Material Production Value Market Share by Thermal Conductivity (2021-2032)

Figure 55. World Tungsten Copper Composite Material Average Price by Thermal Conductivity (2021-2032) & (US\$/Kg)

Figure 56. World Tungsten Copper Composite Material Production Value by Application, (USD Million), 2021 & 2025 & 2032

Figure 57. World Tungsten Copper Composite Material Production Value Market Share by Application in 2025

Figure 58. Electronic Packaging

Figure 59. Heat Sink Material

Figure 60. Lead Frame

Figure 61. Other

Figure 62. World Tungsten Copper Composite Material Production Market Share by Application (2021-2032)

Figure 63. World Tungsten Copper Composite Material Production Value Market Share by Application (2021-2032)

Figure 64. World Tungsten Copper Composite Material Average Price by Application (2021-2032) & (US\$/Kg)

Figure 65. Tungsten Copper Composite Material Industry Chain

Figure 66. Tungsten Copper Composite Material Procurement Model

Figure 67. Tungsten Copper Composite Material Sales Model

Figure 68. Tungsten Copper Composite Material Sales Channels, Direct Sales, and Distribution

Figure 69. Methodology

Figure 70. Research Process and Data Source

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