

Global Tungsten Copper Electronic Packaging Materials Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

<https://marketpublishers.com/r/GD8989366B9DEN.html>

Date: June 2026

Pages: 111

Price: US\$ 3,480.00 (Single User License)

ID: GD8989366B9DEN

Abstracts

According to our (Global Info Research) latest study, the global Tungsten Copper Electronic Packaging Materials market size was valued at US\$ 738 million in 2025 and is forecast to a readjusted size of US\$ 1077 million by 2032 with a CAGR of 5.6% during review period.

Tungsten copper electronic packaging material is a metal based composite material prepared by powder metallurgy process, which combines the low expansion and high strength of tungsten with the high thermal and electrical conductivity of copper. Its thermal expansion coefficient can be precisely matched with semiconductor materials through component adjustment, effectively solving the thermal management problem in high-power electronic device packaging, and playing an irreplaceable key role in high-end fields such as power semiconductors, 5G communication, optical modules, aerospace, etc. In 2025, global Tungsten Copper Electronic Packaging Materials 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 electronic packaging materials 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 · K), 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 × 10⁻⁶/°C) is close to that of silicon chips (4 × 10⁻⁶/°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 is a detailed and comprehensive analysis for global Tungsten Copper Electronic Packaging Materials market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

Key Features:

Global Tungsten Copper Electronic Packaging Materials market size and forecasts, in consumption value (\$ Million), sales quantity (Tons), and average selling prices (US\$/Kg), 2021-2032

Global Tungsten Copper Electronic Packaging Materials market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (Tons), and average selling prices (US\$/Kg), 2021-2032

Global Tungsten Copper Electronic Packaging Materials market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (Tons), and

average selling prices (US\$/Kg), 2021-2032

Global Tungsten Copper Electronic Packaging Materials market shares of main players, shipments in revenue (\$ Million), sales quantity (Tons), and ASP (US\$/Kg), 2021-2026

The Primary Objectives in This Report Are:

- To determine the size of the total market opportunity of global and key countries

- To assess the growth potential for Tungsten Copper Electronic Packaging Materials

- To forecast future growth in each product and end-use market

- To assess competitive factors affecting the marketplace

This report profiles key players in the global Tungsten Copper Electronic Packaging Materials market based on the following parameters - company overview, sales quantity, revenue, 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, ATTIL 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.

Market Segmentation

Tungsten Copper Electronic Packaging Materials market is split by Type and by Application. For the period 2021-2032, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Type

Copper Content200W/(M.K)

Market segment by Application

Electronic Packaging

Heat Sink Material

Lead Frame

Other

Major players covered

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

Market segment by region, regional analysis covers

North America (United States, Canada, and Mexico)

Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)

Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)

South America (Brazil, Argentina, Colombia, and Rest of South America)

Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

The content of the study subjects, includes a total of 15 chapters:

Chapter 1, to describe Tungsten Copper Electronic Packaging Materials product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Tungsten Copper Electronic Packaging Materials, with price, sales quantity, revenue, and global market share of Tungsten Copper Electronic Packaging Materials from 2021 to 2026.

Chapter 3, the Tungsten Copper Electronic Packaging Materials competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Tungsten Copper Electronic Packaging Materials breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2021 to 2032.

Chapter 5 and 6, to segment the sales by Type and by Application, with sales market share and growth rate by Type, by Application, from 2021 to 2032.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value, and market share for key countries in the world, from 2021 to 2026. and Tungsten Copper Electronic Packaging Materials

market forecast, by regions, by Type, and by Application, with sales and revenue, from 2027 to 2032.

Chapter 12, market dynamics, drivers, restraints, trends, and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of Tungsten Copper Electronic Packaging Materials.

Chapter 14 and 15, to describe Tungsten Copper Electronic Packaging Materials sales channel, distributors, customers, research findings and conclusion.

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