

Global Pressureless Copper Sintering Paste Supply, Demand and Key Producers, 2026-2032

<https://marketpublishers.com/r/G06CD2F09A51EN.html>

Date: August 2026

Pages: 126

Price: US\$ 4,480.00 (Single User License)

ID: G06CD2F09A51EN

Abstracts

The global Pressureless Copper Sintering Paste market size is expected to reach \$ 105 million by 2032, rising at a market growth of 13.1% CAGR during the forecast period (2026-2032).

Pressureless copper sintering paste is an advanced electronic packaging and connection material made by using micro copper powder, nano copper powder or micro nano composite copper particles as conductive fillers, combined with organic carriers, dispersants, antioxidant systems, sintering accelerators and functional additives. It can form a high-density copper connection layer by heating without applying external mechanical pressure or relying only on extremely low auxiliary pressure. It is mainly used for power semiconductor chip mounting, power module interconnection, and high thermal conductivity packaging. As an alternative to traditional high lead solder and partially sintered silver paste, it has the characteristics of good thermal conductivity, excellent electrical conductivity, high temperature resistance, thermal fatigue resistance, and lower cost than silver based materials. The current products are widely used in the packaging of wide bandgap power devices such as SiC, GaN, IGBT, as well as in fields such as new energy vehicles, power electronics, photovoltaic inverters, energy storage systems, and high-end industrial controls. With the development of antioxidant copper powder, air sintering, and low-temperature pressureless sintering technology, pressureless sintered copper paste is gradually meeting the conditions for industrial application. In 2025, global Pressureless Copper Sintering Paste production reached approximately 16.34 MT, with an average global market price of around US\$ 2,634 per kg. The annual production capacity of pressureless sintered copper paste is 25 tons, with a gross profit margin of about 40%.

The upstream mainly includes suppliers of high-purity copper raw materials, ultrafine

copper powder, nano copper powder, surface coating materials, organic solvents, dispersants, rheological agents, reducing agents, antioxidants, resins, and functional additives, as well as equipment enterprises such as powder preparation equipment, mixing equipment, and testing equipment.

Downstream applications mainly include power semiconductor packaging, SiC power devices, GaN power devices, IGBT modules, automotive electronics, electric vehicle drive systems, industrial inverters, photovoltaic inverters, energy storage systems, power modules, rail transportation, power electronics, aerospace, and high reliability electronic packaging.

From the perspective of cost structure, the cost of pressureless sintered copper paste is mainly composed of copper powder and nano copper materials, accounting for about 45% to 60%; Organic carriers, solvents, and functional additives account for about 15% to 20%; The production, manufacturing, and quality control costs account for approximately 10% to 15%; R&D investment, formula development, and intellectual property costs account for approximately 8% to 12%; Packaging, testing, transportation, and management costs account for approximately 5% to 10%.

Pressureless copper sintering paste is one of the most promising new interconnect materials in the field of advanced power semiconductor packaging, and its market growth is mainly driven by the demand for wide bandgap semiconductors, high power density packaging, and high reliability electronic systems. Compared to sintered silver paste, copper material has significant cost and resource advantages, making it a promising substitute for new energy vehicle main drive inverters, charging modules, photovoltaic inverters, energy storage converters, AI server power supplies, and industrial power supplies. However, copper is prone to oxidation, which has long limited its industrialization speed. Therefore, the design of anti-oxidation copper particles, air sintering process, low-temperature sintering system, and sintering process control have become the core of industry technology competition. The focus of future market competition will shift from material performance alone to material formulation, sintering window, porosity control, interface bonding strength, long-term thermal cycling reliability, and compatibility with existing packaging processes. With the continuous maturity of air sintering technology, anti-oxidation coating technology, and low-temperature pressureless sintering technology, pressureless sintering copper paste is expected to gradually expand its application proportion in SiC, GaN, and advanced power modules. However, in the short term, it still needs to undergo vehicle grade reliability verification, large-scale production verification, and packaging process optimization. Therefore, commercial introduction will show a gradual trend, and enterprises with copper powder

preparation, antioxidant formula, sintering process development, and customer certification capabilities will have a competitive advantage.

This report studies the global Pressureless Copper Sintering Paste production, demand, key manufacturers, and key regions.

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

Highlights and key features of the study

Global Pressureless Copper Sintering Paste total production and demand, 2021-2032, (Tons)

Global Pressureless Copper Sintering Paste total production value, 2021-2032, (USD Million)

Global Pressureless Copper Sintering Paste production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Tons), (based on production site)

Global Pressureless Copper Sintering Paste consumption by region & country, CAGR, 2021-2032 & (Tons)

U.S. VS China: Pressureless Copper Sintering Paste domestic production, consumption, key domestic manufacturers and share

Global Pressureless Copper Sintering Paste production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Tons)

Global Pressureless Copper Sintering Paste production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Tons)

Global Pressureless Copper Sintering Paste production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Tons)

This report profiles key players in the global Pressureless Copper Sintering Paste 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 Heraeus Electronics, Indium Corporation, Mitsuboshi Belting, Resonac Holdings Corporation, MITSUI KINZOKU, SCHLENK, MacDermid Alpha, Elephantech, Shenzhen Xinyuan New Materials, Shenzhen Jufeng Solder, 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 Pressureless Copper Sintering Paste 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 Pressureless Copper Sintering Paste Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Pressureless Copper Sintering Paste Market, Segmentation by Type:

Protective Atmosphere Sintering Copper Paste

Air Pressureless Sintered Copper Paste

Global Pressureless Copper Sintering Paste Market, Segmentation by Operation Process:

Dispensing Process

Printing Process

Global Pressureless Copper Sintering Paste Market, Segmentation by Application:

New Energy Vehicle

Industry and Rail Transit

RF and Optoelectronics

Other

Companies Profiled:

Heraeus Electronics

Indium Corporation

Mitsuboshi Belting

Resonac Holdings Corporation

MITSUI KINZOKU

SCHLENK

MacDermid Alpha

Elephantech

Shenzhen Xinyuan New Materials

Shenzhen Jufeng Solder

Qinglian Technology

Key Questions Answered:

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

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