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Global Pressure Sintering Paste Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

https://marketpublishers.com/r/G8DEEFD9451FEN.html
Date: August 2026
Pages: 162
Price: US$ 3,480.00 (Single User License)
ID: G8DEEFD9451FEN

Abstracts

According to our (Global Info Research) latest study, the global Pressure Sintering Paste market size was valued at US$ 559 million in 2025 and is forecast to a readjusted size of US$ 990 million by 2032 with a CAGR of 8.5% during review period.

Pressure sintering paste is a metal interconnect material used for power semiconductors and high reliability electronic packaging. It is usually composed of nano silver, micro silver, copper powder, silver copper composite powder, organic carrier, dispersant, reducing agent, and sintering aid. After printing, dispensing, or coating between chips, DBC substrates, AMB substrates, copper substrates, or electrodes, the metal particles are sintered and neck connected by heating and applying a certain external pressure, forming a metal connection layer with high thermal conductivity, high conductivity, low porosity, and high mechanical strength. Compared with ordinary solder, pressure sintered paste has higher high temperature resistance, better thermal cycle reliability, and lower thermal resistance. It is mainly used in SiC power modules, IGBT modules, GaN devices, automotive inverters, photovoltaic inverters, industrial power supplies, energy storage converters, rail transit, and aerospace electronic packaging scenarios. In 2025, global Pressure Sintering Paste production reached approximately 136.87 MT, with an average global market price of around US$ 3,967 per kg.The annual production capacity of pressure sintered paste is 200 tons, with a gross profit margin of about 45%.

Upstream suppliers mainly include high-purity silver, high-purity copper, nano silver powder, nano copper powder, silver copper composite powder, organic solvents, resins, dispersants, rheological agents, sintering agents, antioxidant materials, packaging materials, as well as equipment suppliers for powder preparation, mixing and

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dispersion, detection and analysis.

The downstream mainly includes SiC power devices, GaN power devices, IGBT modules, power semiconductor packaging enterprises, automotive electronics, electric vehicle drive systems, photovoltaic inverters, energy storage converters, industrial frequency converters, power modules, rail transportation, power electronics, aerospace, and defense electronics.

The cost of pressure sintering paste is mainly composed of metal powder, which accounts for about 55% to 70%; Organic carriers, resins, solvents, and functional additives account for approximately 10% to 15%; The production, manufacturing, and quality control costs account for approximately 8% to 12%; The cost of research and development, formula development, and reliability verification accounts for approximately 8% to 12%; Packaging, testing, transportation, and management costs account for approximately 5% to 10%.

The pressure sintering paste market is in a rapid growth stage driven by the demand for high-end power devices, with the core driving force coming from the continuous upgrading requirements of high thermal conductivity and high reliability interconnect materials for new energy vehicle main drive inverters, SiC power modules, industrial frequency converters, grid energy storage, and photovoltaic inverters. With the development of power semiconductors towards high voltage, high power density, and high operating junction temperature, the shortcomings of traditional tin based solder in terms of thermal fatigue, creep, and long-term reliability are gradually emerging. Pressure sintered paste, with its low thermal resistance, high melting point interconnect layer, and excellent thermal cycling performance, is becoming an important material choice for high-end power module packaging. The current market is still dominated by silver based pressure sintering paste, with high technological maturity and a complete customer certification system. However, fluctuations in silver prices and material cost pressures are driving companies to accelerate the development of copper based, silver copper composite, and low silver formulations. The focus of future competition will be on low-temperature sintering, low-pressure window, low porosity, anti-oxidation stability, vehicle grade reliability verification, and batch consistency control. Overall, in the short term, this product will still prioritize penetration into the fields of new energy vehicles, third-generation semiconductors, and high-end industrial power electronics. In the medium to long term, it is expected to gradually expand to larger scale, lower cost, and wider application scenarios as packaging equipment, substrate materials, and domestic powder systems mature.

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This report is a detailed and comprehensive analysis for global Pressure Sintering Paste 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 Pressure Sintering Paste market size and forecasts, in consumption value ($ Million), sales quantity (Tons), and average selling prices (US$/Kg), 2021-2032

Global Pressure Sintering Paste market size and forecasts by region and country, in consumption value ($ Million), sales quantity (Tons), and average selling prices (US$/Kg), 2021-2032

Global Pressure Sintering Paste 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 Pressure Sintering Paste 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 Pressure Sintering Paste

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 Pressure Sintering Paste 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 Heraeus Electronics, Indium

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Corporation, Mitsuboshi Belting, Resonac Holdings Corporation, Nihon Superior, MacDermid Alpha, Henkel, MITSUI KINZOKU, SCHLENK, KYOCERA Corporation, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Market Segmentation

Pressure Sintering Paste 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

Pressure Sintered Copper Paste

Pressure Sintered Silver Paste

Market segment by Application Area

Chip Level Pressure Sintering Paste

System Level Pressure Sintering Paste

Market segment by Operation Process

Dispensing Process

Printing Process

Market segment by Application

New Energy Vehicle Power Module

AI Chip

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5G Communication & Data Center

Consumer Electronics

Aerospace and Military Industry

Other

Major players covered

Heraeus Electronics

Indium Corporation

Mitsuboshi Belting

Resonac Holdings Corporation

Nihon Superior

MacDermid Alpha

Henkel

MITSUI KINZOKU

SCHLENK

KYOCERA Corporation

NAMICS CORPORATION

TANAKA PRECIOUS METAL GROUP

Bando Chemical Industries

NBE Tech

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Elephantech

Shenzhen Xinyuan New Materials

Solderwell Advanced Materials

Shenzhen Jufeng Solder

Qinglian Technology

Shenzhen Advanced Joining Technology

Chongqing Pingchuang Institute of Semiconductors

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 Pressure Sintering Paste product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Pressure Sintering Paste, with price, sales quantity, revenue, and global market share of Pressure Sintering Paste from 2021 to 2026.

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Chapter 3, the Pressure Sintering Paste competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Pressure Sintering Paste 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 Pressure Sintering Paste 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 Pressure Sintering Paste.

Chapter 14 and 15, to describe Pressure Sintering Paste sales channel, distributors, customers, research findings and conclusion.

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