

# Global Pressure-less Sintering Die Attach Adhesives Supply, Demand and Key Producers, 2026-2032

<https://marketpublishers.com/r/GFC7D441794FEN.html>

Date: April 2026

Pages: 161

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

ID: GFC7D441794FEN

## Abstracts

The global Pressure-less Sintering Die Attach Adhesives market size is expected to reach \$ 414 million by 2032, rising at a market growth of 5.6% CAGR during the forecast period (2026-2032).

In 2025, global Pressure-less Sintering Die Attach Adhesives production reached approximately 50 tons with an average global market price of around US\$ 5,500 per kg, and a gross profit margin of approximately 20%-40%. Pressure-less Sintering Die Attach Adhesives are sinterable bonding materials that form a metal-like joint between a semiconductor die and a substrate without applying external pressure during the bonding process. They typically rely on silver or hybrid metallic particles that densify during thermal processing, creating high thermal conductivity and stable electrical conduction. Compared with conventional epoxy die attach, pressure-less sintering solutions deliver better high-temperature endurance and improved resistance to thermal cycling. They are widely used in high-power, high-reliability packages such as automotive power modules, wide-bandgap devices, and industrial converters where heat dissipation and long-term joint integrity are critical. The industrial chain of Pressure-less Sintering Die Attach Adhesives includes upstream metal powders or flakes, organic binders, solvents, dispersants, additives for rheology control, packaging consumables, and clean processing equipment. The midstream covers formulation design, particle dispersion, viscosity and thixotropy control, filtration, contamination control, and packaging into syringes, cartridges, or films, supported by process development for printing/dispensing and thermal profiles. Downstream users include semiconductor packaging lines, power module assembly, automotive electronics manufacturing, and industrial power systems. Supporting services include application engineering, void control, reliability validation, and process optimization for yield and consistency.

The pressure-less sintering die attach market is growing as power electronics move toward higher power density and higher operating temperatures, especially with wider adoption of SiC and GaN devices. Customers increasingly prefer sintered joints for their high thermal conductivity and stable performance under thermal cycling, which helps reduce junction temperature and extend module lifetime. Technology development focuses on improving sinterability at lower temperatures, reducing voiding, enhancing wetting to different metallizations, and strengthening reliability under humidity and power cycling. Procurement decisions emphasize process window robustness, automation compatibility, cleanliness control, and traceability because yield loss in power modules is costly. Cost remains a constraint due to precious metal content and tight quality requirements, so suppliers compete through formulation efficiency, consistency, and technical support for customer process tuning. Overall, adoption is expected to accelerate in automotive traction inverters, fast charging, renewable energy inverters, and industrial drives as reliability standards tighten.

This report studies the global Pressure-less Sintering Die Attach Adhesives production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Pressure-less Sintering Die Attach Adhesives 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 Pressure-less Sintering Die Attach Adhesives that contribute to its increasing demand across many markets.

### **Highlights and key features of the study**

Global Pressure-less Sintering Die Attach Adhesives total production and demand, 2021-2032, (Tons)

Global Pressure-less Sintering Die Attach Adhesives total production value, 2021-2032, (USD Million)

Global Pressure-less Sintering Die Attach Adhesives production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Tons), (based on production site)

Global Pressure-less Sintering Die Attach Adhesives consumption by region & country, CAGR, 2021-2032 & (Tons)

U.S. VS China: Pressure-less Sintering Die Attach Adhesives domestic production, consumption, key domestic manufacturers and share

Global Pressure-less Sintering Die Attach Adhesives production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Tons)

Global Pressure-less Sintering Die Attach Adhesives production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Tons)

Global Pressure-less Sintering Die Attach Adhesives production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Tons)

This report profiles key players in the global Pressure-less Sintering Die Attach Adhesives 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 Henkel, Heraeus, NAMICS, Resonac, MacDermid Alpha, Sumitomo Bakelite, Indium, Kyocera, Creative Materials, Qnity, 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 Pressure-less Sintering Die Attach Adhesives 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 Pressure-less Sintering Die Attach Adhesives Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Pressure-less Sintering Die Attach Adhesives Market, Segmentation by Type:

Up to 100 W/m-K

Up to 110 W/m-K

Others

Global Pressure-less Sintering Die Attach Adhesives Market, Segmentation by Form:

Die Attach Film

Die Attach Paste

Others

Global Pressure-less Sintering Die Attach Adhesives Market, Segmentation by Electrical Conductivity:

Conductive Die Attach Adhesives

Non-Conductive Die Attach Adhesives

## Global Pressure-less Sintering Die Attach Adhesives Market, Segmentation by Application:

Power Semiconductor Device

RF Power Device

High Performance LED

Others

## Companies Profiled:

Henkel

Heraeus

NAMICS

Resonac

MacDermid Alpha

Sumitomo Bakelite

Indium

Kyocera

Creative Materials

Qnity

DELO

Hoenle

AI Technology

CollTech Group

LG Chemical

Shin-Etsu Chemical

Nitto Denko

TANAKA Precious Metals

LINTEC

Inkron

Furukawa Electric

Yongoo Technology

**Key Questions Answered:**

1. How big is the global Pressure-less Sintering Die Attach Adhesives market?
2. What is the demand of the global Pressure-less Sintering Die Attach Adhesives market?
3. What is the year over year growth of the global Pressure-less Sintering Die Attach Adhesives market?
4. What is the production and production value of the global Pressure-less Sintering Die Attach Adhesives market?
5. Who are the key producers in the global Pressure-less Sintering Die Attach Adhesives market?
6. What are the growth factors driving the market demand?

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