

Global Low Temperature Sealing Glass Paste Market Growth 2026-2032

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Abstracts

The global Low Temperature Sealing Glass Paste market size is predicted to grow from US\$ 35.61 million in 2025 to US\$ 47.27 million in 2032; it is expected to grow at a CAGR of 4.1% from 2026 to 2032.

In 2025, global sales volume of Low Temperature Sealing Glass Paste was approximately 1,400 metric tons, with a blended ex-factory price of around USD 26 per kilogram. Gross margins of major manufacturers were approximately 35%–48%.

Low Temperature Sealing Glass Paste is a ready-to-use functional paste formulated with low-melting-point or low-softening-point glass powder as the principal inorganic component, together with ceramic filler, organic vehicle, solvent, and rheological additive. It is generally suitable for screen printing, dispensing, and coating processes. The product typically undergoes binder burnout and firing at temperatures not exceeding 500°C. During firing, the glass particle softens and wets the substrate, forming a continuous and dense glassy sealing layer after cooling. This layer provides bonding, structural fixation, electrical insulation, and hermetic sealing between components. The relatively low sealing temperature reduces the overall thermal load on the device, minimizes stress, warpage, and cracking caused by thermal expansion mismatch among glass, ceramic, metal, and semiconductor chip, protects temperature-sensitive component, suppresses metal oxidation, undesirable interfacial reaction, and material degradation, and lowers firing energy consumption.

The upstream supply chain of Low Temperature Sealing Glass Paste mainly includes low-melting-point glass frit or glass powder, oxide and ceramic filler, organic resin, solvent, dispersant, thickener, and other functional additive, as well as equipment for glass melting, powder grinding, particle-size classification, paste mixing, and

deaeration. Downstream demand primarily comes from the packaging and assembly of electronic device and precision component. Printing, dispensing, pre-drying, and firing processes are used to bond and seal sensor, semiconductor package, optoelectronic device, display device, and vacuum device.

United States market for Low Temperature Sealing Glass Paste is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

China market for Low Temperature Sealing Glass Paste is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

Europe market for Low Temperature Sealing Glass Paste is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

Global key Low Temperature Sealing Glass Paste players cover AGC, Matsunami Glass Industries, Vibrantz Technologies, YEKGLASS, Okamoto Glass, etc. In terms of revenue, the global two largest companies occupied for a share nearly % in 2025.

Report Scope

LP Information, Inc. (LPI) ' newest research report, the "Low Temperature Sealing Glass Paste Industry Forecast" looks at past sales and reviews total world Low Temperature Sealing Glass Paste sales in 2025, providing a comprehensive analysis by region and market sector of projected Low Temperature Sealing Glass Paste sales for 2026 through 2032. With Low Temperature Sealing Glass Paste sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world Low Temperature Sealing Glass Paste industry.

This Insight Report provides a comprehensive analysis of the global Low Temperature Sealing Glass Paste landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyzes the strategies of leading global companies with a focus on Low Temperature Sealing Glass Paste portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Low Temperature Sealing Glass Paste market.

This Insight Report evaluates the key market trends, drivers, and affecting factors

shaping the global outlook for Low Temperature Sealing Glass Paste and breaks down the forecast by Type, by Application, geography, and market size to highlight emerging pockets of opportunity. With a transparent methodology based on hundreds of bottom-up qualitative and quantitative market inputs, this study forecast offers a highly nuanced view of the current state and future trajectory in the global Low Temperature Sealing Glass Paste.

This report presents a comprehensive overview, market shares, and growth opportunities of Low Temperature Sealing Glass Paste market by product type, application, key manufacturers and key regions and countries.

Market Segmentation

Segmentation by Type:

Lead-containing Type (Lead Borosilicate-based)

Lead-free Type (Bismuth-based, Tellurium–Vanadium-based, Phosphate-based)

Segmentation by Firing Temperature:

Ultra-low-temperature ($<400^{\circ}\text{C}$)

Low-temperature ($400\text{--}450^{\circ}\text{C}$)

Medium-low-temperature ($450\text{--}500^{\circ}\text{C}$)

Segmentation by Coefficient of Thermal Expansion:

Low-expansion ($<80 \times 10^{-6}/^{\circ}\text{C}$)

Medium-expansion ($80\text{--}100 \times 10^{-6}/^{\circ}\text{C}$)

High-expansion ($>100 \times 10^{-6}/^{\circ}\text{C}$)

Segmentation by Application:

Sensor

Semiconductor Packaging

Optoelectronic Device

Display Device

Vacuum Device

Other

This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

APAC

China

Japan

Korea

Southeast Asia

India

Australia

Europe

Germany

France

UK

Italy

Russia

Middle East & Africa

Egypt

South Africa

Israel

Turkey

GCC Countries

The below companies that are profiled have been selected based on inputs gathered from primary experts and analysing the company's coverage, product portfolio, its market penetration.

AGC

Matsunami Glass Industries

Vibrantz Technologies

YEKGLASS

Okamoto Glass

Beijing Tianlichuang Glass Technology Development

Hyperion Tech

Key Questions Addressed in this Report

What is the 10-year outlook for the global Low Temperature Sealing Glass Paste market?

What factors are driving Low Temperature Sealing Glass Paste market growth, globally and by region?

Which technologies are poised for the fastest growth by market and region?

How do Low Temperature Sealing Glass Paste market opportunities vary by end market size?

How does Low Temperature Sealing Glass Paste break out by Type, by Application?

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