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Global Low Temperature Sealing Glass Paste Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

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Abstracts

According to our (Global Info Research) latest study, the global Low Temperature Sealing Glass Paste market size was valued at US$ 37.45 million in 2025 and is forecast to a readjusted size of US$ 49.03 million by 2032 with a CAGR of 3.9% during review period.

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,

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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.

Report Scope

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

Global Low Temperature Sealing Glass 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 Low Temperature Sealing Glass 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 Low Temperature Sealing Glass 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:

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

To assess the growth potential for Low Temperature Sealing Glass 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 Low Temperature Sealing Glass 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 AGC, Matsunami Glass Industries, Vibrantz Technologies, YEKGLASS, Okamoto Glass, Beijing Tianlichuang Glass Technology Development, Hyperion Tech, etc.

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

Low Temperature Sealing Glass 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 Segmentation

Market segment by Type

Lead-containing Type (Lead Borosilicate-based)

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

Market segment by Firing Temperature

Ultra-low-temperature (?400°C)

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Low-temperature (>400–450°C)

Medium-low-temperature (>450–500°C)

Market segment by Coefficient of Thermal Expansion

Low-expansion (?80 × 10??/°C)

Medium-expansion (>80–100 × 10??/°C)

High-expansion (>100 × 10??/°C)

Market segment by Application

Sensor

Semiconductor Packaging

Optoelectronic Device

Display Device

Vacuum Device

Other

Major players covered

AGC

Matsunami Glass Industries

Vibrantz Technologies

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YEKGLASS

Okamoto Glass

Beijing Tianlichuang Glass Technology Development

Hyperion Tech

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)

Chapter Outline

Chapter 1, to describe Low Temperature Sealing Glass Paste product scope, market overview, market estimation caveats and base year.
Chapter 2, to profile the top manufacturers of Low Temperature Sealing Glass Paste, with price, sales quantity, revenue, and global market share of Low Temperature Sealing Glass Paste from 2021 to 2026.
Chapter 3, the Low Temperature Sealing Glass Paste competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.
Chapter 4, the Low Temperature Sealing Glass 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.

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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 Low Temperature Sealing Glass 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 Low Temperature Sealing Glass Paste.
Chapter 14 and 15, to describe Low Temperature Sealing Glass Paste sales channel, distributors, customers, research findings and conclusion.

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