

# Global Automotive Glass Black Ceramic Frit Supply, Demand and Key Producers, 2026-2032

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## Abstracts

The global Automotive Glass Black Ceramic Frit market size is expected to reach \$ 1388 million by 2032, rising at a market growth of 7.1% CAGR during the forecast period (2026-2032).

Global sales of automotive glass black ceramic frit reached 22,960 tons in 2025, with an average price of \$36,425 per ton.

Automotive glass black ceramic frit refers to a series of black glaze dots or areas on the edges and surface of automotive glass. These are ceramic materials that fuse with the glass after high-temperature firing. Their main functions are to ensure even heating, protect sealing strips, block strong light, and conceal sensors in high-end vehicles, rather than decoration. Furthermore, their manufacturing process is complex, and high-quality black frost cannot be removed.

The 'functional powder' of lead-free black glaze accounts for 65–80% of the formula, and is composed of Bi<sub>2</sub>O<sub>3</sub>-SiO<sub>2</sub>-ZnO-B<sub>2</sub>O<sub>3</sub> series glass powder (D50=1.5 μm) and 20–25% inorganic black pigment (Cu-Cr-Mn or Fe-Cr-Co oxides). The organic carrier comprises 17–34%, which is ethyl cellulose/rosin resin dissolved in solvents such as propylene glycol methyl ether acetate, used for screen printing flowability and drying strength. In the overall raw material cost, bismuth oxide and ultrafine black pigment account for more than 60%, organic carrier and microcrystalline additives account for 15%, and the remainder is for energy consumption, labor, and equipment depreciation. Due to the large fluctuations in bismuth prices, the price of commercially available lead-free black glaze paste is still about 20–30% higher than that of lead-containing systems, but it can meet the stringent requirements of acid resistance >40 h and thermal expansion coefficient (85–95) × 10<sup>-6</sup> /°C for complete vehicle assembly.

This report studies the global Automotive Glass Black Ceramic Frit production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Automotive Glass Black Ceramic Frit 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 Automotive Glass Black Ceramic Frit that contribute to its increasing demand across many markets.

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

Global Automotive Glass Black Ceramic Frit total production and demand, 2021-2032, (Tons)

Global Automotive Glass Black Ceramic Frit total production value, 2021-2032, (USD Million)

Global Automotive Glass Black Ceramic Frit production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Tons), (based on production site)

Global Automotive Glass Black Ceramic Frit consumption by region & country, CAGR, 2021-2032 & (Tons)

U.S. VS China: Automotive Glass Black Ceramic Frit domestic production, consumption, key domestic manufacturers and share

Global Automotive Glass Black Ceramic Frit production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Tons)

Global Automotive Glass Black Ceramic Frit production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Tons)

Global Automotive Glass Black Ceramic Frit production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Tons)

This report profiles key players in the global Automotive Glass Black Ceramic Frit 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 Fenzi Group, Vibrantz Technologies, Dip-Tech, Johnson Matthey, Sun Chemical, Torrecid, Akcoat, Pemco Italy, Ferro, Sokan New Materials Group, 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 Automotive Glass Black Ceramic Frit market

**Detailed Segmentation:**

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (Tons) and average price (US\$/Ton) 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 Automotive Glass Black Ceramic Frit Market, By Region:**

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

**Global Automotive Glass Black Ceramic Frit Market, Segmentation by Type:**

Hot Bending Type

Tempered Type

**Global Automotive Glass Black Ceramic Frit Market, Segmentation by Environmental Properties:**

Lead Containing

Lead Free

Global Automotive Glass Black Ceramic Frit Market, Segmentation by Functional Parts:

Windshield

Side and Rear Windows

Sunroof

Global Automotive Glass Black Ceramic Frit Market, Segmentation by Application:

OEM

Aftermarket

Companies Profiled:

Fenzi Group

Vibrantz Technologies

Dip-Tech

Johnson Matthey

Sun Chemical

Torreco

Akcoat

Pemco Italy

Ferro

Sokan New Materials Group

Kunshan Belleview Application Materials

OCTOPUS

Xiamen Hansenda

Jiangsu Baifu

Chenguang New Materials

**Key Questions Answered:**

1. How big is the global Automotive Glass Black Ceramic Frit market?
2. What is the demand of the global Automotive Glass Black Ceramic Frit market?
3. What is the year over year growth of the global Automotive Glass Black Ceramic Frit market?
4. What is the production and production value of the global Automotive Glass Black Ceramic Frit market?
5. Who are the key producers in the global Automotive Glass Black Ceramic Frit market?
6. What are the growth factors driving the market demand?

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