

# Global Automotive Black Ceramic Frit Market Growth 2026-2032

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## Abstracts

The global Automotive Black Ceramic Frit market size is predicted to grow from US\$ 818 million in 2025 to US\$ 1352 million in 2032; it is expected to grow at a CAGR of 7.6% from 2026 to 2032.

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

Automotive 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 (D<sub>50</sub> 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.

United States market for Automotive Black Ceramic Frit 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 Automotive Black Ceramic Frit 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 Automotive Black Ceramic Frit is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

Global key Automotive Black Ceramic Frit players cover Fenzi Group, Vibrantz Technologies, Dip-Tech, Johnson Matthey, Sun Chemical, etc. In terms of revenue, the global two largest companies occupied for a share nearly % in 2025.

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

This Insight Report provides a comprehensive analysis of the global Automotive Black Ceramic Frit 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 Automotive Black Ceramic Frit portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Automotive Black Ceramic Frit market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Automotive Black Ceramic Frit 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 Automotive Black Ceramic Frit.

This report presents a comprehensive overview, market shares, and growth

opportunities of Automotive Black Ceramic Frit market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

Hot Bending Type

Tempered Type

Segmentation by Environmental Properties:

Lead Containing

Lead Free

Segmentation by Functional Parts:

Windshield

Side and Rear Windows

Sunroof

Segmentation by Application:

OEM

Aftermarket

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.

Fenzi Group

Vibrantz Technologies

Dip-Tech

Johnson Matthey

Sun Chemical

Torrecid

Akcoat

Pemco Italy

Ferro

Sokan New Materials Group

Kunshan Belleview Application Materials

OCTOPUS

Xiamen Hansenda

Jiangsu Baifu

Chenguang New Materials

### Key Questions Addressed in this Report

What is the 10-year outlook for the global Automotive Black Ceramic Frit market?

What factors are driving Automotive Black Ceramic Frit market growth, globally and by region?

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

How do Automotive Black Ceramic Frit market opportunities vary by end market size?

How does Automotive Black Ceramic Frit break out by Type, by Application?

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