

Automotive Ceramics Market: Global Industry Trends, Share, Size, Growth, Opportunity and Forecast 2023-2028

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Abstracts

The global automotive ceramics market size reached US\$ 2.5 Billion in 2022. Looking forward, IMARC Group expects the market to reach US\$ 3.5 Billion by 2028, exhibiting a growth rate (CAGR) of 5.5% during 2023-2028.

Automotive ceramics refer to hard materials used to produce various automotive components, including valve systems, superchargers, knock sensors, actuators, oxygen, fluid level and fuel level sensors. They are primarily manufactured using titanate, alumina, and zirconia oxide that provides an extra layer of protection to the vehicle, repels mud and dirt, and protects against ultraviolet (UV) rays, scratches, and chemical contaminants. As compared to traditional materials, automotive ceramic products are durable, cost-effective, lightweight, and safe and exhibit corrosion resistance and excellent wear properties. As a result, automotive ceramics are widely used in spark plug insulators, catalysts and catalyst support for emission control devices in passenger cars and commercial vehicles.

Automotive Ceramics Market Trends:

Significant growth in the automotive industry across the globe represents one of the key factors creating a positive outlook for the market. Ceramics are widely used in manufacturing various components, such as high-pressure pumps, glow plugs, sealing and insulation rings, valves, and other automotive parts. In line with this, the increasing demand for electric vehicles (EVs) that consist of electronic ceramic components and sensors for smart traffic management and run systems is favoring the market growth. Apart from this, various product innovations, such as the introduction of high-tech glass ceramics that exhibit high technical strength, insulation properties and are virtually impervious to electricity and heat, are providing an impetus to the market growth.

Additionally, the increasing demand for lightweight components as it aids in improving performance, cost-effectiveness and fuel efficiency is positively impacting the market growth. Other factors, including extensive research and development (R&D) activities, the rising demand for fuel-efficient vehicles and the implementation of various government initiatives for emission control and reducing greenhouse gasses, are anticipated to drive the market toward growth.

Key Market Segmentation:

IMARC Group provides an analysis of the key trends in each sub-segment of the global automotive ceramics market report, along with forecasts at the global, regional and country level from 2023-2028. Our report has categorized the market based on component, material and application.

Breakup by Component:

- Automotive Engine Parts
- Automotive Exhaust Systems
- Automotive Electronics
- Others

Breakup by Material:

- Alumina Oxide
- Titanate Oxide
- Zirconia Oxide
- Others

Breakup by Application:

- Passenger Vehicle
- Commercial Vehicle

Breakup by Region:

- North America
 - United States
 - Canada
- Asia-Pacific
- China

Japan
India
South Korea
Australia
Indonesia
Others
Europe
Germany
France
United Kingdom
Italy
Spain
Russia
Others
Latin America
Brazil
Mexico
Others
Middle East and Africa

Competitive Landscape:

The competitive landscape of the industry has also been examined along with the profiles of the key players being Almatris GmbH, CeramTec GmbH, Compagnie de Saint-Gobain S.A., CoorsTek Inc., Corning Incorporated, Elan Technology, Ividen Co. Ltd., International Syalons (Newcastle) Limited, Kyocera Corporation, Morgan Advanced Materials, NGK Spark Plug Co. Ltd. and Noritake Co. Limited.

Key Questions Answered in This Report

1. What was the size of the global automotive ceramics market in 2022?
2. What is the expected growth rate of the global automotive ceramics market during 2023-2028?
3. What are the key factors driving the global automotive ceramics market?
4. What has been the impact of COVID-19 on the global automotive ceramics market?
5. What is the breakup of the global automotive ceramics market based on the component?
6. What is the breakup of the global automotive ceramics market based on the material?
7. What is the breakup of the global automotive ceramics market based on application?
8. What are the key regions in the global automotive ceramics market?

9. Who are the key players/companies in the global automotive ceramics market?

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