

Automotive Ceramics Market Size, Share & Trends Analysis Report By Application (Passenger, Commercial Vehicles), By Material (Alumina, Zirconia), By Region (North America, APAC), And Segment Forecasts, 2020 - 2027

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Abstracts

Automotive Ceramics Market Growth & Trends

The global automotive ceramics market size is expected to reach USD 2.9 billion by 2027 registering a CAGR of 5.6%, according to a new report by Grand View Research, Inc. Stringent regulations for environmental protection are likely to remain a key growth driving factor for the market.

Governments of various countries are ensuring stringent emission standards to curb air pollution. Automakers around the world are under pressure to reduce the weight of the manufactured vehicles to improve fuel efficiency. This is likely to boost the demand for lightweight materials, such as aluminum, ceramics, and plastics.

Indian government recently announced BS VI emission standards, which are in line with European standards. These emission standards are effective from April 1, 2020. This is likely to attract investments in R&D and demand for lightweight materials over the coming years. As per these norms, petrol-based vehicles are projected to observe a 25% reduction in their NOx.

Growing requirements for safety and quality of materials used in auto manufacturing is another factor projected to assist in the demand for automotive ceramics products. In order to improve the performance of vehicles, companies are focusing on the development of more efficient engines. Advanced ceramics have the potential to

replace some small metal parts to reduce the overall weight of the vehicle. It provides advantages, such as high strength, low density, and coefficient of friction and high wear resistance.

Increasing demand for vehicles in Europe and North America is projected to assist in the growth of the market over the coming years. Germany owing to its close association with luxurious brands, such as BMW, Mercedes, and Audi, is likely to have medium to high growth prospects over the long term.

However, recent outbreak of COVID-19 in the first quarter of 2020 has affected the product demand as governments of various countries have started lockdown for all the non-essential businesses across the world. As per the European Automobile Manufacturers Association, the outbreak of COVID-19 has resulted in nearly 14.6 million vehicles in production loss.

Automotive Ceramics Market Report Highlights

Alumina was the largest material segment and accounted for a market share of 40.3% in 2019. Chemical and heat resistance of alumina drive its demand in applications, such as engines and fuel injectors

Passenger vehicles segment is projected to grow at the fastest CAGR of 5.8% from 2020 to 2027 due to increasing sales of SUV vehicles

Asia Pacific is likely to witness the fastest growth over the coming years. Large-scale production of automotive and growing population along with availability of low-cost labor and raw materials are the key growth drivers

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