

Global Automotive Smart Materials Market 2024 by Manufacturers, Regions, Type and Application, Forecast to 2030

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Abstracts

According to our (Global Info Research) latest study, the global Automotive Smart Materials market size was valued at USD 2245.1 million in 2023 and is forecast to a readjusted size of USD 2920.3 million by 2030 with a CAGR of 3.8% during review period.

Smart materials, called also intelligent or responsive materials, are designed materials that have one or more properties that can be significantly changed in a controlled fashion by external stimuli, such as stress, temperature, moisture, pH, electric or magnetic fields, light, or chemical compounds. Smart materials are the basis of many applications, including sensors and actuators, or artificial muscles, particularly as electroactive polymers (EAPs).

Terms used to describe smart materials include shape memory material (SMM) and shape memory technology (SMT).

Automotive is a key driver of this industry. According to data from the World Automobile Organization (OICA), global automobile production and sales in 2017 reached their peak in the past 10 years, at 97.3 million and 95.89 million respectively. In 2018, the global economic expansion ended, and the global auto market declined as a whole. In 2022, there will wear units 81.6 million vehicles in the world. At present, more than 90% of the world's automobiles are concentrated in the three continents of Asia, Europe and North America, of which Asia automobile production accounts for 56% of the world, Europe accounts for 20%, and North America accounts for 16%. The world major automobile producing countries include China, the United States, Japan, South Korea, Germany, India, Mexico, and other countries; among them, China is the largest

automobile producing country in the world, accounting for about 32%. Japan is the world's largest car exporter, exporting more than 3.5 million vehicles in 2022.

The Global Info Research report includes an overview of the development of the Automotive Smart Materials industry chain, the market status of Commercial Vehicle (Interior Automotive Smart Materials, External Automotive Smart Materials), Private Vehicle (Interior Automotive Smart Materials, External Automotive Smart Materials), and key enterprises in developed and developing market, and analysed the cutting-edge technology, patent, hot applications and market trends of Automotive Smart Materials.

Regionally, the report analyzes the Automotive Smart Materials markets in key regions. North America and Europe are experiencing steady growth, driven by government initiatives and increasing consumer awareness. Asia-Pacific, particularly China, leads the global Automotive Smart Materials market, with robust domestic demand, supportive policies, and a strong manufacturing base.

Key Features:

The report presents comprehensive understanding of the Automotive Smart Materials market. It provides a holistic view of the industry, as well as detailed insights into individual components and stakeholders. The report analysis market dynamics, trends, challenges, and opportunities within the Automotive Smart Materials industry.

The report involves analyzing the market at a macro level:

Market Sizing and Segmentation: Report collect data on the overall market size, including the sales quantity (MT), revenue generated, and market share of different by Type (e.g., Interior Automotive Smart Materials, External Automotive Smart Materials).

Industry Analysis: Report analyse the broader industry trends, such as government policies and regulations, technological advancements, consumer preferences, and market dynamics. This analysis helps in understanding the key drivers and challenges influencing the Automotive Smart Materials market.

Regional Analysis: The report involves examining the Automotive Smart Materials market at a regional or national level. Report analyses regional factors such as government incentives, infrastructure development, economic conditions, and consumer behaviour to identify variations and opportunities within different markets.

Market Projections: Report covers the gathered data and analysis to make future projections and forecasts for the Automotive Smart Materials market. This may include estimating market growth rates, predicting market demand, and identifying emerging trends.

The report also involves a more granular approach to Automotive Smart Materials:

Company Analysis: Report covers individual Automotive Smart Materials manufacturers, suppliers, and other relevant industry players. This analysis includes studying their financial performance, market positioning, product portfolios, partnerships, and strategies.

Consumer Analysis: Report covers data on consumer behaviour, preferences, and attitudes towards Automotive Smart Materials. This may involve surveys, interviews, and analysis of consumer reviews and feedback from different by Application (Commercial Vehicle, Private Vehicle).

Technology Analysis: Report covers specific technologies relevant to Automotive Smart Materials. It assesses the current state, advancements, and potential future developments in Automotive Smart Materials areas.

Competitive Landscape: By analyzing individual companies, suppliers, and consumers, the report presents insights into the competitive landscape of the Automotive Smart Materials market. This analysis helps understand market share, competitive advantages, and potential areas for differentiation among industry players.

Market Validation: The report involves validating findings and projections through primary research, such as surveys, interviews, and focus groups.

Market Segmentation

Automotive Smart Materials market is split by Type and by Application. For the period 2019-2030, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value.

Market segment by Type

Interior Automotive Smart Materials

External Automotive Smart Materials

Market segment by Application

Commercial Vehicle

Private Vehicle

Major players covered

3M

Panasonic

Siemens

Saint-Gobain

Asahi Glass

Eastman Chemicals

View

Scienstry

Gentex

ChormoGenics

SWITCH Materials Inc

Econtrol-Glas

US e-Chromic Technologies

GE

Samsung

LG

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)

The content of the study subjects, includes a total of 15 chapters:

Chapter 1, to describe Automotive Smart Materials product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Automotive Smart Materials, with price, sales, revenue and global market share of Automotive Smart Materials from 2019 to 2024.

Chapter 3, the Automotive Smart Materials competitive situation, sales quantity, revenue and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Automotive Smart Materials breakdown data are shown at the regional level, to show the sales quantity, consumption value and growth by regions, from 2019 to 2030.

Chapter 5 and 6, to segment the sales by Type and application, with sales market share and growth rate by type, application, from 2019 to 2030.

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 2017 to 2023. and Automotive Smart Materials market forecast, by regions, type and application, with sales and revenue, from 2025 to 2030.

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 Automotive Smart Materials.

Chapter 14 and 15, to describe Automotive Smart Materials sales channel, distributors, customers, research findings and conclusion.

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