

Fumed Silica Market Report by Type (Hydrophilic Fumed Silica, Hydrophobic Fumed Silica), Application (Silicone Elastomers, Paints, Coatings and Inks, Adhesives and Sealants, UPR and Composites, and Others), End Use Industry (Building and Construction, Electrical and Electronics, Automotive and Transportation, Personal Care and Beauty, Food and Beverages, Pharmaceuticals, and Others), and Region 2025-2033

<https://marketpublishers.com/r/FE75FAC93755EN.html>

Date: May 2025

Pages: 147

Price: US\$ 2,999.00 (Single User License)

ID: FE75FAC93755EN

Abstracts

The global fumed silica market size reached USD 1.4 Billion in 2024. Looking forward, IMARC Group expects the market to reach USD 2.1 Billion by 2033, exhibiting a growth rate (CAGR) of 4.36% during 2025-2033. The rising demand for fumed silica in the automotive, construction, and electronics industries, the increasing use of fumed silica in personal care products and pharmaceuticals, and advancements in manufacturing technologies are some of the major factors propelling the market growth.

Fumed silica (SiO_2) is a white powder chemically synthesized by the pyrolysis method wherein silicon tetrachloride (SiCl_4) reacts with oxygen (O_2) in a flame. It helps enhance the thermal, rheological, and mechanical properties of adhesives, such as thermoplastic polyurethane (TPU). Consequently, it is employed in the food and beverage (F&B), personal care, construction, and chemical industries across the globe.

Fumed Silica Market Trends:

The thriving automotive sector represents one of the key factors bolstering the growth of

the market. Besides this, there is an increase in the use of SiO₂ as a flow additive for powder coatings worldwide. In addition, it is utilized as a desiccant, stabilizer, and thickening and anti-caking agent in pharmaceutical products, cosmetics, paints, and sealants. Apart from this, SiO₂ is employed as a reinforcing agent in the manufacturing of silicone elastomers to increase toughness, hardness, tensile strength, and resistance against tear and abrasion. These elastomers are used in electrical insulation as sheets, tapes, wires and cable coverings, and extruded sleeving and moldings. Furthermore, the gelling process in conventional gel electrolytes, such as non-thixotropic gels, is permanent and non-reversible, which does not allow gels to adapt to changes in batteries. However, the gelling process of SiO₂ is reversible on account of its thixotropic properties. As a result, it finds extensive applications in commercial lead-acid batteries to form a gel. Moreover, as it is more cost-effective than its substitutes, the demand for SiO₂ is rising around the world. Some of the other factors, including rapid industrialization and the increasing focus of leading players on research and development (R&D) activities, are anticipated to fuel the growth of the market in the upcoming years.

Key Market Segmentation:

IMARC Group provides an analysis of the key trends in each segment of the market, along with forecasts at the global, regional, and country levels for 2025-2033. Our report has categorized the market based on type, application, and end use industry.

Breakup by Type:

Hydrophilic Fumed Silica

Hydrophobic Fumed Silica

Breakup by Application:

Silicone Elastomers

Paints, Coatings and Inks

Adhesives and Sealants

UPR and Composites

Others

Breakup by End Use Industry:

Building and Construction

Electrical and Electronics

Automotive and Transportation

Personal Care and Beauty

Food and Beverages

Pharmaceuticals

Others

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 AGSCO Corp., AMS Applied Material Solutions, Cabot Corporation, Chifeng Shengsen Silicon Technology Development Co. Ltd., China National Bluestar (Group) Co. Ltd. (China National Chemical Corporation), Evonik

Industries AG, Gelest Inc. (Mitsubishi Chemical Corporation), Heraeus Holding, Kemitura A/S, OCI Company Ltd., Tokuyama Corporation and Wacker Chemie AG.

Key Questions Answered in This Report

- 1.What was the size of the global fumed silica market in 2024?
- 2.What is the expected growth rate of the global fumed silica market during 2025-2033?
- 3.What are the key factors driving the global fumed silica market?
- 4.What has been the impact of COVID-19 on the global fumed silica market?
- 5.What is the breakup of the global fumed silica market based on the type?
- 6.What is the breakup of the global fumed silica market based on the application?
- 7.What is the breakup of the global fumed silica market based on the end use industry?
- 8.What are the key regions in the global fumed silica market?
- 9.Who are the key players/companies in the global fumed silica market?

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