

Fumed Silica Market: Global Industry Trends, Share, Size, Growth, Opportunity and Forecast 2023-2028

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Abstracts

Market Overview:

The global fumed silica market size reached US\$ 1.3 Billion in 2022. Looking forward, IMARC Group expects the market to reach US\$ 1.7 Billion by 2028, exhibiting a growth rate (CAGR) of 5.2% during 2023-2028.

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 SiO_2 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, SiO_2 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 SiO_2 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 sub-segment of the global fumed silica market report, along with forecasts at the global, regional and country level from 2023-2028. 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 2022?
2. What is the expected growth rate of the global fumed silica market during 2023-2028?
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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