

# **Fumed Silica Market- Global Industry Size, Share, Trends, Opportunity, and Forecast, 2018-2028 Segmented By Type (Hydrophilic and Hydrophobic), By Application (Coatings, Adhesives & Sealants, Pharmaceuticals, Others), By Region and Competition**

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## **Abstracts**

Fumed Silica market is anticipated to grow significantly through 2028 due to its increased demand across the building and construction, automotive, electronics industries. Revenue in the Consumer Electronics market amounts to USD 70.72 Billion in 2022.

Substances that absorb another material are called fumed silica. Through the adhesion process, fumed silica builds layers on the surface. They induce solids, liquids, and gases to lose some of their characteristics while keeping their chemical and physical characteristics, causing them to stick to their surfaces. Furthermore, the pharmaceutical industry's growing need for polymeric fumed silica to remove antibiotics, peptides, proteins, and other chemicals is another factor anticipated to drive the expansion of the worldwide fumed silica market.

In addition, silicone elastomers a fumed silica product is expected to pace up with its wide application in variety of products such as sportswear, footwear, electronics, voltage line insulators, medical devices, and implants. Therefore, the fumed silica market is expected to grow throughout the forecast period.

### **Increasing Demand from The Adhesives and Sealants Sector**

To raise the component's viscosity, improve anti-settling capabilities during storage, manage extrusion properties during the application, and impart anti-sag properties

during cure, fumed silica is utilized in the adhesive and sealant business. Compared to coated precipitated calcium carbonates (PCC), which are often used to regulate the rheology of Sewage Treatment Plants (STP) and polyurethane adhesives and sealants, treated fumed silica offers noticeably greater adhesive strength. Fumed silica has a lower specific gravity than calcium carbonate and contributes much less to adhesive weight, which might be advantageous in applications where adhesive weight is a problem, such as an automobile light-weighting. Therefore, the said factors are expected to impact the market in the forecast period significantly.

### Increasing Demand in the Pharmaceutical Industry

In the pharmaceutical industry, manufacturing tablets and capsules is a significant challenge, but fumed silica helps to enhance features, making the procedure noticeably simpler. Fumed silica is employed in the production of tablets as anticaking agents, adsorbents, disintegrants, and glidants to facilitate powder flow during tablet processing. These substances seem safe to biological organisms. It is regarded as generally safe by the FDA. Therefore, a key development in the market for fumed silica is R&D in advanced equipment.

### Hydrophilic Will Continue to Be a Key Type

The market for fumed silica is anticipated to be dominated by the hydrophilic segment. Hydrophilic fumed silica is produced by hydrolyzing volatile chlorosilanes in an oxyhydrogen flame. In water, it may be completely absorbed and disseminated. This silica has exceptional insulating properties at high temperatures. Hydrophilic fumed silica might be advantageous for non-polar resin systems. It is used to thicken non-polar solvents like xylene, mineral spirits, and styrene and to reinforce silicone. It works well for compositions where shelf stability isn't a major issue. Hydrophilic fumed silica is quickly being employed in various applications due to its low cost. It has great insulating qualities and exceptional chemical purity, even at high temperatures.

### Recent Developments

In October 2021, Evonik recognized its new fumed silica plant in China in a joint venture with Wynca. The manufactured fumed silica is operated under the brand name AEROSIL.

Wacker Chemie AG extended its fumed silica production facility with the opening of a new facility in Charleston in October 2019. For its HDK brand, the factory

has a capacity of 13,000 metric tons per year.

In September 2019, Cabot Corporation revealed the official beginning of its latest fumed silica manufacturing facility in Wuhai, Inner Mongolia, China

In August 2019, Evonik Industries AG announced the expansion of fumed silica capacities in its plant at Antwerp of Belgium for applications including coatings and paints, modern adhesive systems, transparent silicones, and non-flammable insulation material.

## Market Segmentation

Global Fumed Silica Market is segmented based on type, application, and region. Based on the type, the market is categorized into hydrophilic and hydrophobic. Based on application, the market is segmented into Coatings, Adhesives & Sealants, Pharmaceuticals, and others. Based on region, the market is divided into North America, Europe, Asia Pacific, South America, Middle East & Africa, By Company.

## Market Players

Evonik Corp, Wacker Chemie AG, Dongyue Group Ltd, OCI Company Ltd., Henan Xunyu Chemical Co., Ltd., Kemitura A/S, Cabot Sanmar Limited, Hubei Xingfa Chemicals Group Co., Ltd, Tokuyama Corporation, China-Henan Huamei Chemical Co. Ltd. are some of the key players of the Global Fumed Silica Market.

## Report Scope:

In this report, the global fumed silica market has been segmented into the following categories, in addition to the industry trends, which have also been detailed below:

### Fumed Silica Market, By Type:

Hydrophilic

Hydrophobic

### Fumed Silica Market, By Application:

Coatings

Adhesives & Sealants

Pharmaceuticals

Others

### Fumed Silica Market, By Region:

North America

United States

Mexico

Canada

Europe

France

Germany

United Kingdom

Italy

Spain

Asia-Pacific

China

India

South Korea

Japan

Australia

South America

Brazil

Argentina

Colombia

Middle East & Africa

South Africa

Saudi Arabia

UAE

Iraq

Competitive landscape

Company Profiles: Detailed analysis of the major companies in the global fumed silica market.

Available Customizations:

With the given market data, TechSci Research offers customizations according to a company's specific needs. The following customization options are available for the report:

Company Information

Detailed analysis and profiling of additional market players (up to five).

## Contents

### **1. PRODUCT OVERVIEW**

- 1.1. Market Definition
- 1.2. Scope of the Market
  - 1.2.1. Markets Covered
  - 1.2.2. Years Considered for Study
  - 1.2.3. Key Market Segmentations

### **2. RESEARCH METHODOLOGY**

- 2.1. Objective of the Study
- 2.2. Baseline Methodology
- 2.3. Key Industry Partners
- 2.4. Major Association and Secondary Sources
- 2.5. Forecasting Methodology
- 2.6. Data Triangulation & Validation
- 2.7. Assumptions and Limitations

### **3. EXECUTIVE SUMMARY**

- 3.1. Overview of the Market
- 3.2. Overview of Key Market Segmentations
- 3.3. Overview of Key Market Players
- 3.4. Overview of Key Regions/Countries
- 3.5. Overview of Market Drivers, Challenges, Trends

### **4. VOICE OF CUSTOMER**

### **5. GLOBAL FUMED SILICA MARKET OUTLOOK**

- 5.1. Market Size & Forecast
  - 5.1.1. By Value & Volume
- 5.2. Market Share & Forecast
  - 5.2.1. By Type (Hydrophilic and Hydrophobic)
  - 5.2.2. By Application (Coatings, Adhesives & Sealants, Pharmaceuticals, Others)
  - 5.2.3. By Region (North America, Europe, Asia Pacific, South America, Middle East & Africa)

- 5.2.4. By Company (2022)
- 5.3. Market Map
  - 5.3.1. By Type
  - 5.3.2. By Application
  - 5.3.3. By Region

## **6. NORTH AMERICA FUMED SILICA MARKET OUTLOOK**

- 6.1. Market Size & Forecast
  - 6.1.1. By Value & Volume
- 6.2. Market Share & Forecast
  - 6.2.1. By Type
  - 6.2.2. By Application
  - 6.2.3. By Country
- 6.3. Pricing Analysis
- 6.4. North America: Country Analysis
  - 6.4.1. United States Fumed Silica Market Outlook
    - 6.4.1.1. Market Size & Forecast
      - 6.4.1.1.1. By Value & Volume
    - 6.4.1.2. Market Share & Forecast
      - 6.4.1.2.1. By Type
      - 6.4.1.2.2. By Application
  - 6.4.2. Mexico Fumed Silica Market Outlook
    - 6.4.2.1. Market Size & Forecast
      - 6.4.2.1.1. By Value & Volume
    - 6.4.2.2. Market Share & Forecast
      - 6.4.2.2.1. By Type
      - 6.4.2.2.2. By Application
  - 6.4.3. Canada Fumed Silica Market Outlook
    - 6.4.3.1. Market Size & Forecast
      - 6.4.3.1.1. By Value & Volume
    - 6.4.3.2. Market Share & Forecast
      - 6.4.3.2.1. By Type
      - 6.4.3.2.2. By Application

## **7. EUROPE FUMED SILICA MARKET OUTLOOK**

- 7.1. Market Size & Forecast
  - 7.1.1. By Value & Volume

## 7.2. Market Share & Forecast

### 7.2.1. By Type

### 7.2.2. By Application

### 7.2.3. By Country

## 7.3. Pricing Analysis

## 7.4. Europe: Country Analysis

### 7.4.1. France Fumed Silica Market Outlook

#### 7.4.1.1. Market Size & Forecast

##### 7.4.1.1.1. By Value & Volume

#### 7.4.1.2. Market Share & Forecast

##### 7.4.1.2.1. By Type

##### 7.4.1.2.2. By Application

### 7.4.2. Germany Fumed Silica Market Outlook

#### 7.4.2.1. Market Size & Forecast

##### 7.4.2.1.1. By Value & Volume

#### 7.4.2.2. Market Share & Forecast

##### 7.4.2.2.1. By Type

##### 7.4.2.2.2. By Application

### 7.4.3. United Kingdom Fumed Silica Market Outlook

#### 7.4.3.1. Market Size & Forecast

##### 7.4.3.1.1. By Value & Volume

#### 7.4.3.2. Market Share & Forecast

##### 7.4.3.2.1. By Type

##### 7.4.3.2.2. By Application

### 7.4.4. Italy Fumed Silica Market Outlook

#### 7.4.4.1. Market Size & Forecast

##### 7.4.4.1.1. By Value & Volume

#### 7.4.4.2. Market Share & Forecast

##### 7.4.4.2.1. By Type

##### 7.4.4.2.2. By Application

### 7.4.5. Spain Fumed Silica Market Outlook

#### 7.4.5.1. Market Size & Forecast

##### 7.4.5.1.1. By Value & Volume

#### 7.4.5.2. Market Share & Forecast

##### 7.4.5.2.1. By Type

##### 7.4.5.2.2. By Application

## 8. ASIA-PACIFIC FUMED SILICA MARKET OUTLOOK



- 8.1. Market Size & Forecast
  - 8.1.1. By Value & Volume
- 8.2. Market Share & Forecast
  - 8.2.1. By Type
  - 8.2.2. By Application
  - 8.2.3. By Country
- 8.3. Pricing Analysis
- 8.4. Asia-Pacific: Country Analysis
  - 8.4.1. China Fumed Silica Market Outlook
    - 8.4.1.1. Market Size & Forecast
      - 8.4.1.1.1. By Value & Volume
    - 8.4.1.2. Market Share & Forecast
      - 8.4.1.2.1. By Type
      - 8.4.1.2.2. By Application
  - 8.4.2. India Fumed Silica Market Outlook
    - 8.4.2.1. Market Size & Forecast
      - 8.4.2.1.1. By Value & Volume
    - 8.4.2.2. Market Share & Forecast
      - 8.4.2.2.1. By Type
      - 8.4.2.2.2. By Application
  - 8.4.3. South Korea Fumed Silica Market Outlook
    - 8.4.3.1. Market Size & Forecast
      - 8.4.3.1.1. By Value & Volume
    - 8.4.3.2. Market Share & Forecast
      - 8.4.3.2.1. By Type
      - 8.4.3.2.2. By Application
  - 8.4.4. Japan Fumed Silica Market Outlook
    - 8.4.4.1. Market Size & Forecast
      - 8.4.4.1.1. By Value & Volume
    - 8.4.4.2. Market Share & Forecast
      - 8.4.4.2.1. By Type
      - 8.4.4.2.2. By Application
  - 8.4.5. Australia Fumed Silica Market Outlook
    - 8.4.5.1. Market Size & Forecast
      - 8.4.5.1.1. By Value & Volume
    - 8.4.5.2. Market Share & Forecast
      - 8.4.5.2.1. By Type
      - 8.4.5.2.2. By Application

## **9. SOUTH AMERICA FUMED SILICA MARKET OUTLOOK**

### 9.1. Market Size & Forecast

#### 9.1.1. By Value & Volume

### 9.2. Market Share & Forecast

#### 9.2.1. By Type

#### 9.2.2. By Application

#### 9.2.3. By Country

### 9.3. Pricing Analysis

### 9.4. South America: Country Analysis

#### 9.4.1. Brazil Fumed Silica Market Outlook

##### 9.4.1.1. Market Size & Forecast

###### 9.4.1.1.1. By Value & Volume

##### 9.4.1.2. Market Share & Forecast

###### 9.4.1.2.1. By Type

###### 9.4.1.2.2. By Application

#### 9.4.2. Argentina Fumed Silica Market Outlook

##### 9.4.2.1. Market Size & Forecast

###### 9.4.2.1.1. By Value & Volume

##### 9.4.2.2. Market Share & Forecast

###### 9.4.2.2.1. By Type

###### 9.4.2.2.2. By Application

#### 9.4.3. Colombia Fumed Silica Market Outlook

##### 9.4.3.1. Market Size & Forecast

###### 9.4.3.1.1. By Value & Volume

##### 9.4.3.2. Market Share & Forecast

###### 9.4.3.2.1. By Type

###### 9.4.3.2.2. By Application

## **10. MIDDLE EAST AND AFRICA FUMED SILICA MARKET OUTLOOK**

### 10.1. Market Size & Forecast

#### 10.1.1. By Value & Volume

### 10.2. Market Share & Forecast

#### 10.2.1. By Type

#### 10.2.2. By Application

#### 10.2.3. By Country

### 10.3. Pricing Analysis

### 10.4. MEA: Country Analysis

#### 10.4.1. South Africa Fumed Silica Market Outlook

##### 10.4.1.1. Market Size & Forecast

###### 10.4.1.1.1. By Value & Volume

##### 10.4.1.2. Market Share & Forecast

###### 10.4.1.2.1. By Type

###### 10.4.1.2.2. By Application

#### 10.4.2. Saudi Arabia Fumed Silica Market Outlook

##### 10.4.2.1. Market Size & Forecast

###### 10.4.2.1.1. By Value & Volume

##### 10.4.2.2. Market Share & Forecast

###### 10.4.2.2.1. By Type

###### 10.4.2.2.2. By Application

#### 10.4.3. UAE Fumed Silica Market Outlook

##### 10.4.3.1. Market Size & Forecast

###### 10.4.3.1.1. By Value & Volume

##### 10.4.3.2. Market Share & Forecast

###### 10.4.3.2.1. By Type

###### 10.4.3.2.2. By Application

#### 10.4.4. Iraq Fumed Silica Market Outlook

##### 10.4.4.1. Market Size & Forecast

###### 10.4.4.1.1. By Value & Volume

##### 10.4.4.2. Market Share & Forecast

###### 10.4.4.2.1. By Type

###### 10.4.4.2.2. By Application

## 11. MARKET DYNAMICS

### 11.1. Drivers

### 11.2. Challenges

## 12. MARKET TRENDS & DEVELOPMENTS

### 12.1. Recent Developments

### 12.2. Product Launches

### 12.3. Mergers & Acquisitions

## 13. GLOBAL FUMED SILICA MARKET: SWOT ANALYSIS

## 14. PORTER'S FIVE FORCES ANALYSIS

- 14.1. Competition in the Industry
- 14.2. Potential of New Entrants
- 14.3. Power of Suppliers
- 14.4. Power of Customers
- 14.5. Threat of Substitute Types

## **15. COMPETITIVE LANDSCAPE**

- 15.1. Business Overview
- 15.2. Type Offerings
- 15.3. Recent Developments
- 15.4. Financials (In Case of Listed Companies)
- 15.5. Key Personnel
- 15.6. SWOT Analysis
  - 15.6.1. Evonik Corp
  - 15.6.2. Wacker Chemie AG
  - 15.6.3. Dongyue Group Ltd
  - 15.6.4. OCI Compnay Ltd.
  - 15.6.5. Henan Xunyu Chemical Co., Ltd.
  - 15.6.6. Kemitura A/S
  - 15.6.7. Cabot Sanmar Limited
  - 15.6.8. Hubei Xingfa Chemicals Group Co., Ltd
  - 15.6.9. Tokuyama Corporation
  - 15.6.10. China-Henan Huamei Chemical Co.Ltd.

## **16. STRATEGIC RECOMMENDATIONS**

## I would like to order

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