

Fumed Silica Powder Industry Research Report 2024

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Abstracts

Summary

The fumed silica powder industry faced a challenging year in 2023, with both global sales and revenue showing a decline. This downturn highlights the broader market dynamics, including economic slowdowns and disruptions in key industries. Despite this, the long-term outlook remains optimistic, with growth expected to resume from 2024 onward across several regions and applications.

Fumed silica, also known as pyrogenic silica, is an amorphous, synthetic silica produced by vapor phase hydrolysis of chlorosilanes in a hydrogen oxygen flame. In the flame process, primary particles are fused into branched, three-dimensional secondary particles or aggregates. In the collection system, aggregates are mechanically entangled to form agglomerates (Figure 1.). The surface of untreated fumed silica has hydroxyl groups which makes the surface hydrophilic. Fumed silica can be made hydrophobic by chemically modifying the surface with hydroxyl groups. The degree of hydrophobicity is a function of the chemistry of the treating agent (Figure 2.). The appearance of fumed silica is a white, low bulk density powder. The primary particle size is between 7-40nm, the aggregate particle size is about 200-500nm, the specific surface area is 100-400 m²/g, the purity is high, the SiO₂ content is not less than 99.8% (Figure 3.).

The fumed silica powder has strong stability, dispersion, reinforcing, thickening and thixotropy, and is suitable for specific applications, such as ultra-fine inorganic new materials, composite materials, antibacterial materials and so on. It is used as a reinforcing, thickening, abrasive, thixotropic, suspending or anticaking agent in a wide variety of products for the automotive, construction, microelectronics, batteries and consumer products industries. These products include adhesives, sealants, cosmetics, batteries, inks, toners, silicone elastomers, coatings, polishing slurries and

pharmaceuticals.

Regional Market Leadership and Growth

Asia Pacific Leading the Market

Asia Pacific stands as the largest and fastest-growing region, with revenues increasing from \$472.76 million in 2019 to a projected \$898.45 million by 2030. The region's strong industrial base, particularly in the automotive, electronics, and construction sectors, continues to drive the consumption of fumed silica. The market in Asia Pacific is expected to grow at a robust CAGR of 6.21% from 2024 to 2030, reflecting increasing demand from industries reliant on high-performance materials like fumed silica.

Steady Growth in North America and Europe

North America, while not the largest market, shows stable growth with a CAGR of 5.76% (2024-2030), driven by advancements in technologies related to paints, coatings, and high-end silicone rubber. Europe's market, recovering from a slight dip, is expected to grow at a CAGR of 5.36%, reaching \$589.90 million by 2030. Both regions benefit from well-established industries, but slower growth in manufacturing compared to Asia Pacific contributes to more moderate expansion rates.

Latin America and the Middle East & Africa

Though smaller in scale, both Latin America and the Middle East & Africa (MEA) show promising growth. Latin America is projected to grow at a CAGR of 5.12%, with key demand drivers being the adhesives, coatings, and industrial manufacturing sectors. MEA, although representing the smallest market, has notable growth potential with a CAGR of 4.79%, as industrialization and infrastructure projects increase the demand for high-performance materials like fumed silica.

Industry Revenue and Volume Dynamics

The market for fumed silica is expected to see an overall increase in sales volume from 282,585 tons in 2023 to 409,759 tons by 2030, translating into significant revenue growth from USD 1.85 billion to USD 2.37 billion over the same period.

Revenue growth outpaces volume growth, indicating increasing product value, driven by higher demand for specialized applications such as advanced coatings, high-

performance silicone rubbers, and composite materials. This trend reflects the premium pricing for high-grade fumed silica with specific properties like higher BET surface areas (210-300 m²/g).

Report Scope

This report aims to provide a comprehensive presentation of the global market for Fumed Silica Powder, with both quantitative and qualitative analysis, to help readers develop business/growth strategies, assess the market competitive situation, analyze their position in the current marketplace, and make informed business decisions regarding Fumed Silica Powder.

The report will help the Fumed Silica Powder manufacturers, new entrants, and industry chain related companies in this market with information on the revenues, sales volume, and average price for the overall market and the sub-segments across the different segments, by company, by Type, by Application, and by regions.

The Fumed Silica Powder market size, estimations, and forecasts are provided in terms of sales volume (Tons) and revenue (\$ millions), considering 2023 as the base year, with history and forecast data for the period from 2019 to 2030. This report segments the global Fumed Silica Powder market comprehensively. Regional market sizes, concerning products by Type, by Application, and by players, are also provided. For a more in-depth understanding of the market, the report provides profiles of the competitive landscape, key competitors, and their respective market ranks. The report also discusses technological trends and new product developments.

Key Companies & Market Share Insights

In this section, the readers will gain an understanding of the key players competing. This report has studied the key growth strategies, such as innovative trends and developments, intensification of product portfolio, mergers and acquisitions, collaborations, new product innovation, and geographical expansion, undertaken by these participants to maintain their presence. Apart from business strategies, the study includes current developments and key financials. The readers will also get access to the data related to global revenue, price, and sales by manufacturers for the period 2019-2024. This all-inclusive report will certainly serve the clients to stay updated and make effective decisions in their businesses. Some of the prominent players reviewed in the research report include:

Evonik Industries

Cabot

Wacker

Tokuyama

Cabot Bluestar Chemical (Jiangxi)

Hoshine Silicon Industry

Hubei Huifu Nanomaterial

OCI Corporation

Xinjiang Jingshuo New Materials (Xinte Energy)

Shandong Dongyue Organosilicon Materials

Evonik Wynca (Zhenjiang)

Orisil

Fushite

Jiangxi Black Cat Carbon

Fumed Silica Powder segment by Type

BET 80-130 m²/g

BET 130-200 m²/g

BET 200-300 m²/g

BET >300 m²/g

Fumed Silica Powder segment by Application

Silicone Rubber

Adhesives and Sealants

Polyester Resins

Paints and Inks

Others (Cosmetics, Pharma, Battery materials)

Fumed Silica Powder Segment by Region

North America

United States

Canada

Europe

Germany

France

U.K.

Italy

Netherlands

Nordic Countries

Asia-Pacific

China

Japan

South Korea

India

Australia

China Taiwan

Southeast Asia

Latin America

Mexico

Brazil

Argentina

Colombia

Middle East & Africa

Turkey

Saudi Arabia

UAE

Key Drivers & Barriers

High-impact rendering factors and drivers have been studied in this report to aid the readers to understand the general development. Moreover, the report includes restraints and challenges that may act as stumbling blocks on the way of the players. This will assist the users to be attentive and make informed decisions related to business. Specialists have also laid their focus on the upcoming business prospects.

Reasons to Buy This Report

1. This report will help the readers to understand the competition within the industries and strategies for the competitive environment to enhance the potential profit. The report also focuses on the competitive landscape of the global Fumed Silica Powder market, and introduces in detail the market share, industry ranking, competitor ecosystem, market performance, new product development, operation situation, expansion, and acquisition. etc. of the main players, which helps the readers to identify the main competitors and deeply understand the competition pattern of the market.
2. This report will help stakeholders to understand the global industry status and trends of Fumed Silica Powder and provides them with information on key market drivers, restraints, challenges, and opportunities.
3. This report will help stakeholders to understand competitors better and gain more insights to strengthen their position in their businesses. The competitive landscape section includes the market share and rank (in volume and value), competitor ecosystem, new product development, expansion, and acquisition.
4. This report stays updated with novel technology integration, features, and the latest developments in the market
5. This report helps stakeholders to gain insights into which regions to target globally
6. This report helps stakeholders to gain insights into the end-user perception concerning the adoption of Fumed Silica Powder.
7. This report helps stakeholders to identify some of the key players in the market and understand their valuable contribution.

Chapter Outline

Chapter 1: Research objectives, research methods, data sources, data cross-validation;

Chapter 2: Introduces the report scope of the report, executive summary of different market segments (by region, product type, application, etc), including the market size of each market segment, future development potential, and so on. It offers a high-level view of the current state of the market and its likely evolution in the short to mid-term, and long term.

Chapter 3: Detailed analysis of Fumed Silica Powder manufacturers competitive landscape, price, production and value market share, latest development plan, merger, and acquisition information, etc.

Chapter 4: Provides profiles of key players, introducing the basic situation of the main companies in the market in detail, including product production/output, value, price, gross margin, product introduction, recent development, etc.

Chapter 5: Production/output, value of Fumed Silica Powder by region/country. It provides a quantitative analysis of the market size and development potential of each region in the next six years.

Chapter 6: Consumption of Fumed Silica Powder in regional level and country level. It provides a quantitative analysis of the market size and development potential of each region and its main countries and introduces the market development, future development prospects, market space, and production of each country in the world.

Chapter 7: Provides the analysis of various market segments by type, covering the market size and development potential of each market segment, to help readers find the blue ocean market in different market segments.

Chapter 8: Provides the analysis of various market segments by application, covering the market size and development potential of each market segment, to help readers find the blue ocean market in different downstream markets.

Chapter 9: Analysis of industrial chain, including the upstream and downstream of the industry.

Chapter 10: Introduces the market dynamics, latest developments of the market, the driving factors and restrictive factors of the market, the challenges and risks faced by manufacturers in the industry, and the analysis of relevant policies in the industry.

Chapter 11: The main points and conclusions of the report.

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