

Fluorosilicic Acid Market Opportunity, Growth Drivers, Industry Trend Analysis, and Forecast 2025 to 2034

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Report description:

The Global Fluorosilicic Acid Market, valued at USD 502.8 million in 2024, is projected to grow at a robust CAGR of 6.9% between 2025 and 2034. Increasing water pollution levels are driving demand for effective water treatment solutions, with fluorosilicic acid emerging as a key component in these processes. This colorless, fuming liquid is a by-product of manufacturing phosphoric acid and hydrogen fluoride. Often neutralized to ensure safety, it is commercially available in both pure and technical grades, with concentrations of up to 70%. Its applications span multiple industries, including cement and ceramic hardening, water fluoridation, wood preservation, textiles, metal processing, and oil well acidizing.

In addition to its role in industrial applications, fluorosilicic acid is widely used for sterilization, rust removal, neutralizing agents, and commercial laundry. The growing textile industry has particularly benefited from its ability to remove rust and stains, driving demand further. Factors such as cost efficiency, environmental sustainability, and advancements in production processes have significantly contributed to market growth.

The 40% grade segment, valued at USD 233.6 million in 2024, is expected to grow at a CAGR of 6.7% during the forecast period. Widely used in water fluoridation, this grade helps maintain optimal fluoride levels to support dental health. Rising awareness of oral hygiene and an increasing demand for water treatment chemicals are fueling its adoption. Government initiatives to address water contamination and growing investments in public health are key factors boosting the demand for fluorosilicic acid. The 40% grade is also extensively utilized in the textile sector as a cleaner and pH adjuster, further driving its growth.

The silicofluorides segment, valued at USD 107.5 million in 2024, is anticipated to grow at a CAGR of 7.1% from 2025 to 2034. Increasing urbanization, rising water pollution, and stringent regulatory measures are propelling demand for water treatment chemicals. Industrial growth and the global focus on safe drinking water are additional drivers for this segment.

In the U.S., the fluorosilicic acid market was valued at USD 170.5 million in 2024 and is forecasted to grow at a 7.2% CAGR. The

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increasing emphasis on oral health and safe drinking water, combined with the rising consumption of oral care products, is expected to significantly contribute to market expansion during the forecast period.

Table of Contents:

Report Content

Chapter 1 Methodology & Scope

1.1 Market scope & definitions

1.2 Base estimates & calculations

1.3 Forecast calculations

1.4 Data sources

1.4.1 Primary

1.4.2 Secondary

1.4.2.1 Paid sources

1.4.2.2 Public sources

Chapter 2 Executive Summary

2.1 Industry synopsis, 2021-2034

Chapter 3 Industry Insights

3.1 Industry ecosystem analysis

3.1.1 Factor affecting the value chain

3.1.2 Profit margin analysis

3.1.3 Disruptions

3.1.4 Future outlook

3.1.5 Manufacturers

3.1.6 Distributors

3.2 Supplier landscape

3.3 Profit margin analysis

3.4 Key news & initiatives

3.5 Regulatory landscape

3.6 Impact forces

3.6.1 Growth drivers

3.6.1.1 Increasing demand for fluorosilicic acid in fluoridation of drinking

3.6.1.2 Growing demand for fluorosilicic acid in dental medication

3.6.1.3 Growing trends towards the textile industry

3.6.2 Industry pitfalls & challenges

3.6.2.1 Unhinged research potential, limited clinical efficacy and easy availability of substitutes

3.7 Growth potential analysis

3.8 Porter's analysis

3.9 PESTEL analysis

Chapter 4 Competitive Landscape, 2024

4.1 Introduction

4.2 Company market share analysis

4.3 Competitive positioning matrix

4.4 Strategic outlook matrix

Chapter 5 Market Estimates & Forecast, By Grade, 2021-2034 (USD Million) (Kilo Tons)

5.1 Key trends

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5.2 40% grade

5.3 35% grade

5.4 25% grade

Chapter 6 Market Estimates & Forecast, By Application, 2021-2034 (USD Million) (Kilo Tons)

6.1 Key trends

6.2 Water fluoridation

6.3 Textile processing

6.4 Metal surface treatment

6.5 Hydrogen fluoride

6.6 Aluminum fluoride

6.7 Silicofluorides

6.8 Electroplating

6.9 Hide processing

6.10 Oil well acidizing

6.11 Others

Chapter 7 Market Estimates & Forecast, By Region, 2021-2034 (USD Million) (Kilo Tons)

7.1 Key trends

7.2 North America

7.2.1 U.S.

7.2.2 Canada

7.3 Europe

7.3.1 UK

7.3.2 Germany

7.3.3 France

7.3.4 Italy

7.3.5 Spain

7.3.6 Russia

7.4 Asia Pacific

7.4.1 China

7.4.2 India

7.4.3 Japan

7.4.4 South Korea

7.4.5 Australia

7.5 Latin America

7.5.1 Brazil

7.5.2 Mexico

7.6 MEA

7.6.1 South Africa

7.6.2 Saudi Arabia

7.6.3 UAE

Chapter 8 Company Profiles

8.1 American Elements

8.2 Foshan Nanhai Shuangfu

8.3 Gelest

8.4 Hawkins

8.5 Honeywell International

8.6 Hydrite Chemical

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8.7 IXOM

8.8 Napco Chemical Company

8.9 Solvay

8.10 Xinxiang Yellow River Fine Chemicals

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