

**Fluorosilicic Acid Market By Grade (25%, 35%, 40%, Others), By Application (Water Fluoridation, Textile Processing, Metal Surface Treatment, Hide Processing, Oil Well Acidizing, Others): Global Opportunity Analysis and Industry Forecast, 2021-2031**

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**Report description:**

The fluorosilicic acid market was valued at \$389.4 million in 2021, and is projected to reach \$727.4 million by 2031, growing at a CAGR of 6.5% from 2022 to 2031.

Fluorosilicic acid is an organic colorless fuming liquid with a penetrating pungent odor. It is produced as a by-product of phosphoric acid and hydrogen fluoride. Fluorosilicic acid is typically disposed of by neutralizing it with limestone or milk of lime to produce safe inert waste products. Commercially, fluorosilicic acid is offered as an up to 70% pure chemical grade and technical grade aqueous solution. Fluorosilicic acid finds application in wood preservative as well as it is frequently utilized in a variety of processes, such as acidifying oil wells, fluoridating water in water treatment plants, and processing textiles, metals, and electroplating.

In addition, fluorosilicic acid is used in a variety of operations, including sterilization, commercial washing, rust removal and neutralizing agents. Due to its application in removing stains & rust from fabrics, there has been increased in demand for fluorosilicic acid from the textile industry. In addition, the expansion of the fluorosilicic acid market will be aided by factors such as affordability, high product quality and environmental friendliness, simple access to raw materials, and modernization of the manufacturing facilities.

The need for water chemicals is anticipated to rise as a result of rising global water usage and strict government regulations. The fluorosilicic acid market is also expected to be driven by increased industrial activity and growing consumer awareness of the importance of safe water sources for drinking water systems due to growing health concerns. In addition, the American Dental Association, WHO, the American Academy of Pediatrics, and other medical, dental, and public groups, including the U.S. Public Health Service are encouraging community water fluoridation, which is projected to support market expansion.

The demand for fluorosilicic acid will be driven by the growing practice of water fluoridation, which involves adding industrial-grade fluoride chemicals to the water to prevent tooth decay, as well as the growing consumer demand for natural

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ingredients in oral care products such as floss and mouthwash. Moreover, the availability of various types of denture products and increasing older population will increase demand for oral care products, which will fuel market expansion. Strict government restrictions to reduce water contamination and rising government spending on water treatment projects will further drive the demand for fluorosilicic acid. In the textile industry, fluorosilicic acid with a 40% purity is frequently used as a cleaning and pH adjuster.

However, fuming the property and corrosive nature of fluorosilicic acid may hamper its demand. Fluorosilicic acid is a by-product of the phosphate fertilizer industry, therefore it may be contaminated with radioactive elements and heavy metals which may act as a market restraint.

The fluorosilicic acid market is segmented on the basis of grade and application. By grade, the market is categorized into 25%, 35%, 40% and others. On the basis of application, the market is fragmented into water fluoridation, textile processing, metal surface treatment, hide processing, oil well acidizing and others. On the basis of region, the market is studied across North America, Europe, Asia-Pacific, and LAMEA.

Major players operating in the global fluorosilicic acid market are American Elements, Foshan Nanhai Shuangfu Chemical Co., Ltd, Gelest Inc., Hawkins, Inc., Honeywell International Inc., Hydrite Chemical, IXOM, KC Industries, LLC, Merck KGaA, Napco Chemical Company, Solvay SA, Thermo Fisher Scientific Inc., Univar Solutions Inc., VWR International, LLC., and Xingxiang Yellow River Fine Chemical Industry Co., Ltd. Other players operating in the fluorosilicic acid market are Buss ChemTech AG, Sinochem International Corp., Tanfac Industries Ltd., Fubao Group, and Navin Fluorine International Limited.

Japan and South Korea Overview

-The Asia-Pacific region is home to a large number of the world's leading manufacturers of fluorosilicic acid. China, Japan, South Korea, and India are the four countries that are home to majority of the manufacturing plants.

-Asia-Pacific is expected to be the region with the highest growth rate, led by Japan and South Korea.

-Changing consumption patterns, rapid urbanization, a growing population, substantial economic development, and rising per capita income are the primary factors influencing the market's expansion.

IMPACT OF COVID-19 ON THE GLOBAL FLUOROSILICIC ACID MARKET

-The recent COVID-19 pandemic negatively impacted the market for Fluorosilicic Acids in a significant way.

-Fluorosilicic acid demand was muted for six months in 2020 as a result of the Covid-19 outbreak, which had a substantial impact on the market. Construction, manufacturing, and chemical end-use industries, among others, have all experienced significant market growth. For instance, the building sector is well-established in the United States. Up until 2019, the building sector gave the American economy a \$ 2 trillion boost. The epidemic caused the amount to decrease to \$1.3 trillion in 2020. The development of all associated industries has been hampered as a result. A number of ongoing projects have been shelved or delayed.

-The automobile industry had seen a more than 20% decrease in the use of fluorosilicic acid for the manufacture of aluminium. The total output of vehicles in this sector directly affects the need for aluminium. The acid market consequently saw a similar impact on demand. The closure of showrooms, the complete and partial stoppage of manufacturing facilities, the restricted movement of goods, the ban on import and export activities, and other factors contributed to this.

-Large oil, gas, and chemical firms are reducing capital and operational expenditures.

-Companies with high debt and insufficient cash flow are more prone to encounter liquidity difficulties, and some may be forced to close their doors permanently.

Key Benefits For Stakeholders

-This report provides a quantitative analysis of the market segments, current trends, estimations, and dynamics of the fluorosilicic acid market analysis from 2021 to 2031 to identify the prevailing fluorosilicic acid market opportunities.

-The market research is offered along with information related to key drivers, restraints, and opportunities.

-Porter's five forces analysis highlights the potency of buyers and suppliers to enable stakeholders make profit-oriented business decisions and strengthen their supplier-buyer network.

-In-depth analysis of the fluorosilicic acid market segmentation assists to determine the prevailing market opportunities.

-Major countries in each region are mapped according to their revenue contribution to the global market.

-Market player positioning facilitates benchmarking and provides a clear understanding of the present position of the market players.

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-The report includes the analysis of the regional as well as global fluorosilicic acid market trends, key players, market segments, application areas, and market growth strategies.

#### Key Market Segments

##### By Grade

- 35%
- 40%
- 25%
- Others

##### By Application

- Water Fluoridation
- Textile Processing
- Metal Surface Treatment
- Hide Processing
- Oil Well Acidizing
- Others

##### By Region

- North America
- U.S.
- Canada
- Mexico
- Europe
- Germany
- France
- UK
- Spain
- Italy
- Rest Of Europe
- Asia-Pacific
- China
- Japan
- India
- South Korea
- Australia
- Rest Of Asia-Pacific
- LAMEA
- Brazil
- Saudi Arabia
- South Africa
- Rest Of LAMEA
- Key Market Players
- American Elements
- Foshan Nanhai Shuangfu Chemical Co.
- Gelest Inc.
- Hawkins, Inc.
- Honeywell International Inc.
- Hydrite Chemical
- ixom

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- kc industries
- Merck KGaA
- Napco Chemical Company
- Solvay SA
- Thermo Fisher Scientific Inc
- Xingxiang Yellow River Fine Chemical Industry Co., Ltd.
- VWR International, LLC
- Univar Solutions Inc.

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