

Fluorosilicic Acid Market Opportunity, Growth Drivers, Industry Trend Analysis, and Forecast 2024 - 2032

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Report description:

The Global Fluorosilicic Acid Market was valued at USD 464.3 million in 2023 and is anticipated to grow at 8.3% CAGR from 2024 to 2032. This growth can be attributed to the increasing need for water treatment solutions due to rising levels of groundwater and surface water contamination. Fluorosilicic acid is a colorless, fuming liquid with a strong, pungent odor, produced as a by-product during the manufacturing of hydrogen fluoride and phosphoric acid. Typically, it is neutralized with limestone or milk of lime to convert it into safe, inert waste products.

Commercially, fluorosilicic acid is available in aqueous solutions of up to 70%, classified into chemically pure and technical grades. It has a wide range of applications, including hardening cement and ceramics, water fluoridation, and serving as a wood preservative. Additionally, it is extensively utilized in various sectors such as oil well acidizing, water treatment plants, oil well acidizing, textile manufacturing, and metal processing.

The 40% grade of fluorosilicic acid is expected to generate USD 410.4 million and achieve 7.9% CAGR until 2032. This concentration is primarily used for the fluoridation of public drinking water, where it helps maintain optimal fluoride levels to combat tooth decay. Numerous health organizations advocate for community water fluoridation, which is projected to enhance market growth. Furthermore, the evolving preferences of consumers and the expanding retail landscape are driving growth in the textile sector, which will contribute to the increasing market share of the 40% grade.

The silicofluorides segment accounted for 20.57% of the market share in 2023, valued at USD 99 million, and is forecasted to grow at an 8.7% CAGR from 2024 to 2032. The demand for silicofluorides is fueled by a rising urban population, increasing water pollution levels, and heightened health consciousness. As global water consumption rises, stringent governmental regulations are further propelling the need for water treatment chemicals. Additionally, the growth of industrial activities and a growing awareness of the necessity for safe drinking water systems are expected to drive revenues in the fluorosilicic acid market.

In North America, the fluorosilicic acid industry is estimated to reach USD 367.2 million, with an 8.6% CAGR from 2024 to 2032. This growth is driven by the expanding application scope of the product in public drinking water systems, as government regulations require municipal corporations to implement fluoridating agents. Public health agencies recognize water fluoridation as a critical measure in preventing dental issues, further solidifying its role in community health initiatives.

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