

Europe Fluorosilicic Acid Market Size, Share & Trends Analysis Report By Grade (25%, 35%, 40%), By Application (Hydrogen Fluoride, Aluminum Fluoride), By Country, And Segment Forecasts, 2020 - 2027

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Abstracts

Europe Fluorosilicic Acid Market Growth & Trends

The Europe fluorosilicic acid market size is projected to reach USD 74.27 million by 2027, expanding at a revenue-based CAGR of 4.5%, according to a new report by Grand View Research, Inc. Rising metal surface treatment and cleaning activities across Europe is projected to drive the demand for fluorosilicic acid. Demand for metal cleaners is driven by the increasing utilization of metal components from a broad range of sectors, such as agriculture, automotive, building and construction, textile production, and electronics producers.

In recent years, 35% grade of fluorosilicic acid has gained popularity over other grades as it is used as a source of fluoride in the manufacturing of various hexafluorosilicate salts, as an organic reagent in the silylation process, as an electrolyte in Betts electrolytic process of lead refining, in wood preservation, manufacturing of disinfectants, and in the surface modification of calcium carbonate. Leading manufacturer, Honeywell International Inc., produces and supplies its fluorosilicic acid in this grade, especially to the metal surface treatment industry, while Xinxiang Yellow River Fine Chemical Industry Co., Ltd. caters to the demand from various applications including the manufacturing of fluorosilicates, disinfectants, and refining lead by electrolysis.

Manufacturing of high-density aluminum fluoride (AlF₃) is one of the major applications of fluorosilicic acid. AlF₃ is highly consumed as a molten electrolyte in manufacturing of

aluminum. Other applications of the product include manufacturing of fluoroaluminate glass and ceramic.

Aluminum has a high demand in the manufacturing of lightweight vehicle parts in automotive industry. Food and beverage industry highly prefers aluminum to produce cans owing to its rapid recycling rate. The metal also has a high demand in construction and aerospace industries owing to high resistance to corrosion and lightweight properties. These factors are anticipated to create a high demand for aluminum in the coming years, in turn, generating high demand for aluminum fluoride in aluminum manufacturing.

Spain was the largest consumer of fluorosilicic acid in Europe in 2019. Every year, Spain imports fluorosilicic acid, fluorosilicates, and other fluoride compounds worth over USD 15 million to cater to the domestic demand of the products in various end-use industries. China, Mexico, and Russia are the major sources of import for the country. Growing product demand in the surface treatment, electroplating, and lead refining industries is expected to propel the product consumption in near future.

Europe Fluorosilicic Acid Market Report Highlights

The demand for 35% fluorosilicic acid is expected to expand at a CAGR of 4.0% from 2020 to 2027 by volume owing to increasing demand in various hexafluorosilicate salts, as an organic reagent in the silylation process, as an electrolyte in Betts electrolytic process of lead refining

Water fluoridation accounted for a market share of 1.12% in 2019 owing to growing concerns surrounding fluorine content in drinking water

Electroplating application is expected to expand at a CAGR of 3.8% from 2020 to 2027 by revenue owing to its application in manufacturing of pure lead which is used in the manufacture of electric batteries, ammunition, and lead alloys

Russia was valued at USD 4,146.8 thousand in 2019 owing to rising application in the synthesis of hydrogen and aluminum fluoride

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