

Fluorinated Plasma Surface Treatment Market: Segmented by Type (low-pressure plasma and atmospheric plasma), By End user (Leather, textile and others), and Region – Global Analysis of Market Size, Share & Trends for 2019–2020 and Forecasts to 2030

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Abstracts

[176+ Pages Research Report] Global Fluorinated Plasma Surface Treatment Market to surpass USD xx billion by 2030 from USD xx billion in 2020 at a CAGR of 13.4% in the coming years, i.e., 2021-30.

Product Overview

Fluorinated plasma surface treatment is a method that uses fluorine gas to change surface attributes like wettability, surface bonding, surface energy, and adhesion. In many end-use industries, it is commonly employed as a pretreatment procedure for diverse surfaces such as polymers, glass, fibers, elastomers, ceramics, and metals. When exposed to fluorine gas, fluorinated plasma treatment is used to adjust surface attributes such as wettability, surface bonding, surface energy, and adhesion. Low-pressure plasma and atmospheric plasma are the two types of plasma processes used. The most frequent treatment for cleaning contaminated components, plasma activation, etching, and coating polymers is low-pressure plasma. Atmospheric plasma treatment, on the other hand, is appropriate when small surfaces of large parts need to be treated.

Market Highlights

Global Fluorinated Plasma Surface Treatment market is expected to project a notable CAGR of 13.4% in 2030.

The rising uses of surface modification in interior and exterior sections of automobiles, the developing textile industry in Asia-Pacific, and the growing demand for fluorinated plasma surface treatment in a variety of end-use applications are all driving the global market forward. Furthermore, due to the increased demand for surface modification of natural and synthetic fibers in the textile industry, the demand for fluorinated plasma surface treatment is expected to skyrocket.

Global Fluorinated Plasma Surface Treatment: Segments

Low-pressure plasma segment to grow with the highest CAGR during 2020-30

Global Fluorinated Plasma Surface Treatment market is segmented by type into low-pressure plasma and atmospheric plasma. Low-pressure plasma segment held the largest market share in the year 2020. The most frequent treatment for cleaning contaminated components, plasma activation, etching, and coating polymers is low-pressure plasma. Atmospheric plasma treatment, on the other hand, is appropriate when small surfaces of large parts need to be treated.

Textile segment to grow with the highest CAGR during 2020-30

Global Fluorinated Plasma Surface Treatment market is divided by end-user into Leather, textile, and others. In 2020, the textile sector is expected to lead the global market in terms of value, based on industry. Due to the increased demand for surface modification of natural and synthetic fibers in the textile sector, the demand for fluorinated plasma surface treatment is expected to skyrocket. Furthermore, rising applications of surface modification in interior and exterior parts of automobiles, the expanding textile sector in Asia-Pacific, and the growing demand for fluorinated plasma surface treatment in a variety of end-use applications are all driving the global market forward.

Market Dynamics

Drivers

Demand in the automobile and textile industry

The increasing uses of surface modification in interior and exterior sections of automobiles, the growing textile industry in APAC, and the rising demand for fluorinated plasma surface treatment in a variety of end-use applications are the major reasons driving the global market's growth. The increased demand for surface modification of natural and synthetic fibers in the textile industry is expected to drive up demand for

fluorinated plasma surface treatment.

Improvement in wettability of polymer substrate's surface

Plasma treatment improves the wettability of the polymer substrate's surface, improves the dyeing behavior of reactive and natural dyes on cotton fabrics, and improves the surface property of the textile. Moreover, rising demand from emerging nations such as India and China, owing to the expansion of their electronics and textile industries, is expected to drive demand for fluorinated plasma surface treatment in the near future.

Restraint

Dangers of gas and availability of substitutes

The market's expansion is hampered by the dangers of fluorine gas and the availability of viable substitutes such as laser cleaning.

Global Fluorinated Plasma Surface Treatment: Key Players

3DT LLC

Company Overview, Business Strategy, Key Product Offerings, Financial Performance, Key Performance Indicators, Risk Analysis, Recent Development, Regional Presence, SWOT Analysis

Nordson Corporation

Plasmatreat

AcXys Technologies

Enercon Industries Corporation

Plasmalex

AST Products

Henniker Plasma

Eltech Engineers

Other Prominent Players

Global Fluorinated Plasma Surface Treatment: Regions

Global Fluorinated Plasma Surface Treatment market is segmented based on regional analysis into five major regions. These include North America, Latin America, Europe, Asia Pacific, and the Middle East, and Africa. The market in APAC is expected to hold highest CAGR over the forecasted period. Because of the rise of the automotive sector and the existence of several fluorinated plasma manufacturers in the region, Europe is expected to dominate the market and display a high CAGR during the forecast period.

Due to the huge expansion of the textiles and electronics industries in the region, Asia-Pacific is predicted to surpass the fluorinated plasma surface treatment market during the assessment period. Fluorinated plasma treatment is used to improve the surface properties of natural and synthetic fibers, particularly adhesion, printability, wettability, and dyeability of textile fabrics, as well as to reduce material shrinkage.

Global Fluorinated Plasma Surface Treatment is further segmented by region into:

North America Market Size, Share, Trends, Opportunities, Y-o-Y Growth, CAGR – United States and Canada
Latin America Market Size, Share, Trends, Opportunities, Y-o-Y Growth, CAGR – Mexico, Argentina, Brazil and Rest of Latin America
Europe Market Size, Share, Trends, Opportunities, Y-o-Y Growth, CAGR – United Kingdom, France, Germany, Italy, Spain, Belgium, Hungary, Luxembourg, Netherlands, Poland, NORDIC, Russia, Turkey and Rest of Europe
Asia Pacific Market Size, Share, Trends, Opportunities, Y-o-Y Growth, CAGR – India, China, South Korea, Japan, Malaysia, Indonesia, New Zealand, Australia and Rest of APAC
Middle East and Africa Market Size, Share, Trends, Opportunities, Y-o-Y Growth, CAGR – North Africa, Israel, GCC, South Africa and Rest of MENA
By Type
Low-pressure plasma
Atmospheric plasma
By End User
Leather
Textile
Others
Fluorinated Plasma Surface Treatment Dynamics
Fluorinated Plasma Surface Treatment Size
Supply & Demand
Current Trends/Issues/Challenges
Competition & Companies Involved in the Market
Value Chain of the Market
Market Drivers and Restraints
Fluorinated Plasma Surface Treatment Market Report Scope and Segmentation
Report Attribute Details
Market size value in 2020 USD xx billion
Revenue forecast in 2030 USD xx billion
Growth Rate CAGR of 13.4% from 2021 to 2030
Base year for estimation 2020
Quantitative units Revenue in USD million and CAGR from 2021 to 2030
Report coverage Revenue forecast, company ranking, competitive landscape, growth factors, and trends
Segments covered Type, end-user and Region
Regional scope North America, Europe, Asia Pacific, Latin America, Middle East & Africa (MEA)
Key companies profiled 3DT LLC, Nordson Corporation, Plasmatreat, AcXys Technologies, Enercon Industries Corporation, Plasmalex, AST Products, Henniker Plasma, Eltech Engineers, and Other Prominent Players

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****The above given segmentations and companies could be subjected to further modification based on in-depth feasibility studies conducted for the final deliverable.**

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