

Fluorocarbon Gas Market, Global Outlook and Forecast 2022-2028

<https://marketpublishers.com/r/FC1ADCF65F1BEN.html>

Date: April 2022

Pages: 70

Price: US\$ 3,250.00 (Single User License)

ID: FC1ADCF65F1BEN

Abstracts

Fluorocarbons, sometimes referred to as perfluorocarbons or PFCs, are organofluorine compounds with the formula C_xF_y , i.e., they contain only carbon and fluorine. Compounds with the prefix perfluoro- are hydrocarbons, including those with heteroatoms, wherein all C-H bonds have been replaced by C-F bonds. Electronics Manufacturing industries that use fluorocarbon gases for etching and chamber cleaning include liquid crystal displays (LCDs), photovoltaic cells (PV), and semiconductors (including light-emitting diodes). A range of gases are used in two important steps of electronics manufacturing: Plasma etching silicon containing materials and cleaning chemical vapour deposition (CVD) tool chamber-walls where silicon has deposited. The use of fluorocarbon gases in these processes is crucial to the production of devices, as there are no effective substitutes that can be utilized.

This report contains market size and forecasts of Fluorocarbon Gas in global, including the following market information:

Global Fluorocarbon Gas Market Revenue, 2017-2022, 2023-2028, (\$ millions)

Global Fluorocarbon Gas Market Sales, 2017-2022, 2023-2028, (MT)

Global top five Fluorocarbon Gas companies in 2021 (%)

The global Fluorocarbon Gas market was valued at 727.1 million in 2021 and is projected to reach US\$ 1045.8 million by 2028, at a CAGR of 5.3% during the forecast period 2022-2028.

The U.S. Market is Estimated at \$ Million in 2021, While China is Forecast to Reach \$

Million by 2028.

Tetrafluoromethane (CF₄) Segment to Reach \$ Million by 2028, with a % CAGR in next six years.

The global key manufacturers of Fluorocarbon Gas include Linde Gas, Showa Denko, Taiyo Nippon Sanso, Air Liquide, Kanto Denka Kogyo, Versum Materials (Merck), Foosung Co., Ltd., SK Materials and Huate Gas, etc. In 2021, the global top five players have a share approximately % in terms of revenue.

MARKET MONITOR GLOBAL, INC (MMG) has surveyed the Fluorocarbon Gas manufacturers, suppliers, distributors and industry experts on this industry, involving the sales, revenue, demand, price change, product type, recent development and plan, industry trends, drivers, challenges, obstacles, and potential risks.

Total Market by Segment:

Global Fluorocarbon Gas Market, by Type, 2017-2022, 2023-2028 (\$ Millions) & (MT)

Global Fluorocarbon Gas Market Segment Percentages, by Type, 2021 (%)

Tetrafluoromethane (CF₄)

Hexafluoroethane (C₂F₆)

Octafluoropropane (C₃F₈)

Hexafluorobutadiene (C₄F₆)

Octafluorocyclobutane (C₄F₈)

Tetrafluoromethane (CHF₃)

Others

Global Fluorocarbon Gas Market, by Application, 2017-2022, 2023-2028 (\$ Millions) & (MT)

Global Fluorocarbon Gas Market Segment Percentages, by Application, 2021 (%)

Integrated Circuits

Display Panels

Solar

LED & Others

Global Fluorocarbon Gas Market, By Region and Country, 2017-2022, 2023-2028 (\$ Millions) & (MT)

Global Fluorocarbon Gas Market Segment Percentages, By Region and Country, 2021 (%)

North America

US

Canada

Mexico

Europe

Germany

France

U.K.

Italy

Russia

Nordic Countries

Benelux

Rest of Europe

Asia

China

Japan

South Korea

Southeast Asia

India

Rest of Asia

South America

Brazil

Argentina

Rest of South America

Middle East & Africa

Turkey

Israel

Saudi Arabia

UAE

Rest of Middle East & Africa

Competitor Analysis

The report also provides analysis of leading market participants including:

Key companies Fluorocarbon Gas revenues in global market, 2017-2022 (Estimated), (\$ millions)

Key companies Fluorocarbon Gas revenues share in global market, 2021 (%)

Key companies Fluorocarbon Gas sales in global market, 2017-2022 (Estimated), (MT)

Key companies Fluorocarbon Gas sales share in global market, 2021 (%)

Further, the report presents profiles of competitors in the market, key players include:

Linde Gas

Showa Denko

Taiyo Nippon Sanso

Air Liquide

Kanto Denka Kogyo

Versum Materials (Merck)

Foosung Co., Ltd.

SK Materials

Huate Gas

Kemeite (Yoke Technology)

Haohua

Jinhong Gas

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