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# Global Perfluorocarbons Market Growth 2025-2031

https://marketpublishers.com/r/GB79B161C8F8EN.html
Date: January 2025
Pages: 90
Price: US$ 3,660.00 (Single User License)
ID: GB79B161C8F8EN

## Abstracts

**The report requires updating with new data and is sent in 48 hours after order is placed.**

The global Perfluorocarbons market size is predicted to grow from US$ 858 million in 2025 to US$ 1233 million in 2031; it is expected to grow at a CAGR of 6.2% from 2025 to 2031.

Fluorocarbons, sometimes referred to as perfluorocarbons or PFCs, are organofluorine compounds with the formula CxFy, 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 Compounds with the prefix perfluoro- are hydrocarbons, including those with heteroatoms, wherein all C-H bonds have been replaced by C-F bonds.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.

Note: In this report, the production=consumption, didn’t consider the volume in stock.

The Perfluorocarbons market is global, with key demand centers in China, Europe, Japan, South Korea, Southeast Asia, China Taiwan and the United States.

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Currently, the Perfluorocarbons market is highly concentrated, dominated by several manufacturers, players such as Showa Denko, Kanto Denka Kogyo, Linde Gas, Air Liquide, Versum Materials (Merck), Taiyo Nippon Sanso are playing important roles in Fluorocarbon Gas industry. Top 5 took up more than 70% of the global market in terms of revenue.

The market can be segmented into: Tetrafluoromethane (CF4), Hexafluoroethane (C2F6), Octafluoropropane (C3F8), Hexafluorobutadiene (C4F6), Octafluorocyclobutane (C4F8)?Tetrafluoromethane (CHF3) and Others. Tetrafluoromethane (CF4), is the most commonly used and efficient types.

Perfluorocarbons are widely used in the production of semiconductors and electronic components, and the market is growing as demand for electronic products increases.

LP Information, Inc. (LPI) ' newest research report, the “Perfluorocarbons Industry Forecast” looks at past sales and reviews total world Perfluorocarbons sales in 2024, providing a comprehensive analysis by region and market sector of projected Perfluorocarbons sales for 2025 through 2031. With Perfluorocarbons sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US$ millions of the world Perfluorocarbons industry.

This Insight Report provides a comprehensive analysis of the global Perfluorocarbons landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyzes the strategies of leading global companies with a focus on Perfluorocarbons portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms’ unique position in an accelerating global Perfluorocarbons market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Perfluorocarbons and breaks down the forecast by Type, by Application, geography, and market size to highlight emerging pockets of opportunity. With a transparent methodology based on hundreds of bottom-up qualitative and quantitative market inputs, this study forecast offers a highly nuanced view of the current state and future trajectory in the global Perfluorocarbons.

This report presents a comprehensive overview, market shares, and growth opportunities of Perfluorocarbons market by product type, application, key

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manufacturers and key regions and countries.

Segmentation by Type:

Carbon Tetrafluoride (CF4)

Hexafluoro-Ethane(C2F6)

Octafluoro-Propane (C3F8)

Octafluoro-Cyclobutane(C4F8)

Hexafluoro-Butadiene(C4F6)

Segmentation by Application:

Gas for Electronic Etching

Cleaning of Semiconductor Manufacturing Equipment

Optical Fiber Production

Medical Enhanced Ultrasonography

Subzero Refrigeration

Others

This report also splits the market by region:

Americas

United States

Canada

Mexico

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- Brazil

APAC

- China
- Japan
- Korea
- Southeast Asia
- India
- Australia

Europe

- Germany
- France
- UK
- Italy
- Russia

Middle East & Africa

- Egypt
- South Africa
- Israel
- Turkey

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GCC Countries

The below companies that are profiled have been selected based on inputs gathered from primary experts and analysing the company's coverage, product portfolio, its market penetration.

Huate Gas

Yoke Technology

Jinhong Gas

Britech

Peric

Haohua Chemical Science & Technology

Yongjing Technology

Sichuan Fuhuaxin

Feiyuan Chemical

Linggas

Key Questions Addressed in this Report

What is the 10-year outlook for the global Perfluorocarbons market?

What factors are driving Perfluorocarbons market growth, globally and by region?

Which technologies are poised for the fastest growth by market and region?

How do Perfluorocarbons market opportunities vary by end market size?

How does Perfluorocarbons break out by Type, by Application?

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