

Global Electronic Grade Fluoroethylene Carbonate Market Growth 2023-2029

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Abstracts

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Fluorinated ethylene carbonate (FEC) is a core additive developed for the electrolyte of high-rate power lithium-ion batteries. It is the main guarantee for achieving high safety and high rate of lithium batteries, and can enhance the stability of electrode materials. . The electrolyte added with FEC can form an effective SEI film on the surface of the battery electrode, increase the lithium ion migration rate of the battery, and significantly improve the charge-discharge performance of the battery at high rates. At the same time, in terms of silicon carbon negative electrode, FEC can suppress the problem of structural fragmentation of the negative electrode due to the volume expansion of lithium intercalation in the silicon carbon negative electrode due to its thin SEI film, toughness and self-healing properties under the condition of charge and discharge, and greatly improve the silicon carbon negative electrode. It has a long service life and promotes the wide application of silicon carbon anodes. At present, lithium batteries with FEC added are mainly suitable for vehicles in the field of hybrid and pure electric vehicles, and are expected to be used for energy storage in the fields of solar energy and wind energy in the future. One of the technical routes of FEC products is to use ethylene carbonate as raw material, obtain chloroethylene carbonate through chlorination, and then convert fluoroethylene carbonate through potassium fluoride, and further refine to obtain technical grade fluoroethylene carbonate products. The obtained industrial grade fluoroethylene carbonate product is further refined through a series of self-developed purification methods to obtain electronic grade fluoroethylene carbonate product. In the early industry, fluorine gas was generally used to directly fluoride ethylene carbonate (EC) to prepare FEC products. However, the fluorine gas used in this process has defects such as being highly toxic and explosive. low sex.

LPI (LP Information)' newest research report, the “Electronic Grade Fluoroethylene Carbonate Industry Forecast” looks at past sales and reviews total world Electronic Grade Fluoroethylene Carbonate sales in 2022, providing a comprehensive analysis by region and market sector of projected Electronic Grade Fluoroethylene Carbonate sales for 2023 through 2029. With Electronic Grade Fluoroethylene Carbonate sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world Electronic Grade Fluoroethylene Carbonate industry.

This Insight Report provides a comprehensive analysis of the global Electronic Grade Fluoroethylene Carbonate 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 Electronic Grade Fluoroethylene Carbonate portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Electronic Grade Fluoroethylene Carbonate market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Electronic Grade Fluoroethylene Carbonate and breaks down the forecast by purity, 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 Electronic Grade Fluoroethylene Carbonate.

The global Electronic Grade Fluoroethylene Carbonate market size is projected to grow from US\$ million in 2022 to US\$ million in 2029; it is expected to grow at a CAGR of % from 2023 to 2029.

United States market for Electronic Grade Fluoroethylene Carbonate is estimated to increase from US\$ million in 2022 to US\$ million by 2029, at a CAGR of % from 2023 through 2029.

China market for Electronic Grade Fluoroethylene Carbonate is estimated to increase from US\$ million in 2022 to US\$ million by 2029, at a CAGR of % from 2023 through 2029.

Europe market for Electronic Grade Fluoroethylene Carbonate is estimated to increase

from US\$ million in 2022 to US\$ million by 2029, at a CAGR of % from 2023 through 2029.

Global key Electronic Grade Fluoroethylene Carbonate players cover HSC Corporation, Suzhou Cheerchem Advanced Material, Jiangsu Hicomer New Material, Suzhou Huayi New Energy Technology, Zhejiang Tianshuo Fluorosilicone New Material Technology, Rongcheng Qing Mu High-Tech Materials, Wako Pure Chemical Industries, Solvay and Kishida Chemical, etc. In terms of revenue, the global two largest companies occupied for a share nearly % in 2022.

This report presents a comprehensive overview, market shares, and growth opportunities of Electronic Grade Fluoroethylene Carbonate market by product purity, application, key manufacturers and key regions and countries.

Market Segmentation:

Segmentation by purity

99.95% and Above

99.5% and Above

99% and Above

Segmentation by application

Hybrid Car

HEV

Other

This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

APAC

China

Japan

Korea

Southeast Asia

India

Australia

Europe

Germany

France

UK

Italy

Russia

Middle East & Africa

Egypt

South Africa

Israel

Turkey

GCC Countries

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

HSC Corporation

Suzhou Cheerchem Advanced Material

Jiangsu Hicomer New Material

Suzhou Huayi New Energy Technology

Zhejiang Tianshuo Fluorosilicone New Material Technology

Rongcheng Qing Mu High-Tech Materials

Wako Pure Chemical Industries

Solvay

Kishida Chemical

Guangzhou Tinci

Zhejiang Yongtai Technology

Fujian Chuangxin

Shandong Yonghao New Material Technology

Yuji SiFluo

Key Questions Addressed in this Report

What is the 10-year outlook for the global Electronic Grade Fluoroethylene Carbonate market?

What factors are driving Electronic Grade Fluoroethylene Carbonate market growth, globally and by region?

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

How do Electronic Grade Fluoroethylene Carbonate market opportunities vary by end market size?

How does Electronic Grade Fluoroethylene Carbonate break out purity, application?

What are the influences of COVID-19 and Russia-Ukraine war?

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