

Global Carbon Fluoride Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

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Abstracts

According to our (Global Info Research) latest study, the global Carbon Fluoride market size was valued at US\$ 590 million in 2025 and is forecast to a readjusted size of US\$ 875 million by 2032 with a CAGR of 5.7% during review period.

In 2025, global sales volume of carbon fluoride reached 119,000 tons, with an average price of \$4,833 per ton.

Carbon fluoride typically refers to compounds of fluorine and carbon?most notably polycarbon monofluoride (or fluorinated graphite). It is a functional material characterized by ultra-low surface energy, high chemical stability, and high energy density; it is frequently utilized in applications such as lithium battery cathodes, solid lubricants, and high-performance corrosion-resistant coatings.

Kanto Denka Kogyo monopolizes Carbonyl Fluoride (CAS 353-50-4), holding a share over 80%. Japan is the largest market, with a share about 80%, followed by USA and Europe, both have a share over 15 percent. In terms of product, Purity?99% is the largest segment, with a share about 99%. And in terms of application, the largest application is Electronic Industry, followed by Chemical Intermediate, etc.

The raw material system for carbon fluoride consists of three core components: high-purity graphite, fluorine gas (F₂) or hydrogen fluoride (HF), and catalysts/additives. Graphite feedstock can be sourced from either natural graphite (flake graphite, expanded graphite) or synthetic graphite (graphitized products derived from petroleum coke or pitch coke). Natural graphite dominates the market due to its lower cost and abundant supply (with China accounting for over 70% of global production); however,

battery-grade products impose stringent requirements on graphite purity, crystallinity, and interlayer spacing. Consequently, the production of battery-grade materials necessitates the selection of high-crystallinity, large-flake natural graphite or specialized synthetic graphite raw materials that carry significantly higher costs than ordinary graphite. In 2024, the price of ordinary graphite ranged from approximately \$300 to \$600 per ton, whereas the price of battery-grade high-purity graphite could reach several thousand dollars per ton. Fluorine gas serves as the core reactant in the fluorination process and is produced via the electrolysis of anhydrous hydrogen fluoride (AHF). Given its extreme reactivity and toxicity, fluorine gas requires specialized high-pressure containers and strict safety protocols for storage and transportation. While the price of AHF typically ranges from \$1,000 to \$1,500 per ton, the electrolysis process required to generate fluorine gas is highly energy-intensive. Catalysts (such as metal fluorides like LiF and MgF₂) are employed to enhance reaction selectivity and improve the electrical conductivity of the final product; although required in small quantities, these catalysts demand exceptionally high levels of purity. In terms of cost structure, raw material costs account for 40% to 55% of total costs, with high-purity graphite and fluorine/hydrogen fluoride representing the primary cost components. Processing costs account for 30% to 40%; the high-temperature fluorination reaction (300–600°C) must be conducted in corrosion-resistant reactors (typically nickel-based or Monel alloys), entailing substantial equipment investment and high maintenance costs. Furthermore, the reaction is highly exothermic, requiring precise temperature control and resulting in significant energy consumption. Purification and classification costs account for 10% to 15%, as battery-grade products require multi-stage screening, jet milling, and surface modification to achieve a precise particle size distribution. Additionally, safety and environmental protection costs are extremely high; the risk of fluorine gas leakage necessitates comprehensive containment, scrubbing, and monitoring systems. Investment in compliant production facilities often reaches tens of millions of US dollars, while expenses for waste gas treatment (specifically, the absorption of fluoride-containing tail gas) and solid waste disposal also constitute a significant proportion of costs. Collectively, these factors establish high technological barriers and stringent entry thresholds for the production of fluorinated graphite; consequently, only a select few enterprises globally possess the capability for large-scale production.

This report is a detailed and comprehensive analysis for global Carbon Fluoride market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some

of the selected leaders for the year 2025, are provided.

Key Features:

Global Carbon Fluoride market size and forecasts, in consumption value (\$ Million), sales quantity (K MT), and average selling prices (USD/MT), 2021-2032

Global Carbon Fluoride market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (K MT), and average selling prices (USD/MT), 2021-2032

Global Carbon Fluoride market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (K MT), and average selling prices (USD/MT), 2021-2032

Global Carbon Fluoride market shares of main players, shipments in revenue (\$ Million), sales quantity (K MT), and ASP (USD/MT), 2021-2026

The Primary Objectives in This Report Are:

- To determine the size of the total market opportunity of global and key countries

- To assess the growth potential for Carbon Fluoride

- To forecast future growth in each product and end-use market

- To assess competitive factors affecting the marketplace

This report profiles key players in the global Carbon Fluoride market based on the following parameters - company overview, sales quantity, revenue, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Daikin Industries (JP), Central Glass (JP), Zhuoxi Fluorination (CN), Chongshan Optoelectronic (CN), Xianfeng Nano (CN), Zhongke Xifu (CN), etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Market Segmentation

Carbon Fluoride market is split by Type and by Application. For the period 2021-2032, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Type

Nanoscale

Microscale

Market segment by Fluorine-to-Carbon Ratio

Low Fluorination Degree ($x=0.5\text{?}0.67$)

Medium Fluorination Degree ($x=0.67\text{?}0.88$)

High Fluorination Degree ($x\text{?}0.88\text{?}1.0$)

Market segment by Production Process

High-Temperature Direct Fluorination Method

Catalytic Fluorination Method

Electrochemical Method

Solid-Phase Method

Market segment by Application

Lithium-ion Battery Materials

Lubricant Additives

Nuclear Reactor Neutron Moderators

Others

Major players covered

Daikin Industries (JP)

Central Glass (JP)

Zhuoxi Fluorination (CN)

Chongshan Optoelectronic (CN)

Xianfeng Nano (CN)

Zhongke Xifu (CN)

Market segment by region, regional analysis covers

North America (United States, Canada, and Mexico)

Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)

Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)

South America (Brazil, Argentina, Colombia, and Rest of South America)

Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

The content of the study subjects, includes a total of 15 chapters:

Chapter 1, to describe Carbon Fluoride product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Carbon Fluoride, with price, sales quantity, revenue, and global market share of Carbon Fluoride from 2021 to 2026.

Chapter 3, the Carbon Fluoride competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Carbon Fluoride breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2021 to 2032.

Chapter 5 and 6, to segment the sales by Type and by Application, with sales market share and growth rate by Type, by Application, from 2021 to 2032.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value, and market share for key countries in the world, from 2021 to 2026. and Carbon Fluoride market forecast, by regions, by Type, and by Application, with sales and revenue, from 2027 to 2032.

Chapter 12, market dynamics, drivers, restraints, trends, and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of Carbon Fluoride.

Chapter 14 and 15, to describe Carbon Fluoride sales channel, distributors, customers, research findings and conclusion.

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