

Global Carbon Fluoride Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Carbon Fluoride market size is expected to reach \$ 875 million by 2032, rising at a market growth of 5.7% CAGR during the forecast period (2026-2032).

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 studies the global Carbon Fluoride production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Carbon Fluoride and provides market size (US\$ million) and Year-over-Year (YoY) Growth, considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of Carbon Fluoride that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Carbon Fluoride total production and demand, 2021-2032, (K MT)

Global Carbon Fluoride total production value, 2021-2032, (USD Million)

Global Carbon Fluoride production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K MT), (based on production site)

Global Carbon Fluoride consumption by region & country, CAGR, 2021-2032 & (K MT)

U.S. VS China: Carbon Fluoride domestic production, consumption, key domestic manufacturers and share

Global Carbon Fluoride production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K MT)

Global Carbon Fluoride production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K MT)

Global Carbon Fluoride production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K MT)

This report profiles key players in the global Carbon Fluoride market based on the following parameters - company overview, production, value, 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.

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World Carbon Fluoride market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (K MT) and average price (USD/MT) by manufacturer, by Type, and by Application. Data is given for the years 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

Global Carbon Fluoride Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Carbon Fluoride Market, Segmentation by Type:

Nanoscale

Microscale

Global Carbon Fluoride Market, Segmentation 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 ($x\text{?}0.88\text{?}1.0$)

Global Carbon Fluoride Market, Segmentation by Production Process:

High-Temperature Direct Fluorination Method

Catalytic Fluorination Method

Electrochemical Method

Solid-Phase Method

Global Carbon Fluoride Market, Segmentation by Application:

Lithium-ion Battery Materials

Lubricant Additives

Nuclear Reactor Neutron Moderators

Others

Companies Profiled:

Daikin Industries (JP)

Central Glass (JP)

Zhuoxi Fluorination (CN)

Chongshan Optoelectronic (CN)

Xianfeng Nano (CN)

Zhongke Xifu (CN)

Key Questions Answered:

1. How big is the global Carbon Fluoride market?
2. What is the demand of the global Carbon Fluoride market?
3. What is the year over year growth of the global Carbon Fluoride market?
4. What is the production and production value of the global Carbon Fluoride market?
5. Who are the key producers in the global Carbon Fluoride market?
6. What are the growth factors driving the market demand?

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