

# Global Fluorine-based Lubricating Grease Supply, Demand and Key Producers, 2026-2032

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## Abstracts

The global Fluorine-based Lubricating Grease market size is expected to reach \$ 1512 million by 2032, rising at a market growth of 7.1% CAGR during the forecast period (2026-2032).

Global sales of fluorine-based lubricating greases reached 2,977 tons in 2025, with an average price of \$301/kg.

Fluorine-containing synthetic lubricating oil is referred to as fluorine oil. It is a general term for lubricating oils with compounds containing fluorine atoms in the molecule as the base oil. Fluorine oil has high density, stable chemical properties, good flame resistance, chemical resistance, oxidation resistance, load resistance and lubricity. It is a synthetic lubricating oil with multiple uses. Fluorine oil base oils are usually fluorocarbon compounds, fluorinated polyethers, fluorinated polysiloxanes, fluorinated esters, etc.

The core raw materials for fluorine-based lubricating greases include perfluoropolyether (PFPE) base oil, polytetrafluoroethylene (PTFE) thickener or fluorinated polymers, and various functional additives (antioxidants, rust inhibitors, extreme pressure agents, etc.). PFPE base oil is the most expensive and critical component, requiring complex processes such as hexafluoropropylene (HFP) photo-oxidative polymerization or perfluorocyclic ether ring-opening polymerization, demanding extremely high purity of raw materials, reaction conditions, and separation technology. Thickeners typically use PTFE micropowder or special fluorinated urea compounds to ensure structural stability over a wide temperature range.

This product category is a typical technology-intensive, high-value-added product,

exhibiting a dual characteristic in its cost structure: high raw material costs and even higher manufacturing costs. The procurement cost of PFPE base oil and fluorinated monomers usually accounts for 40-60% of the total cost. However, due to the highly concentrated fluorochemical industry chain (only a few companies globally possess large-scale production capabilities) and the energy-intensive processes involved in synthesis, such as high-temperature, high-pressure, distillation, and purification, production and manufacturing costs (including equipment depreciation, energy consumption, and labor) can reach 30-40%. Furthermore, the significant costs of customized R&D, certification testing, and quality control for high-end applications such as aerospace and semiconductors further increase the overall cost. In contrast, the raw material cost of traditional lithium-based greases typically accounts for over 70%, while the technological premium of fluorinated greases results in significantly higher gross margins than ordinary greases, but this also limits their large-scale penetration in cost-sensitive industrial sectors.

This report studies the global Fluorine-based Lubricating Grease production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Fluorine-based Lubricating Grease 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 Fluorine-based Lubricating Grease that contribute to its increasing demand across many markets.

### **Highlights and key features of the study**

Global Fluorine-based Lubricating Grease total production and demand, 2021-2032, (Tons)

Global Fluorine-based Lubricating Grease total production value, 2021-2032, (USD Million)

Global Fluorine-based Lubricating Grease production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Tons), (based on production site)

Global Fluorine-based Lubricating Grease consumption by region & country, CAGR, 2021-2032 & (Tons)

U.S. VS China: Fluorine-based Lubricating Grease domestic production, consumption,

key domestic manufacturers and share

Global Fluorine-based Lubricating Grease production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Tons)

Global Fluorine-based Lubricating Grease production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Tons)

Global Fluorine-based Lubricating Grease production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Tons)

This report profiles key players in the global Fluorine-based Lubricating Grease 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 Syensqo, Kluber, Condat, DuPont, Chemours, DuPont, Nye Lubricants, Shenzhen Capchem Technology, Hunan Youse Chenzhou Fluorine Chemical, Sinopec, 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 Fluorine-based Lubricating Grease market

### **Detailed Segmentation:**

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (Tons) and average price (US\$/Ton) 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 Fluorine-based Lubricating Grease Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

#### Global Fluorine-based Lubricating Grease Market, Segmentation by Type:

Low Temperature Type

High Temperature Type

#### Global Fluorine-based Lubricating Grease Market, Segmentation by Base Oils:

PFPE-K

PFPE-Z

PFPE-Y

PFPE-M

PFPE-D

#### Global Fluorine-based Lubricating Grease Market, Segmentation by Chemical Composition:

Perfluorinated Greases

Partially Fluorinated Greases

## Fluorosilicone Greases

### Global Fluorine-based Lubricating Grease Market, Segmentation by Application:

Aerospace

Automobile

Electronics

Chemicals

Others

### Companies Profiled:

Syensqo

Kluber

Condat

DuPont

Chemours

DuPont

Nye Lubricants

Shenzhen Capchem Technology

Hunan Youse Chenzhou Fluorine Chemical

Sinopec

Daikin Industries

ECLI Products

Carl Bechem

IKV Lubricants

**Key Questions Answered:**

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

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