

# Global Fluorine-Based Grease for Machinery Industry Supply, Demand and Key Producers, 2026-2032

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## Abstracts

The global Fluorine-Based Grease for Machinery Industry market size is expected to reach \$ 134 million by 2032, rising at a market growth of 4.8% CAGR during the forecast period (2026-2032).

Global sales of fluorine-based grease for machinery industry reached 328 tons in 2025, with an average price of US\$281/kg.

Fluorine-based grease for machinery industry is a high-performance industrial grease made with perfluoropolyether (PFPE), fluorosilicone oil, or partially fluorinated synthetic oil as base oil, and thickeners such as polytetrafluoroethylene (PTFE), calcium sulfonate, or polyurea. Compared with aerospace and automotive grade products, fluorine-based grease for machinery industry maintains a wide temperature range (-30? to 260?), chemical inertness, and extremely long service life, while being cost-optimized for the harsh operating conditions of industrial equipment (heavy load, corrosion, dust, moisture). It is mainly used for long-term maintenance-free lubrication of critical industrial equipment, solving the failure problem of traditional mineral oil-based greases in extreme environments such as high temperature, corrosion, and radiation.

The raw material system of fluorinated greases uses perfluoroolefins as the core monomers, mainly including hexafluoropropylene (HFP) and tetrafluoroethylene (TFE), which are converted into perfluoropolyether base oils through photo-oxidation or anionic polymerization. The thickener uses high-purity polytetrafluoroethylene (PTFE) micropowder (typically

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