

Global Automotive Dry Film Lubricant Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Automotive Dry Film Lubricant market size is expected to reach \$ 217 million by 2032, rising at a market growth of 8.0% CAGR during the forecast period (2026-2032).

In 2025, global Automotive Dry Film Lubricant production reached approximately 684 tons, with an average global market price of around \$168 per kilogram. In 2025, the global 's total production capacity of Automotive Dry Film Lubricant reached 865 tons. The industry average gross profit margin of this product reached 29%.Automotive Dry Film Lubricants are solid coatings formed from lubricating particles like PTFE, molybdenum disulfide, or graphite, suspended in a binder and solvent system . They are applied to components and dry to form a thin, solid film that reduces friction, resists wear, and does not attract dust . In automobiles, they are critical for parts like brake caliper pins, seat adjusters, door locks, and various engine components, offering performance in high-temperature and high-load conditions where liquid lubricants are unsuitable .

The automotive dry film lubricant industry chain consists of three main parts: upstream raw materials, midstream formulation and manufacturing, and downstream application markets. The upstream primarily includes suppliers of basic materials such as PTFE (polytetrafluoroethylene), MoS₂ (molybdenum disulfide), graphite, resin matrices, solvents, and functional additives. This stage determines the product's wear resistance, coefficient of friction, and temperature resistance. The midstream comprises manufacturers of dry film lubricants and dry film coatings, who process raw materials into solid lubricant film products suitable for different operating conditions through formulation design, dispersion technology, and spray/dip/curing processes. The downstream mainly applies to automotive component systems, including door lock

mechanisms, seat rails, wiper systems, accelerator pedals, electronic actuators, precision transmission components, and electric drive systems for new energy vehicles, replacing traditional greases to achieve performance goals such as maintenance-free operation, low noise, low friction, and long lifespan. Ultimately, customers are concentrated in OEMs and Tier 1 suppliers.

The automotive dry film lubricant industry is showing a steady growth trend and is moving towards high-end functionalization. The core driving forces come from three major directions: automotive lightweighting, electrification, and precision. With the rapid development of electric vehicles, traditional greases are increasingly failing to meet demands in terms of high and low temperature stability, cleanliness, and long-term reliability, leading to a continuous increase in the penetration rate of dry film lubricants in electric drive systems, smart cockpit mechanisms, and precision actuators. Simultaneously, the increasing NVH performance requirements of vehicles are driving the replacement of traditional lubrication methods with low-friction coating materials. Furthermore, the development of automotive components towards ?maintenance-free design? and ?lifetime lubrication? is expanding the application of dry film lubricants in areas such as seat systems and door mechanisms. In the future, the industry will see trends of material system upgrades, process integration, and supply chain centralization, with the overall market expected to maintain medium-to-high-speed growth driven by new energy vehicles and high-end automotive components.

This report studies the global Automotive Dry Film Lubricant production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Automotive Dry Film Lubricant 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 Automotive Dry Film Lubricant that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Automotive Dry Film Lubricant total production and demand, 2021-2032, (Tons)
Global Automotive Dry Film Lubricant total production value, 2021-2032, (USD Million)
Global Automotive Dry Film Lubricant production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Tons), (based on production site)
Global Automotive Dry Film Lubricant consumption by region & country, CAGR, 2021-2032 & (Tons)

U.S. VS China: Automotive Dry Film Lubricant domestic production, consumption, key domestic manufacturers and share

Global Automotive Dry Film Lubricant production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Tons)

Global Automotive Dry Film Lubricant production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Tons)

Global Automotive Dry Film Lubricant production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Tons)

This report profiles key players in the global Automotive Dry Film Lubricant 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 Chemours, Henkel, Carl Bechem, Freudenberg Group, Sherwin-Williams, Micro Surface Corporation, Sumico Lubricant, Sun Coating Company, Daizo Corporation, SamSan SLC, 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 Automotive Dry Film Lubricant market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (Tons) and average price (US\$/kg) 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 Automotive Dry Film Lubricant Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Automotive Dry Film Lubricant Market, Segmentation by Type:

PTFE-based Dry Film Lubricant

Molybdenum Disulfide-based Dry Film Lubricant

Others

Global Automotive Dry Film Lubricant Market, Segmentation by Chemical Systems:

Resin-based Dry Film Lubricants

Inorganic Ceramic-based Coatings

Fluoropolymer-based Coatings

Global Automotive Dry Film Lubricant Market, Segmentation by Processes:

Spray Coating

Dip Coating

Roller Coating

Cure-enhanced Coating

Global Automotive Dry Film Lubricant Market, Segmentation by Application:

Powertrain

Brake System

Steering System

Electronic Components

Others

Companies Profiled:

Chemours

Henkel

Carl Bechem

Freudenberg Group

Sherwin-Williams

Micro Surface Corporation

Sumico Lubricant

Sun Coating Company

Daizo Corporation

SamSan SLC

Curtiss-Wright

Indestructible Paint

Yale Synthlube Industries

Sumico Lubricant

Precise Industrial Coatings

Zaibang Runhua

Key Questions Answered:

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

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