

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

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Abstracts

The global Solid Film Lubricant market size is expected to reach \$ 567 million by 2032, rising at a market growth of 6.3% CAGR during the forecast period (2026-2032).

In 2025, global solid film lubricant production reached approximately 3,050 tons, with an average global market price of around US\$120 per kilogram. In 2025, the global 's total production capacity of solid film lubricant reached 3,961 tons. The industry average gross profit margin of this product reached 25%.

Solid film lubricant refers to an ultra-thin lubricating film layer formed on the surface of metal or composite materials through methods such as spraying, dip coating, sintering, or deposition, using solid lubricating materials as the main functional phase. It is a functional coating system used to provide low friction and wear resistance in oil-free or extreme environments. Its core function is to replace traditional lubricating greases under boundary lubrication or dry friction conditions. By forming a stable solid lubrication interface, it significantly reduces the coefficient of friction, reduces wear, and extends the life of mechanical components. It is widely used in aerospace, military equipment, automotive parts, shipbuilding, precision instruments, and high-temperature industrial equipment.

The solid film lubricant industry chain can be divided into three main segments: upstream raw materials and basic chemicals, midstream formulation R&D and coating manufacturing, and downstream application markets. The upstream segment mainly includes solid lubricant functional materials and basic carrier systems, such as molybdenum disulfide (MoS₂), graphite, polytetrafluoroethylene (PTFE), hexagonal boron nitride (h-BN), tungsten disulfide (WS₂), and other solid lubricant powder materials, as well as resin matrices, solvent systems, and surfactant additives. This

segment is dominated by chemical material companies and specialty powder material manufacturers. The midstream segment focuses on core technologies, including solid lubrication... Formulation development, coating process design, and industrial-scale production encompass processes such as spraying, dip coating, sintering, and PVD/CVD deposition. Product manufacturing and performance verification are completed by professional surface engineering companies, industrial coating enterprises, and aerospace/military certified suppliers. Downstream applications are widely used in aerospace, military equipment, automotive powertrain systems, marine engineering, semiconductor manufacturing equipment, precision bearings, and high-temperature industrial machinery. High-end applications have extremely high requirements for lubrication performance, temperature resistance, and lifespan, while industrial equipment and automotive sectors focus more on cost and performance for mass production. This creates a high-tech-density industrial structure driven by materials, process barriers, and high-end applications.

With the increasing demands for reliability under extreme operating conditions from aerospace, military, high-end manufacturing, and new energy equipment, the solid film lubricant industry is in a steady growth phase. Its core driving forces come from three aspects: First, the development of aerospace and space technology continues to increase the demand for vacuum lubrication; second, high-end manufacturing is increasing its demand for oil-free, low-pollution lubrication solutions; and third, new energy vehicles and electric drive systems are placing new requirements on high-temperature, low-friction coatings. In the future, the industry will gradually evolve from traditional MoS₂/graphite coatings to nanocomposite lubricating materials, and deeply integrate with surface engineering technology to upgrade to 'multifunctional surface engineering lubrication systems.'

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

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

Highlights and key features of the study

Global Solid Film Lubricant total production and demand, 2021-2032, (Tons)

Global Solid Film Lubricant total production value, 2021-2032, (USD Million)

Global Solid Film Lubricant production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Tons), (based on production site)

Global Solid Film Lubricant consumption by region & country, CAGR, 2021-2032 & (Tons)

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

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

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

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

This report profiles key players in the global Solid 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 DuPont, Henkel, Chemours, Carl Bechem, Kluber, Curtiss-Wright, Sumico Lubricant, Yale Synthlube Industries, Freudenberg Group, Fuchs, 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 Solid 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 Solid Film Lubricant Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Solid Film Lubricant Market, Segmentation by Type:

Molybdenum Disulfide-based Dry Film Lubricant

PTFE-based Dry Film Lubricant

Others

Global Solid Film Lubricant Market, Segmentation by Coating Formation Processes:

Physical Vapor Deposition/Chemical Vapor Deposition Coatings

Thermal Spray Coatings

Others

Global Solid Film Lubricant Market, Segmentation by Application:

Automotive

Machinery Manufacturing

Aerospace

Others

Companies Profiled:

DuPont

Henkel

Chemours

Carl Bechem

Kluber

Curtiss-Wright

Sumico Lubricant

Yale Synthlube Industries

Freudenberg Group

Fuchs

CRC Industries

Indestructible Paint

Sherwin-Williams

Anoplate

Shenzhen Eubo New Materials Technology Co., Ltd.

LUBTS Co., Ltd

Key Questions Answered:

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

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