

Global PAG-Based Lubricants Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global PAG-Based Lubricants market size is expected to reach \$ 3621 million by 2032, rising at a market growth of 4.5% CAGR during the forecast period (2026-2032). PAG-Based Lubricants are high-performance synthetic lubricants formulated with polyalkylene glycol (PAG) base oils and functional additive packages such as antioxidants, anti-wear agents, corrosion inhibitors, and defoamers. They offer a high viscosity index, excellent low-temperature fluidity, strong thermo-oxidative stability, and favorable compatibility in systems involving refrigerants, gases, and compression media, and are widely used in automotive and industrial HVAC/heat-pump compressors, refrigeration and cold-chain equipment, industrial gear and hydraulic systems, and selected high-temperature or high-cleanliness applications. Upstream raw materials primarily include EO/PO monomers, initiators and catalyst systems, additive packages, and packaging materials, while downstream customers consist of automotive OEMs and component suppliers (including EV thermal-management chains), compressor and refrigeration OEMs, industrial equipment manufacturers, lubricant brand owners and formulators, and large industrial MRO buyers. Based on major PAG base-oil supply capacity and industry operating rates, global effective capacity for PAG-based lubricants in 2025 is estimated at approximately 480 kt per year, with actual shipments of about 399 kt, an average ex-works price of roughly USD 6,430 per ton, and an industry gross margin of around 30%-40%. Ongoing growth is supported by increasing EV and heat-pump adoption, higher efficiency and reliability requirements in industrial equipment, and the evolution of refrigeration systems toward higher performance and stricter operating standards.

This report studies the global PAG-Based Lubricants production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for PAG-Based Lubricants 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 PAG-Based Lubricants that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global PAG-Based Lubricants total production and demand, 2021-2032, (Kilotons)

Global PAG-Based Lubricants total production value, 2021-2032, (USD Million)

Global PAG-Based Lubricants production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Kilotons), (based on production site)

Global PAG-Based Lubricants consumption by region & country, CAGR, 2021-2032 & (Kilotons)

U.S. VS China: PAG-Based Lubricants domestic production, consumption, key domestic manufacturers and share

Global PAG-Based Lubricants production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Kilotons)

Global PAG-Based Lubricants production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Kilotons)

Global PAG-Based Lubricants production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Kilotons)

This report profiles key players in the global PAG-Based Lubricants 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 Exxon Mobil, DuPont, Dow, Idemitsu Group, BASF, FUCHS, Shrieve, Shell, Petronas, Phillips 66 Lubricants, 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 PAG-Based Lubricants market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (Kilotons) 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 PAG-Based Lubricants Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global PAG-Based Lubricants Market, Segmentation by Type:

PAG 46

PAG 68

PAG 100

PAG 150

Others

Global PAG-Based Lubricants Market, Segmentation by Water Interaction:

Water-Soluble

Water-Insensitive

Global PAG-Based Lubricants Market, Segmentation by End-use:

Compressor Oils

Gear Oils

Others

Global PAG-Based Lubricants Market, Segmentation by Application:

Industrial

Automotive

Others

Companies Profiled:

Exxon Mobil

DuPont

Dow

Idemitsu Group

BASF

FUCHS

Shrieve

Shell

Petronas

Phillips 66 Lubricants

TecLub

Chevron

Sanyo Chemical

Triboscience & Engineering

Petro-Canada Lubricants

CITGO Lubricants

Key Questions Answered:

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

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