

Global PAG-Based Lubricants Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

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Abstracts

According to our (Global Info Research) latest study, the global PAG-Based Lubricants market size was valued at US\$ 2642 million in 2025 and is forecast to a readjusted size of US\$ 3621 million by 2032 with a CAGR of 4.5% during review period.

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 is a detailed and comprehensive analysis for global PAG-Based Lubricants market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

Key Features:

Global PAG-Based Lubricants market size and forecasts, in consumption value (\$ Million), sales quantity (Kilotons), and average selling prices (US\$/Ton), 2021-2032

Global PAG-Based Lubricants market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (Kilotons), and average selling prices (US\$/Ton), 2021-2032

Global PAG-Based Lubricants market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (Kilotons), and average selling prices (US\$/Ton), 2021-2032

Global PAG-Based Lubricants market shares of main players, shipments in revenue (\$ Million), sales quantity (Kilotons), and ASP (US\$/Ton), 2021-2026

The Primary Objectives in This Report Are:

To determine the size of the total market opportunity of global and key countries

To assess the growth potential for PAG-Based Lubricants

To forecast future growth in each product and end-use market

To assess competitive factors affecting the marketplace

This report profiles key players in the global PAG-Based Lubricants market based on the following parameters - company overview, sales quantity, revenue, 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.

Market Segmentation

PAG-Based Lubricants market is split by Type and by Application. For the period 2021-2032, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Type

PAG 46

PAG 68

PAG 100

PAG 150

Others

Market segment by Water Interaction

Water-Soluble

Water-Insensitive

Market segment by End-use

Compressor Oils

Gear Oils

Others

Market segment by Application

Industrial

Automotive

Others

Major players covered

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

Market segment by region, regional analysis covers

North America (United States, Canada, and Mexico)

Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)

Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)

South America (Brazil, Argentina, Colombia, and Rest of South America)

Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

The content of the study subjects, includes a total of 15 chapters:

Chapter 1, to describe PAG-Based Lubricants product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of PAG-Based Lubricants, with price, sales quantity, revenue, and global market share of PAG-Based Lubricants from 2021 to 2026.

Chapter 3, the PAG-Based Lubricants competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the PAG-Based Lubricants breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2021 to 2032.

Chapter 5 and 6, to segment the sales by Type and by Application, with sales market share and growth rate by Type, by Application, from 2021 to 2032.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value, and market share for key countries in the world, from 2021 to 2026. and PAG-Based Lubricants market forecast, by regions, by Type, and by Application, with sales and revenue, from 2027 to 2032.

Chapter 12, market dynamics, drivers, restraints, trends, and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of PAG-Based Lubricants.

Chapter 14 and 15, to describe PAG-Based Lubricants sales channel, distributors, customers, research findings and conclusion.

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