

Global PAG-Based Lubricants Market Growth 2026-2032

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Abstracts

The global PAG-Based Lubricants market size is predicted to grow from US\$ 2512 million in 2025 to US\$ 3499 million in 2032; it is expected to grow at a CAGR of 4.8% from 2026 to 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.

United States market for PAG-Based Lubricants is estimated to increase from US\$

million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

China market for PAG-Based Lubricants is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

Europe market for PAG-Based Lubricants is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

Global key PAG-Based Lubricants players cover Exxon Mobil, DuPont, Dow, Idemitsu Group, BASF, etc. In terms of revenue, the global two largest companies occupied for a share nearly % in 2025.

LP Information, Inc. (LPI) ' newest research report, the "PAG-Based Lubricants Industry Forecast" looks at past sales and reviews total world PAG-Based Lubricants sales in 2025, providing a comprehensive analysis by region and market sector of projected PAG-Based Lubricants sales for 2026 through 2032. With PAG-Based Lubricants sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world PAG-Based Lubricants industry.

This Insight Report provides a comprehensive analysis of the global PAG-Based Lubricants landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyzes the strategies of leading global companies with a focus on PAG-Based Lubricants portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global PAG-Based Lubricants market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for PAG-Based Lubricants and breaks down the forecast by Type, by Application, geography, and market size to highlight emerging pockets of opportunity. With a transparent methodology based on hundreds of bottom-up qualitative and quantitative market inputs, this study forecast offers a highly nuanced view of the current state and future trajectory in the global PAG-Based Lubricants.

This report presents a comprehensive overview, market shares, and growth opportunities of PAG-Based Lubricants market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

PAG 46

PAG 68

PAG 100

PAG 150

Others

Segmentation by Water Interaction:

Water-Soluble

Water-Insensitive

Segmentation by End-use:

Compressor Oils

Gear Oils

Others

Segmentation by Application:

Industrial

Automotive

Others

This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

APAC

China

Japan

Korea

Southeast Asia

India

Australia

Europe

Germany

France

UK

Italy

Russia

Middle East & Africa

Egypt

South Africa

Israel

Turkey

GCC Countries

The below companies that are profiled have been selected based on inputs gathered from primary experts and analysing the company's coverage, product portfolio, its market penetration.

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 Addressed in this Report

What is the 10-year outlook for the global PAG-Based Lubricants market?

What factors are driving PAG-Based Lubricants market growth, globally and by region?

Which technologies are poised for the fastest growth by market and region?

How do PAG-Based Lubricants market opportunities vary by end market size?

How does PAG-Based Lubricants break out by Type, by Application?

Contents

1 SCOPE OF THE REPORT

- 1.1 Market Introduction
- 1.2 Years Considered
- 1.3 Research Objectives
- 1.4 Market Research Methodology
- 1.5 Research Process and Data Source
- 1.6 Economic Indicators
- 1.7 Currency Considered
- 1.8 Market Estimation Caveats

2 EXECUTIVE SUMMARY

2.1 World Market Overview

- 2.1.1 Global PAG-Based Lubricants Annual Sales 2021-2032
- 2.1.2 World Current & Future Analysis for PAG-Based Lubricants by Geographic Region, 2021, 2025 & 2032
- 2.1.3 World Current & Future Analysis for PAG-Based Lubricants by Country/Region, 2021, 2025 & 2032

2.2 PAG-Based Lubricants Segment by Type

- 2.2.1 PAG
- 2.2.2 PAG
- 2.2.3 PAG
- 2.2.4 PAG
- 2.2.5 Others
- 2.2.6 PAG-Based Lubricants Sales by Type
 - 2.2.6.1 Global PAG-Based Lubricants Sales Market Share by Type (2021-2026)
 - 2.2.6.2 Global PAG-Based Lubricants Revenue and Market Share by Type (2021-2026)
 - 2.2.6.3 Global PAG-Based Lubricants Sale Price by Type (2021-2026)

2.3 PAG-Based Lubricants Segment by Water Interaction

- 2.3.1 Water-Soluble
- 2.3.2 Water-Insensitive
- 2.3.3 PAG-Based Lubricants Sales by Water Interaction
 - 2.3.3.1 Global PAG-Based Lubricants Sales Market Share by Water Interaction (2021-2026)
 - 2.3.3.2 Global PAG-Based Lubricants Revenue and Market Share by Water

Interaction (2021-2026)

2.3.3.3 Global PAG-Based Lubricants Sale Price by Water Interaction (2021-2026)

2.4 PAG-Based Lubricants Segment by End-use

2.4.1 Compressor Oils

2.4.2 Gear Oils

2.4.3 Others

2.4.4 PAG-Based Lubricants Sales by End-use

2.4.4.1 Global PAG-Based Lubricants Sales Market Share by End-use (2021-2026)

2.4.4.2 Global PAG-Based Lubricants Revenue and Market Share by End-use (2021-2026)

2.4.4.3 Global PAG-Based Lubricants Sale Price by End-use (2021-2026)

2.5 PAG-Based Lubricants Segment by Application

2.5.1 Industrial

2.5.2 Automotive

2.5.3 Others

2.5.4 PAG-Based Lubricants Sales by Application

2.5.4.1 Global PAG-Based Lubricants Sale Market Share by Application (2021-2026)

2.5.4.2 Global PAG-Based Lubricants Revenue and Market Share by Application (2021-2026)

2.5.4.3 Global PAG-Based Lubricants Sale Price by Application (2021-2026)

3 GLOBAL BY COMPANY

3.1 Global PAG-Based Lubricants Breakdown Data by Company

3.1.1 Global PAG-Based Lubricants Annual Sales by Company (2021-2026)

3.1.2 Global PAG-Based Lubricants Sales Market Share by Company (2021-2026)

3.2 Global PAG-Based Lubricants Annual Revenue by Company (2021-2026)

3.2.1 Global PAG-Based Lubricants Revenue by Company (2021-2026)

3.2.2 Global PAG-Based Lubricants Revenue Market Share by Company (2021-2026)

3.3 Global PAG-Based Lubricants Sale Price by Company

3.4 Key Manufacturers PAG-Based Lubricants Producing Area Distribution, Sales Area, Product Type

3.4.1 Key Manufacturers PAG-Based Lubricants Product Location Distribution

3.4.2 Players PAG-Based Lubricants Products Offered

3.5 Market Concentration Rate Analysis

3.5.1 Competition Landscape Analysis

3.5.2 Concentration Ratio (CR3, CR5 and CR10) & (2024-2026)

3.6 New Products and Potential Entrants

3.7 Market M&A Activity & Strategy

4 WORLD HISTORIC REVIEW FOR PAG-BASED LUBRICANTS BY GEOGRAPHIC REGION

4.1 World Historic PAG-Based Lubricants Market Size by Geographic Region (2021-2026)

4.1.1 Global PAG-Based Lubricants Annual Sales by Geographic Region (2021-2026)

4.1.2 Global PAG-Based Lubricants Annual Revenue by Geographic Region (2021-2026)

4.2 World Historic PAG-Based Lubricants Market Size by Country/Region (2021-2026)

4.2.1 Global PAG-Based Lubricants Annual Sales by Country/Region (2021-2026)

4.2.2 Global PAG-Based Lubricants Annual Revenue by Country/Region (2021-2026)

4.3 Americas PAG-Based Lubricants Sales Growth

4.4 APAC PAG-Based Lubricants Sales Growth

4.5 Europe PAG-Based Lubricants Sales Growth

4.6 Middle East & Africa PAG-Based Lubricants Sales Growth

5 AMERICAS

5.1 Americas PAG-Based Lubricants Sales by Country

5.1.1 Americas PAG-Based Lubricants Sales by Country (2021-2026)

5.1.2 Americas PAG-Based Lubricants Revenue by Country (2021-2026)

5.2 Americas PAG-Based Lubricants Sales by Type (2021-2026)

5.3 Americas PAG-Based Lubricants Sales by Application (2021-2026)

5.4 United States

5.5 Canada

5.6 Mexico

5.7 Brazil

6 APAC

6.1 APAC PAG-Based Lubricants Sales by Region

6.1.1 APAC PAG-Based Lubricants Sales by Region (2021-2026)

6.1.2 APAC PAG-Based Lubricants Revenue by Region (2021-2026)

6.2 APAC PAG-Based Lubricants Sales by Type (2021-2026)

6.3 APAC PAG-Based Lubricants Sales by Application (2021-2026)

6.4 China

6.5 Japan

6.6 South Korea

- 6.7 Southeast Asia
- 6.8 India
- 6.9 Australia
- 6.10 China Taiwan

7 EUROPE

- 7.1 Europe PAG-Based Lubricants by Country
 - 7.1.1 Europe PAG-Based Lubricants Sales by Country (2021-2026)
 - 7.1.2 Europe PAG-Based Lubricants Revenue by Country (2021-2026)
- 7.2 Europe PAG-Based Lubricants Sales by Type (2021-2026)
- 7.3 Europe PAG-Based Lubricants Sales by Application (2021-2026)
- 7.4 Germany
- 7.5 France
- 7.6 UK
- 7.7 Italy
- 7.8 Russia

8 MIDDLE EAST & AFRICA

- 8.1 Middle East & Africa PAG-Based Lubricants by Country
 - 8.1.1 Middle East & Africa PAG-Based Lubricants Sales by Country (2021-2026)
 - 8.1.2 Middle East & Africa PAG-Based Lubricants Revenue by Country (2021-2026)
- 8.2 Middle East & Africa PAG-Based Lubricants Sales by Type (2021-2026)
- 8.3 Middle East & Africa PAG-Based Lubricants Sales by Application (2021-2026)
- 8.4 Egypt
- 8.5 South Africa
- 8.6 Israel
- 8.7 Turkey
- 8.8 GCC Countries

9 MARKET DRIVERS, CHALLENGES AND TRENDS

- 9.1 Market Drivers & Growth Opportunities
- 9.2 Market Challenges & Risks
- 9.3 Industry Trends

10 MANUFACTURING COST STRUCTURE ANALYSIS

- 10.1 Raw Material and Suppliers
- 10.2 Manufacturing Cost Structure Analysis of PAG-Based Lubricants
- 10.3 Manufacturing Process Analysis of PAG-Based Lubricants
- 10.4 Industry Chain Structure of PAG-Based Lubricants

11 MARKETING, DISTRIBUTORS AND CUSTOMER

- 11.1 Sales Channel
 - 11.1.1 Direct Channels
 - 11.1.2 Indirect Channels
- 11.2 PAG-Based Lubricants Distributors
- 11.3 PAG-Based Lubricants Customer

12 WORLD FORECAST REVIEW FOR PAG-BASED LUBRICANTS BY GEOGRAPHIC REGION

- 12.1 Global PAG-Based Lubricants Market Size Forecast by Region
 - 12.1.1 Global PAG-Based Lubricants Forecast by Region (2027-2032)
 - 12.1.2 Global PAG-Based Lubricants Annual Revenue Forecast by Region (2027-2032)
- 12.2 Americas Forecast by Country (2027-2032)
- 12.3 APAC Forecast by Region (2027-2032)
- 12.4 Europe Forecast by Country (2027-2032)
- 12.5 Middle East & Africa Forecast by Country (2027-2032)
- 12.6 Global PAG-Based Lubricants Forecast by Type (2027-2032)
- 12.7 Global PAG-Based Lubricants Forecast by Application (2027-2032)

13 KEY PLAYERS ANALYSIS

- 13.1 Exxon Mobil
 - 13.1.1 Exxon Mobil Company Information
 - 13.1.2 Exxon Mobil PAG-Based Lubricants Product Portfolios and Specifications
 - 13.1.3 Exxon Mobil PAG-Based Lubricants Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.1.4 Exxon Mobil Main Business Overview
 - 13.1.5 Exxon Mobil Latest Developments
- 13.2 DuPont
 - 13.2.1 DuPont Company Information
 - 13.2.2 DuPont PAG-Based Lubricants Product Portfolios and Specifications

13.2.3 DuPont PAG-Based Lubricants Sales, Revenue, Price and Gross Margin
(2021-2026)

13.2.4 DuPont Main Business Overview

13.2.5 DuPont Latest Developments

13.3 Dow

13.3.1 Dow Company Information

13.3.2 Dow PAG-Based Lubricants Product Portfolios and Specifications

13.3.3 Dow PAG-Based Lubricants Sales, Revenue, Price and Gross Margin
(2021-2026)

13.3.4 Dow Main Business Overview

13.3.5 Dow Latest Developments

13.4 Idemitsu Group

13.4.1 Idemitsu Group Company Information

13.4.2 Idemitsu Group PAG-Based Lubricants Product Portfolios and Specifications

13.4.3 Idemitsu Group PAG-Based Lubricants Sales, Revenue, Price and Gross
Margin (2021-2026)

13.4.4 Idemitsu Group Main Business Overview

13.4.5 Idemitsu Group Latest Developments

13.5 BASF

13.5.1 BASF Company Information

13.5.2 BASF PAG-Based Lubricants Product Portfolios and Specifications

13.5.3 BASF PAG-Based Lubricants Sales, Revenue, Price and Gross Margin
(2021-2026)

13.5.4 BASF Main Business Overview

13.5.5 BASF Latest Developments

13.6 FUCHS

13.6.1 FUCHS Company Information

13.6.2 FUCHS PAG-Based Lubricants Product Portfolios and Specifications

13.6.3 FUCHS PAG-Based Lubricants Sales, Revenue, Price and Gross Margin
(2021-2026)

13.6.4 FUCHS Main Business Overview

13.6.5 FUCHS Latest Developments

13.7 Shrieve

13.7.1 Shrieve Company Information

13.7.2 Shrieve PAG-Based Lubricants Product Portfolios and Specifications

13.7.3 Shrieve PAG-Based Lubricants Sales, Revenue, Price and Gross Margin
(2021-2026)

13.7.4 Shrieve Main Business Overview

13.7.5 Shrieve Latest Developments

13.8 Shell

13.8.1 Shell Company Information

13.8.2 Shell PAG-Based Lubricants Product Portfolios and Specifications

13.8.3 Shell PAG-Based Lubricants Sales, Revenue, Price and Gross Margin
(2021-2026)

13.8.4 Shell Main Business Overview

13.8.5 Shell Latest Developments

13.9 Petronas

13.9.1 Petronas Company Information

13.9.2 Petronas PAG-Based Lubricants Product Portfolios and Specifications

13.9.3 Petronas PAG-Based Lubricants Sales, Revenue, Price and Gross Margin
(2021-2026)

13.9.4 Petronas Main Business Overview

13.9.5 Petronas Latest Developments

13.10 Phillips 66 Lubricants

13.10.1 Phillips 66 Lubricants Company Information

13.10.2 Phillips 66 Lubricants PAG-Based Lubricants Product Portfolios and
Specifications

13.10.3 Phillips 66 Lubricants PAG-Based Lubricants Sales, Revenue, Price and
Gross Margin (2021-2026)

13.10.4 Phillips 66 Lubricants Main Business Overview

13.10.5 Phillips 66 Lubricants Latest Developments

13.11 TecLub

13.11.1 TecLub Company Information

13.11.2 TecLub PAG-Based Lubricants Product Portfolios and Specifications

13.11.3 TecLub PAG-Based Lubricants Sales, Revenue, Price and Gross Margin
(2021-2026)

13.11.4 TecLub Main Business Overview

13.11.5 TecLub Latest Developments

13.12 Chevron

13.12.1 Chevron Company Information

13.12.2 Chevron PAG-Based Lubricants Product Portfolios and Specifications

13.12.3 Chevron PAG-Based Lubricants Sales, Revenue, Price and Gross Margin
(2021-2026)

13.12.4 Chevron Main Business Overview

13.12.5 Chevron Latest Developments

13.13 Sanyo Chemical

13.13.1 Sanyo Chemical Company Information

13.13.2 Sanyo Chemical PAG-Based Lubricants Product Portfolios and Specifications

13.13.3 Sanyo Chemical PAG-Based Lubricants Sales, Revenue, Price and Gross Margin (2021-2026)

13.13.4 Sanyo Chemical Main Business Overview

13.13.5 Sanyo Chemical Latest Developments

13.14 Triboscience & Engineering

13.14.1 Triboscience & Engineering Company Information

13.14.2 Triboscience & Engineering PAG-Based Lubricants Product Portfolios and Specifications

13.14.3 Triboscience & Engineering PAG-Based Lubricants Sales, Revenue, Price and Gross Margin (2021-2026)

13.14.4 Triboscience & Engineering Main Business Overview

13.14.5 Triboscience & Engineering Latest Developments

13.15 Petro-Canada Lubricants

13.15.1 Petro-Canada Lubricants Company Information

13.15.2 Petro-Canada Lubricants PAG-Based Lubricants Product Portfolios and Specifications

13.15.3 Petro-Canada Lubricants PAG-Based Lubricants Sales, Revenue, Price and Gross Margin (2021-2026)

13.15.4 Petro-Canada Lubricants Main Business Overview

13.15.5 Petro-Canada Lubricants Latest Developments

13.16 CITGO Lubricants

13.16.1 CITGO Lubricants Company Information

13.16.2 CITGO Lubricants PAG-Based Lubricants Product Portfolios and Specifications

13.16.3 CITGO Lubricants PAG-Based Lubricants Sales, Revenue, Price and Gross Margin (2021-2026)

13.16.4 CITGO Lubricants Main Business Overview

13.16.5 CITGO Lubricants Latest Developments

14 RESEARCH FINDINGS AND CONCLUSION

List Of Tables

LIST OF TABLES

Table 1. PAG-Based Lubricants Annual Sales CAGR by Geographic Region (2021, 2025 & 2032) & (\$ millions)

Table 2. PAG-Based Lubricants Annual Sales CAGR by Country/Region (2021, 2025 & 2032) & (\$ millions)

Table 3. Major Players of PAG 46

Table 4. Major Players of PAG 68

Table 5. Major Players of PAG 100

Table 6. Major Players of PAG 150

Table 7. Major Players of Others

Table 8. Global PAG-Based Lubricants Sales by Type (2021-2026) & (Kilotons)

Table 9. Global PAG-Based Lubricants Sales Market Share by Type (2021-2026)

Table 10. Global PAG-Based Lubricants Revenue by Type (2021-2026) & (\$ million)

Table 11. Global PAG-Based Lubricants Revenue Market Share by Type (2021-2026)

Table 12. Global PAG-Based Lubricants Sale Price by Type (2021-2026) & (US\$/Ton)

Table 13. Major Players of Water-Soluble

Table 14. Major Players of Water-Insensitive

Table 15. Global PAG-Based Lubricants Sales by Water Interaction (2021-2026) & (Kilotons)

Table 16. Global PAG-Based Lubricants Sales Market Share by Water Interaction (2021-2026)

Table 17. Global PAG-Based Lubricants Revenue by Water Interaction (2021-2026) & (\$ million)

Table 18. Global PAG-Based Lubricants Revenue Market Share by Water Interaction (2021-2026)

Table 19. Global PAG-Based Lubricants Sale Price by Water Interaction (2021-2026) & (US\$/Ton)

Table 20. Major Players of Compressor Oils

Table 21. Major Players of Gear Oils

Table 22. Major Players of Others

Table 23. Global PAG-Based Lubricants Sales by End-use (2021-2026) & (Kilotons)

Table 24. Global PAG-Based Lubricants Sales Market Share by End-use (2021-2026)

Table 25. Global PAG-Based Lubricants Revenue by End-use (2021-2026) & (\$ million)

Table 26. Global PAG-Based Lubricants Revenue Market Share by End-use (2021-2026)

Table 27. Global PAG-Based Lubricants Sale Price by End-use (2021-2026) &

(US\$/Ton)

Table 28. Global PAG-Based Lubricants Sale by Application (2021-2026) & (Kilotons)

Table 29. Global PAG-Based Lubricants Sale Market Share by Application (2021-2026)

Table 30. Global PAG-Based Lubricants Revenue by Application (2021-2026) & (\$ million)

Table 31. Global PAG-Based Lubricants Revenue Market Share by Application (2021-2026)

Table 32. Global PAG-Based Lubricants Sale Price by Application (2021-2026) & (US\$/Ton)

Table 33. Global PAG-Based Lubricants Sales by Company (2021-2026) & (Kilotons)

Table 34. Global PAG-Based Lubricants Sales Market Share by Company (2021-2026)

Table 35. Global PAG-Based Lubricants Revenue by Company (2021-2026) & (\$ millions)

Table 36. Global PAG-Based Lubricants Revenue Market Share by Company (2021-2026)

Table 37. Global PAG-Based Lubricants Sale Price by Company (2021-2026) & (US\$/Ton)

Table 38. Key Manufacturers PAG-Based Lubricants Producing Area Distribution and Sales Area

Table 39. Players PAG-Based Lubricants Products Offered

Table 40. PAG-Based Lubricants Concentration Ratio (CR3, CR5 and CR10) & (2024-2026)

Table 41. New Products and Potential Entrants

Table 42. Market M&A Activity & Strategy

Table 43. Global PAG-Based Lubricants Sales by Geographic Region (2021-2026) & (Kilotons)

Table 44. Global PAG-Based Lubricants Sales Market Share Geographic Region (2021-2026)

Table 45. Global PAG-Based Lubricants Revenue by Geographic Region (2021-2026) & (\$ millions)

Table 46. Global PAG-Based Lubricants Revenue Market Share by Geographic Region (2021-2026)

Table 47. Global PAG-Based Lubricants Sales by Country/Region (2021-2026) & (Kilotons)

Table 48. Global PAG-Based Lubricants Sales Market Share by Country/Region (2021-2026)

Table 49. Global PAG-Based Lubricants Revenue by Country/Region (2021-2026) & (\$ millions)

Table 50. Global PAG-Based Lubricants Revenue Market Share by Country/Region

(2021-2026)

Table 51. Americas PAG-Based Lubricants Sales by Country (2021-2026) & (Kilotons)

Table 52. Americas PAG-Based Lubricants Sales Market Share by Country (2021-2026)

Table 53. Americas PAG-Based Lubricants Revenue by Country (2021-2026) & (\$ millions)

Table 54. Americas PAG-Based Lubricants Sales by Type (2021-2026) & (Kilotons)

Table 55. Americas PAG-Based Lubricants Sales by Application (2021-2026) & (Kilotons)

Table 56. APAC PAG-Based Lubricants Sales by Region (2021-2026) & (Kilotons)

Table 57. APAC PAG-Based Lubricants Sales Market Share by Region (2021-2026)

Table 58. APAC PAG-Based Lubricants Revenue by Region (2021-2026) & (\$ millions)

Table 59. APAC PAG-Based Lubricants Sales by Type (2021-2026) & (Kilotons)

Table 60. APAC PAG-Based Lubricants Sales by Application (2021-2026) & (Kilotons)

Table 61. Europe PAG-Based Lubricants Sales by Country (2021-2026) & (Kilotons)

Table 62. Europe PAG-Based Lubricants Revenue by Country (2021-2026) & (\$ millions)

Table 63. Europe PAG-Based Lubricants Sales by Type (2021-2026) & (Kilotons)

Table 64. Europe PAG-Based Lubricants Sales by Application (2021-2026) & (Kilotons)

Table 65. Middle East & Africa PAG-Based Lubricants Sales by Country (2021-2026) & (Kilotons)

Table 66. Middle East & Africa PAG-Based Lubricants Revenue Market Share by Country (2021-2026)

Table 67. Middle East & Africa PAG-Based Lubricants Sales by Type (2021-2026) & (Kilotons)

Table 68. Middle East & Africa PAG-Based Lubricants Sales by Application (2021-2026) & (Kilotons)

Table 69. Key Market Drivers & Growth Opportunities of PAG-Based Lubricants

Table 70. Key Market Challenges & Risks of PAG-Based Lubricants

Table 71. Key Industry Trends of PAG-Based Lubricants

Table 72. PAG-Based Lubricants Raw Material

Table 73. Key Suppliers of Raw Materials

Table 74. PAG-Based Lubricants Distributors List

Table 75. PAG-Based Lubricants Customer List

Table 76. Global PAG-Based Lubricants Sales Forecast by Region (2027-2032) & (Kilotons)

Table 77. Global PAG-Based Lubricants Revenue Forecast by Region (2027-2032) & (\$ millions)

Table 78. Americas PAG-Based Lubricants Sales Forecast by Country (2027-2032) & (Kilotons)

Table 79. Americas PAG-Based Lubricants Annual Revenue Forecast by Country (2027-2032) & (\$ millions)

Table 80. APAC PAG-Based Lubricants Sales Forecast by Region (2027-2032) & (Kilotons)

Table 81. APAC PAG-Based Lubricants Annual Revenue Forecast by Region (2027-2032) & (\$ millions)

Table 82. Europe PAG-Based Lubricants Sales Forecast by Country (2027-2032) & (Kilotons)

Table 83. Europe PAG-Based Lubricants Revenue Forecast by Country (2027-2032) & (\$ millions)

Table 84. Middle East & Africa PAG-Based Lubricants Sales Forecast by Country (2027-2032) & (Kilotons)

Table 85. Middle East & Africa PAG-Based Lubricants Revenue Forecast by Country (2027-2032) & (\$ millions)

Table 86. Global PAG-Based Lubricants Sales Forecast by Type (2027-2032) & (Kilotons)

Table 87. Global PAG-Based Lubricants Revenue Forecast by Type (2027-2032) & (\$ millions)

Table 88. Global PAG-Based Lubricants Sales Forecast by Application (2027-2032) & (Kilotons)

Table 89. Global PAG-Based Lubricants Revenue Forecast by Application (2027-2032) & (\$ millions)

Table 90. Exxon Mobil Basic Information, PAG-Based Lubricants Manufacturing Base, Sales Area and Its Competitors

Table 91. Exxon Mobil PAG-Based Lubricants Product Portfolios and Specifications

Table 92. Exxon Mobil PAG-Based Lubricants Sales (Kilotons), Revenue (\$ Million), Price (US\$/Ton) and Gross Margin (2021-2026)

Table 93. Exxon Mobil Main Business

Table 94. Exxon Mobil Latest Developments

Table 95. DuPont Basic Information, PAG-Based Lubricants Manufacturing Base, Sales Area and Its Competitors

Table 96. DuPont PAG-Based Lubricants Product Portfolios and Specifications

Table 97. DuPont PAG-Based Lubricants Sales (Kilotons), Revenue (\$ Million), Price (US\$/Ton) and Gross Margin (2021-2026)

Table 98. DuPont Main Business

Table 99. DuPont Latest Developments

Table 100. Dow Basic Information, PAG-Based Lubricants Manufacturing Base, Sales Area and Its Competitors

Table 101. Dow PAG-Based Lubricants Product Portfolios and Specifications

Table 102. Dow PAG-Based Lubricants Sales (Kilotons), Revenue (\$ Million), Price (US\$/Ton) and Gross Margin (2021-2026)

Table 103. Dow Main Business

Table 104. Dow Latest Developments

Table 105. Idemitsu Group Basic Information, PAG-Based Lubricants Manufacturing Base, Sales Area and Its Competitors

Table 106. Idemitsu Group PAG-Based Lubricants Product Portfolios and Specifications

Table 107. Idemitsu Group PAG-Based Lubricants Sales (Kilotons), Revenue (\$ Million), Price (US\$/Ton) and Gross Margin (2021-2026)

Table 108. Idemitsu Group Main Business

Table 109. Idemitsu Group Latest Developments

Table 110. BASF Basic Information, PAG-Based Lubricants Manufacturing Base, Sales Area and Its Competitors

Table 111. BASF PAG-Based Lubricants Product Portfolios and Specifications

Table 112. BASF PAG-Based Lubricants Sales (Kilotons), Revenue (\$ Million), Price (US\$/Ton) and Gross Margin (2021-2026)

Table 113. BASF Main Business

Table 114. BASF Latest Developments

Table 115. FUCHS Basic Information, PAG-Based Lubricants Manufacturing Base, Sales Area and Its Competitors

Table 116. FUCHS PAG-Based Lubricants Product Portfolios and Specifications

Table 117. FUCHS PAG-Based Lubricants Sales (Kilotons), Revenue (\$ Million), Price (US\$/Ton) and Gross Margin (2021-2026)

Table 118. FUCHS Main Business

Table 119. FUCHS Latest Developments

Table 120. Shrieve Basic Information, PAG-Based Lubricants Manufacturing Base, Sales Area and Its Competitors

Table 121. Shrieve PAG-Based Lubricants Product Portfolios and Specifications

Table 122. Shrieve PAG-Based Lubricants Sales (Kilotons), Revenue (\$ Million), Price (US\$/Ton) and Gross Margin (2021-2026)

Table 123. Shrieve Main Business

Table 124. Shrieve Latest Developments

Table 125. Shell Basic Information, PAG-Based Lubricants Manufacturing Base, Sales Area and Its Competitors

Table 126. Shell PAG-Based Lubricants Product Portfolios and Specifications

Table 127. Shell PAG-Based Lubricants Sales (Kilotons), Revenue (\$ Million), Price (US\$/Ton) and Gross Margin (2021-2026)

Table 128. Shell Main Business

Table 129. Shell Latest Developments

Table 130. Petronas Basic Information, PAG-Based Lubricants Manufacturing Base, Sales Area and Its Competitors

Table 131. Petronas PAG-Based Lubricants Product Portfolios and Specifications

Table 132. Petronas PAG-Based Lubricants Sales (Kilotons), Revenue (\$ Million), Price (US\$/Ton) and Gross Margin (2021-2026)

Table 133. Petronas Main Business

Table 134. Petronas Latest Developments

Table 135. Phillips 66 Lubricants Basic Information, PAG-Based Lubricants Manufacturing Base, Sales Area and Its Competitors

Table 136. Phillips 66 Lubricants PAG-Based Lubricants Product Portfolios and Specifications

Table 137. Phillips 66 Lubricants PAG-Based Lubricants Sales (Kilotons), Revenue (\$ Million), Price (US\$/Ton) and Gross Margin (2021-2026)

Table 138. Phillips 66 Lubricants Main Business

Table 139. Phillips 66 Lubricants Latest Developments

Table 140. TecLub Basic Information, PAG-Based Lubricants Manufacturing Base, Sales Area and Its Competitors

Table 141. TecLub PAG-Based Lubricants Product Portfolios and Specifications

Table 142. TecLub PAG-Based Lubricants Sales (Kilotons), Revenue (\$ Million), Price (US\$/Ton) and Gross Margin (2021-2026)

Table 143. TecLub Main Business

Table 144. TecLub Latest Developments

Table 145. Chevron Basic Information, PAG-Based Lubricants Manufacturing Base, Sales Area and Its Competitors

Table 146. Chevron PAG-Based Lubricants Product Portfolios and Specifications

Table 147. Chevron PAG-Based Lubricants Sales (Kilotons), Revenue (\$ Million), Price (US\$/Ton) and Gross Margin (2021-2026)

Table 148. Chevron Main Business

Table 149. Chevron Latest Developments

Table 150. Sanyo Chemical Basic Information, PAG-Based Lubricants Manufacturing Base, Sales Area and Its Competitors

Table 151. Sanyo Chemical PAG-Based Lubricants Product Portfolios and Specifications

Table 152. Sanyo Chemical PAG-Based Lubricants Sales (Kilotons), Revenue (\$ Million), Price (US\$/Ton) and Gross Margin (2021-2026)

Table 153. Sanyo Chemical Main Business

Table 154. Sanyo Chemical Latest Developments

Table 155. Triboscience & Engineering Basic Information, PAG-Based Lubricants Manufacturing Base, Sales Area and Its Competitors

Table 156. Triboscience & Engineering PAG-Based Lubricants Product Portfolios and Specifications

Table 157. Triboscience & Engineering PAG-Based Lubricants Sales (Kilotons), Revenue (\$ Million), Price (US\$/Ton) and Gross Margin (2021-2026)

Table 158. Triboscience & Engineering Main Business

Table 159. Triboscience & Engineering Latest Developments

Table 160. Petro-Canada Lubricants Basic Information, PAG-Based Lubricants Manufacturing Base, Sales Area and Its Competitors

Table 161. Petro-Canada Lubricants PAG-Based Lubricants Product Portfolios and Specifications

Table 162. Petro-Canada Lubricants PAG-Based Lubricants Sales (Kilotons), Revenue (\$ Million), Price (US\$/Ton) and Gross Margin (2021-2026)

Table 163. Petro-Canada Lubricants Main Business

Table 164. Petro-Canada Lubricants Latest Developments

Table 165. CITGO Lubricants Basic Information, PAG-Based Lubricants Manufacturing Base, Sales Area and Its Competitors

Table 166. CITGO Lubricants PAG-Based Lubricants Product Portfolios and Specifications

Table 167. CITGO Lubricants PAG-Based Lubricants Sales (Kilotons), Revenue (\$ Million), Price (US\$/Ton) and Gross Margin (2021-2026)

Table 168. CITGO Lubricants Main Business

Table 169. CITGO Lubricants Latest Developments

List Of Figures

LIST OF FIGURES

- Figure 1. Picture of PAG-Based Lubricants
- Figure 2. PAG-Based Lubricants Report Years Considered
- Figure 3. Research Objectives
- Figure 4. Research Methodology
- Figure 5. Research Process and Data Source
- Figure 6. Global PAG-Based Lubricants Sales Growth Rate 2021-2032 (Kilotons)
- Figure 7. Global PAG-Based Lubricants Revenue Growth Rate 2021-2032 (\$ millions)
- Figure 8. PAG-Based Lubricants Sales by Geographic Region (2021, 2025 & 2032) & (\$ millions)
- Figure 9. PAG-Based Lubricants Sales Market Share by Country/Region (2025)
- Figure 10. PAG-Based Lubricants Sales Market Share by Country/Region (2021, 2025 & 2032)
- Figure 11. Product Picture of PAG 46
- Figure 12. Product Picture of PAG 68
- Figure 13. Product Picture of PAG 100
- Figure 14. Product Picture of PAG 150
- Figure 15. Product Picture of Others
- Figure 16. Global PAG-Based Lubricants Sales Market Share by Type in 2026
- Figure 17. Global PAG-Based Lubricants Revenue Market Share by Type (2021-2026)
- Figure 18. Product Picture of Water-Soluble
- Figure 19. Product Picture of Water-Insensitive
- Figure 20. Global PAG-Based Lubricants Sales Market Share by Water Interaction in 2026
- Figure 21. Global PAG-Based Lubricants Revenue Market Share by Water Interaction (2021-2026)
- Figure 22. Product Picture of Compressor Oils
- Figure 23. Product Picture of Gear Oils
- Figure 24. Product Picture of Others
- Figure 25. Global PAG-Based Lubricants Sales Market Share by End-use in 2026
- Figure 26. Global PAG-Based Lubricants Revenue Market Share by End-use (2021-2026)
- Figure 27. PAG-Based Lubricants Consumed in Industrial
- Figure 28. Global PAG-Based Lubricants Market: Industrial (2021-2026) & (Kilotons)
- Figure 29. PAG-Based Lubricants Consumed in Automotive
- Figure 30. Global PAG-Based Lubricants Market: Automotive (2021-2026) & (Kilotons)

- Figure 31. PAG-Based Lubricants Consumed in Others
- Figure 32. Global PAG-Based Lubricants Market: Others (2021-2026) & (Kilotons)
- Figure 33. Global PAG-Based Lubricants Sale Market Share by Application (2025)
- Figure 34. Global PAG-Based Lubricants Revenue Market Share by Application in 2026
- Figure 35. PAG-Based Lubricants Sales by Company in 2026 (Kilotons)
- Figure 36. Global PAG-Based Lubricants Sales Market Share by Company in 2026
- Figure 37. PAG-Based Lubricants Revenue by Company in 2026 (\$ millions)
- Figure 38. Global PAG-Based Lubricants Revenue Market Share by Company in 2026
- Figure 39. Global PAG-Based Lubricants Sales Market Share by Geographic Region (2021-2026)
- Figure 40. Global PAG-Based Lubricants Revenue Market Share by Geographic Region in 2026
- Figure 41. Americas PAG-Based Lubricants Sales 2021-2026 (Kilotons)
- Figure 42. Americas PAG-Based Lubricants Revenue 2021-2026 (\$ millions)
- Figure 43. APAC PAG-Based Lubricants Sales 2021-2026 (Kilotons)
- Figure 44. APAC PAG-Based Lubricants Revenue 2021-2026 (\$ millions)
- Figure 45. Europe PAG-Based Lubricants Sales 2021-2026 (Kilotons)
- Figure 46. Europe PAG-Based Lubricants Revenue 2021-2026 (\$ millions)
- Figure 47. Middle East & Africa PAG-Based Lubricants Sales 2021-2026 (Kilotons)
- Figure 48. Middle East & Africa PAG-Based Lubricants Revenue 2021-2026 (\$ millions)
- Figure 49. Americas PAG-Based Lubricants Sales Market Share by Country in 2026
- Figure 50. Americas PAG-Based Lubricants Revenue Market Share by Country (2021-2026)
- Figure 51. Americas PAG-Based Lubricants Sales Market Share by Type (2021-2026)
- Figure 52. Americas PAG-Based Lubricants Sales Market Share by Application (2021-2026)
- Figure 53. United States PAG-Based Lubricants Revenue Growth 2021-2026 (\$ millions)
- Figure 54. Canada PAG-Based Lubricants Revenue Growth 2021-2026 (\$ millions)
- Figure 55. Mexico PAG-Based Lubricants Revenue Growth 2021-2026 (\$ millions)
- Figure 56. Brazil PAG-Based Lubricants Revenue Growth 2021-2026 (\$ millions)
- Figure 57. APAC PAG-Based Lubricants Sales Market Share by Region in 2026
- Figure 58. APAC PAG-Based Lubricants Revenue Market Share by Region (2021-2026)
- Figure 59. APAC PAG-Based Lubricants Sales Market Share by Type (2021-2026)
- Figure 60. APAC PAG-Based Lubricants Sales Market Share by Application (2021-2026)
- Figure 61. China PAG-Based Lubricants Revenue Growth 2021-2026 (\$ millions)
- Figure 62. Japan PAG-Based Lubricants Revenue Growth 2021-2026 (\$ millions)

Figure 63. South Korea PAG-Based Lubricants Revenue Growth 2021-2026 (\$ millions)

Figure 64. Southeast Asia PAG-Based Lubricants Revenue Growth 2021-2026 (\$ millions)

Figure 65. India PAG-Based Lubricants Revenue Growth 2021-2026 (\$ millions)

Figure 66. Australia PAG-Based Lubricants Revenue Growth 2021-2026 (\$ millions)

Figure 67. China Taiwan PAG-Based Lubricants Revenue Growth 2021-2026 (\$ millions)

Figure 68. Europe PAG-Based Lubricants Sales Market Share by Country in 2026

Figure 69. Europe PAG-Based Lubricants Revenue Market Share by Country (2021-2026)

Figure 70. Europe PAG-Based Lubricants Sales Market Share by Type (2021-2026)

Figure 71. Europe PAG-Based Lubricants Sales Market Share by Application (2021-2026)

Figure 72. Germany PAG-Based Lubricants Revenue Growth 2021-2026 (\$ millions)

Figure 73. France PAG-Based Lubricants Revenue Growth 2021-2026 (\$ millions)

Figure 74. UK PAG-Based Lubricants Revenue Growth 2021-2026 (\$ millions)

Figure 75. Italy PAG-Based Lubricants Revenue Growth 2021-2026 (\$ millions)

Figure 76. Russia PAG-Based Lubricants Revenue Growth 2021-2026 (\$ millions)

Figure 77. Middle East & Africa PAG-Based Lubricants Sales Market Share by Country (2021-2026)

Figure 78. Middle East & Africa PAG-Based Lubricants Sales Market Share by Type (2021-2026)

Figure 79. Middle East & Africa PAG-Based Lubricants Sales Market Share by Application (2021-2026)

Figure 80. Egypt PAG-Based Lubricants Revenue Growth 2021-2026 (\$ millions)

Figure 81. South Africa PAG-Based Lubricants Revenue Growth 2021-2026 (\$ millions)

Figure 82. Israel PAG-Based Lubricants Revenue Growth 2021-2026 (\$ millions)

Figure 83. Turkey PAG-Based Lubricants Revenue Growth 2021-2026 (\$ millions)

Figure 84. GCC Countries PAG-Based Lubricants Revenue Growth 2021-2026 (\$ millions)

Figure 85. Manufacturing Cost Structure Analysis of PAG-Based Lubricants in 2026

Figure 86. Manufacturing Process Analysis of PAG-Based Lubricants

Figure 87. Industry Chain Structure of PAG-Based Lubricants

Figure 88. Channels of Distribution

Figure 89. Global PAG-Based Lubricants Sales Market Forecast by Region (2027-2032)

Figure 90. Global PAG-Based Lubricants Revenue Market Share Forecast by Region (2027-2032)

Figure 91. Global PAG-Based Lubricants Sales Market Share Forecast by Type (2027-2032)

Figure 92. Global PAG-Based Lubricants Revenue Market Share Forecast by Type (2027-2032)

Figure 93. Global PAG-Based Lubricants Sales Market Share Forecast by Application (2027-2032)

Figure 94. Global PAG-Based Lubricants Revenue Market Share Forecast by Application (2027-2032)

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