

# **Aviation Synthetic Ester Lubricants Market Size and Forecast (2021 - 2031), Global and Regional Share, Trend, and Growth Opportunity Analysis Report Coverage: By Product Type (Engine Oil, Hydraulic Oil, Gear Oil, Transformer Oil, Refrigeration Oil, Grease, Turbine Oil, Metalworking Fluids, and Others), End Use (Commercial Aircraft, Military Aircraft, Spacecraft/Satellites, Drone and UAV, and Others), and Geography (North America, Europe, Asia Pacific, Middle East and Africa, and South and Central America)**

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## **Abstracts**

The aviation synthetic ester lubricants market size is projected to reach US\$ 339.21 million by 2031 from US\$ 217.99 million in 2024. The market is expected to register a CAGR of 6.7% during 2025-2031.

Aviation synthetic ester lubricants have gained significant attention in the global market due to growing demand for high-performance lubricants in the aviation sector.

Commercial aircraft fleet modernization represents a transformative driver for aviation synthetic ester lubricants, as NextGen aircraft incorporate revolutionary engine designs requiring higher temperature capability and sophisticated lubrication solutions.

According to IATA fleet analysis, the global commercial fleet comprises 35,550 aircraft, including 30,300 active units, with NextGen aircraft representing 26% of the fleet in 2024, up from 11% in 2019. NextGen aircraft, including A320neo, 737 MAX, A350, and

787 families, incorporate advanced turbofan engines operating at higher turbine inlet temperatures to achieve superior fuel efficiency and reduced emissions. Modern turbine engines operate with turbine inlet gas temperatures in the range of 1350-1450°C, exceeding the capabilities of conventional mineral lubricants. These advanced engines require synthetic ester lubricants that maintain thermal stability at extreme temperatures, provide superior oxidation resistance, and exhibit minimal volatility under high-stress conditions. Single-crystal nickel alloy turbine airfoils require sophisticated cooling systems utilizing compressor bleed air, necessitating lubricants compatible with complex cooling schemes and thermal management systems. NextGen aircraft demonstrate 5-10% greater payload capacity and maximum take-off weights, increasing average aircraft utilization to record levels of 54,000 available tonne-kilometers per aircraft in 2024. Aircraft fleet utilization reaches peak operational hours, driving consumable lubricant demand proportional to flight hours and maintenance cycles. The alignment of fleet composition toward more efficient aircraft designs creates sustained demand for premium synthetic ester lubricants that meet stringent SAE AS5780 specifications and emerging certification requirements for enhanced thermal and oxidative stability.

Some of the key players operating in the aviation synthetic ester lubricants market include China Petroleum & Chemical Corp (Sinopec), Exxon Mobil Corp, Chevron Corp, Phillips 66, TotalEnergies SE, Valvoline Inc, Fuchs SE, Shell Plc, ENEOS Corp, and Repsol SA. Players operating in the aviation synthetic ester lubricants market focus on providing innovative products at affordable prices to fulfill customer demand.

Primary and secondary sources have derived the overall aviation synthetic ester lubricants market size. To begin the research process, exhaustive secondary research has been conducted using internal and external sources to obtain qualitative and quantitative information related to the market. Also, multiple primary interviews have been conducted with industry participants to validate the data and gain more analytical insights into the topic. The participants of this process include industry experts such as VPs, business development managers, market intelligence managers, and national sales managers—along with external consultants such as valuation experts, research analysts, and key opinion leaders—specializing in the aviation synthetic ester lubricants market.

### **Reason to buy**

Save and reduce time carrying out entry-level research by identifying the growth, size, leading players and segments in the global aviation synthetic ester

lubricants market.

Highlights key business priorities in order to assist companies to realign their business strategies

The key findings and recommendations highlight crucial progressive industry trends in the global aviation synthetic ester lubricants market, thereby allowing players across the value chain to develop effective long-term strategies

Develop/modify business expansion plans by using substantial growth offering developed and emerging markets

Scrutinize in-depth global aviation synthetic ester lubricants market trends and outlook coupled with the factors driving the market, as well as those hindering it.

Enhance the decision-making process by understanding the strategies that underpin commercial interest with respect to client products, segmentation, pricing and distribution

### **The List of Companies - Aviation Synthetic Ester Lubricants Market**

LANXESS

Teknor Apex

KL?BER LUBRICATION ARGENTINA SA

Indian Oil Corporation Ltd

DuPont

Bioblend Sustainable Performance

LUKOIL

M&I Materials Ltd

Quaker Chemical Corporation

Vascomill MMS

Nye Lubricants, Inc

Condat Group

Motul

Vizag Chemicals

Atlantic Lubes

Beijing Haohui Weiye Petrochemical Co,Ltd

Lubrizol

Kuwait Petroleum

GROWMARK, Inc

Savsol Lubricants

MPM International Oil Company BV

Aceites Lubricantes Sash

Anglo Australia Pty Ltd

CASTROL LIMITED

NEO Synthetic Oil

## Contents

### **1. INTRODUCTION**

- 1.1 Report Guidance
- 1.2 Market Segmentation

### **2. EXECUTIVE SUMMARY**

- 2.1 Analyst Market Outlook
- 2.2 Market Attractiveness

### **3. RESEARCH METHODOLOGY**

- 3.1 Secondary Research
- 3.2 Primary Research
  - 3.2.1 Hypothesis formulation:
  - 3.2.2 Macro-economic factor analysis:
  - 3.2.3 Developing base number:
  - 3.2.4 Data Triangulation:
  - 3.2.5 Country level data:
- 3.3 Assumptions and Limitations

### **4. AVIATION SYNTHETIC ESTER LUBRICANTS MARKET LANDSCAPE**

- 4.1 Overview
- 4.2 Porter's Five Forces Analysis
  - 4.2.1 Bargaining Power of Suppliers:
  - 4.2.2 Bargaining Power of Buyers
  - 4.2.3 Threat of Substitutes
  - 4.2.4 Threat of New Entrants
  - 4.2.5 Intensity of Competitive Rivalry
- 4.3 Ecosystem Analysis
  - 4.3.1 Raw Material Suppliers
  - 4.3.2 Manufacturers
  - 4.3.3 Distributors
  - 4.3.4 End Users
  - 4.3.5 List of Vendors in the Value Chain

## **5. AVIATION SYNTHETIC ESTER LUBRICANTS MARKET – KEY MARKET DYNAMICS**

### 5.1 Aviation Synthetic Ester Lubricants Market – Key Market Dynamics

#### 5.2 Market Drivers

##### 5.2.1 Surging Global Aviation Passenger Traffic

##### 5.2.2 Fleet Modernization with NextGen Aircraft Demanding Advanced Thermal Performance

##### 5.2.3 Enhanced Thermal Stability Requirements Exceeding Aircraft Fuel System Capabilities

#### 5.3 Market Restraints

##### 5.3.1 Regulatory Compliance Complexity and Evolving Aviation Lubricant Specifications

##### 5.3.2 High Synthetic Ester Lubricant Production Cost Limits Widespread Adoption

##### 5.3.3 Competition From Lower-Cost Synthetic and Mineral Oil Alternatives

#### 5.4 Market Opportunities

##### 5.4.1 Formulation Advances Target Extreme Thermal and Oxidation Stability

##### 5.4.2 Expanding Applications In Auxiliary Power Units And Hydraulics

##### 5.4.3 Circular Economy Integration Through Recycling And Re-Refining

#### 5.5 Future Trends

##### 5.5.1 Development Of Bio-Based Synthetic Ester Lubricants For Greener Aviation

##### 5.5.2 Nanotechnology Additives Elevate Lubrication and Wear Protection

##### 5.5.3 Multifunctional Lubricants Merging Cooling And Lubrication Functions

#### 5.6 Impact Analysis of Drivers and Restraints

## **6. AVIATION SYNTHETIC ESTER LUBRICANTS MARKET – GLOBAL MARKET ANALYSIS**

### 6.1 Aviation Synthetic Ester Lubricants Market Volume (Tons), 2021–2031

### 6.2 Aviation Synthetic Ester Lubricants Market Volume Forecast and Analysis (Tons)

### 6.3 Aviation Synthetic Ester Lubricants Market Revenue and Forecast (US\$ Million), 2021–2031

### 6.4 Aviation Synthetic Ester Lubricants Market Forecast and Analysis (US\$ Million)

## **7. AVIATION SYNTHETIC ESTER LUBRICANTS MARKET VOLUME AND REVENUE ANALYSIS – BY PRODUCT TYPE**

### 7.1 Engine Oil

#### 7.1.1 Overview

#### 7.1.2 Engine Oil: Aviation Synthetic Ester Lubricants Market – Volume and Forecast to

2031 (Tons)

7.1.3 Engine Oil: Aviation Synthetic Ester Lubricants Market – Revenue and Forecast to 2031 (US\$ Million)

7.2 Hydraulic Oil

7.2.1 Overview

7.2.2 Hydraulic Oil: Aviation Synthetic Ester Lubricants Market – Volume and Forecast to 2031 (Tons)

7.2.3 Hydraulic Oil: Aviation Synthetic Ester Lubricants Market – Revenue and Forecast to 2031 (US\$ Million)

7.3 Gear Oil

7.3.1 Overview

7.3.2 Gear Oil: Aviation Synthetic Ester Lubricants Market – Volume and Forecast to 2031 (Tons)

7.3.3 Gear Oil: Aviation Synthetic Ester Lubricants Market – Revenue and Forecast to 2031 (US\$ Million)

7.4 Transformer Oil

7.4.1 Overview

7.4.2 Transformer Oil: Aviation Synthetic Ester Lubricants Market – Volume and Forecast to 2031 (Tons)

7.4.3 Transformer Oil: Aviation Synthetic Ester Lubricants Market – Revenue and Forecast to 2031 (US\$ Million)

7.5 Refrigeration Oil

7.5.1 Overview

7.5.2 Refrigeration Oil: Aviation Synthetic Ester Lubricants Market – Volume and Forecast to 2031 (Tons)

7.5.3 Refrigeration Oil: Aviation Synthetic Ester Lubricants Market – Revenue and Forecast to 2031 (US\$ Million)

7.6 Grease

7.6.1 Overview

7.6.2 Grease: Aviation Synthetic Ester Lubricants Market – Volume and Forecast to 2031 (Tons)

7.6.3 Grease: Aviation Synthetic Ester Lubricants Market – Revenue and Forecast to 2031 (US\$ Million)

7.7 Turbine Oil

7.7.1 Overview

7.7.2 Turbine Oil: Aviation Synthetic Ester Lubricants Market – Volume and Forecast to 2031 (Tons)

7.7.3 Turbine Oil: Aviation Synthetic Ester Lubricants Market – Revenue and Forecast to 2031 (US\$ Million)

## 7.8 Metalworking Fluids

### 7.8.1 Overview

7.8.2 Metalworking Fluids: Aviation Synthetic Ester Lubricants Market – Volume and Forecast to 2031 (Tons)

7.8.3 Metalworking Fluids: Aviation Synthetic Ester Lubricants Market – Revenue and Forecast to 2031 (US\$ Million)

## 7.9 Others

### 7.9.1 Overview

7.9.2 Others: Aviation Synthetic Ester Lubricants Market – Volume and Forecast to 2031 (Tons)

7.9.3 Others: Aviation Synthetic Ester Lubricants Market – Revenue and Forecast to 2031 (US\$ Million)

## **8. AVIATION SYNTHETIC ESTER LUBRICANTS MARKET VOLUME AND REVENUE ANALYSIS – BY END USE**

### 8.1 Commercial Aircraft

#### 8.1.1 Overview

8.1.2 Commercial Aircraft: Aviation Synthetic Ester Lubricants Market – Volume and Forecast to 2031 (Tons)

8.1.3 Commercial Aircraft: Aviation Synthetic Ester Lubricants Market – Revenue and Forecast to 2031 (US\$ Million)

### 8.2 Military Aircraft

#### 8.2.1 Overview

8.2.2 Military Aircraft: Aviation Synthetic Ester Lubricants Market – Volume and Forecast to 2031 (Tons)

8.2.3 Military Aircraft: Aviation Synthetic Ester Lubricants Market – Revenue and Forecast to 2031 (US\$ Million)

### 8.3 Spacecraft or Satellites

#### 8.3.1 Overview

8.3.2 Spacecraft or Satellites: Aviation Synthetic Ester Lubricants Market – Volume and Forecast to 2031 (Tons)

8.3.3 Spacecraft or Satellites: Aviation Synthetic Ester Lubricants Market – Revenue and Forecast to 2031 (US\$ Million)

### 8.4 Drone and UAV

#### 8.4.1 Overview

8.4.2 Drone and UAV: Aviation Synthetic Ester Lubricants Market – Volume and Forecast to 2031 (Tons)

8.4.3 Drone and UAV: Aviation Synthetic Ester Lubricants Market – Revenue and

Forecast to 2031 (US\$ Million)

8.5 Others

8.5.1 Overview

8.5.2 Others: Aviation Synthetic Ester Lubricants Market – Volume and Forecast to 2031 (Tons)

8.5.3 Others: Aviation Synthetic Ester Lubricants Market – Revenue and Forecast to 2031 (US\$ Million)

## **9. AVIATION SYNTHETIC ESTER LUBRICANTS MARKET – GEOGRAPHICAL ANALYSIS**

9.1 Overview

9.2 North America

9.2.1 North America Aviation Synthetic Ester Lubricants Market Overview

9.2.2 North America: Aviation Synthetic Ester Lubricants Market – Volume and Forecast, 2021–2031 (Tons)

9.2.3 North America: Aviation Synthetic Ester Lubricants Market – Revenue and Forecast, 2021–2031 (US\$Million)

9.2.4 North America: Aviation Synthetic Ester Lubricants Market Breakdown, by Product Type

9.2.4.1 North America: Aviation Synthetic Ester Lubricants Market Volume and Forecast and Analysis – by Product Type

9.2.4.2 North America: Aviation Synthetic Ester Lubricants Market – Revenue and Forecast and Analysis – by Product Type

9.2.5 North America: Aviation Synthetic Ester Lubricants Market Breakdown, by End Use

9.2.5.1 North America: Aviation Synthetic Ester Lubricants Market Volume and Forecast and Analysis – by End Use

9.2.5.2 North America: Aviation Synthetic Ester Lubricants Market – Revenue and Forecast and Analysis – by End Use

9.2.6 North America: Aviation Synthetic Ester Lubricants Market – Revenue and Forecast and Analysis – by Country

9.2.6.1 North America: Aviation Synthetic Ester Lubricants Market – Volume and Forecast and Analysis – by Country

9.2.6.2 North America: Aviation Synthetic Ester Lubricants Market – Revenue and Forecast and Analysis – by Country

9.2.6.3 United States: Aviation Synthetic Ester Lubricants Market – Revenue and Forecast to 2031 (US\$ Million)

9.2.6.3.1 United States: Aviation Synthetic Ester Lubricants Market Breakdown, by

## Product Type

9.2.6.3.2 United States: Aviation Synthetic Ester Lubricants Market Breakdown, by End Use

9.2.6.4 Canada: Aviation Synthetic Ester Lubricants Market – Revenue and Forecast to 2031 (US\$ Million)

9.2.6.4.1 Canada: Aviation Synthetic Ester Lubricants Market Breakdown, by Product Type

9.2.6.4.2 Canada: Aviation Synthetic Ester Lubricants Market Breakdown, by End Use

9.2.6.5 Mexico: Aviation Synthetic Ester Lubricants Market – Revenue and Forecast to 2031 (US\$ Million)

9.2.6.5.1 Mexico: Aviation Synthetic Ester Lubricants Market Breakdown, by Product Type

9.2.6.5.2 Mexico: Aviation Synthetic Ester Lubricants Market Breakdown, by End Use

## 9.3 Europe

9.3.1 Europe Aviation Synthetic Ester Lubricants Market Overview

9.3.2 Europe: Aviation Synthetic Ester Lubricants Market – Volume and Forecast, 2021–2031 (Tons)

9.3.3 Europe: Aviation Synthetic Ester Lubricants Market – Revenue and Forecast, 2021–2031 (US\$Million)

9.3.4 Europe: Aviation Synthetic Ester Lubricants Market Breakdown, by Product Type

9.3.4.1 Europe: Aviation Synthetic Ester Lubricants Market Volume and Forecast and Analysis – by Product Type

9.3.4.2 Europe: Aviation Synthetic Ester Lubricants Market – Revenue and Forecast and Analysis – by Product Type

9.3.5 Europe: Aviation Synthetic Ester Lubricants Market Breakdown, by End Use

9.3.5.1 Europe: Aviation Synthetic Ester Lubricants Market Volume and Forecast and Analysis – by End Use

9.3.5.2 Europe: Aviation Synthetic Ester Lubricants Market – Revenue and Forecast and Analysis – by End Use

9.3.6 Europe: Aviation Synthetic Ester Lubricants Market – Revenue and Forecast and Analysis – by Country

9.3.6.1 Europe: Aviation Synthetic Ester Lubricants Market – Volume and Forecast and Analysis – by Country

9.3.6.2 Europe: Aviation Synthetic Ester Lubricants Market – Revenue and Forecast and Analysis – by Country

9.3.6.3 Germany: Aviation Synthetic Ester Lubricants Market – Revenue and Forecast to 2031 (US\$ Million)

9.3.6.3.1 Germany: Aviation Synthetic Ester Lubricants Market Breakdown, by Product Type

9.3.6.3.2 Germany: Aviation Synthetic Ester Lubricants Market Breakdown, by End Use

9.3.6.4 France: Aviation Synthetic Ester Lubricants Market – Revenue and Forecast to 2031 (US\$ Million)

9.3.6.4.1 France: Aviation Synthetic Ester Lubricants Market Breakdown, by Product Type

9.3.6.4.2 France: Aviation Synthetic Ester Lubricants Market Breakdown, by End Use

9.3.6.5 Italy: Aviation Synthetic Ester Lubricants Market – Revenue and Forecast to 2031 (US\$ Million)

9.3.6.5.1 Italy: Aviation Synthetic Ester Lubricants Market Breakdown, by Product Type

9.3.6.5.2 Italy: Aviation Synthetic Ester Lubricants Market Breakdown, by End Use

9.3.6.6 United Kingdom: Aviation Synthetic Ester Lubricants Market – Revenue and Forecast to 2031 (US\$ Million)

9.3.6.6.1 United Kingdom: Aviation Synthetic Ester Lubricants Market Breakdown, by Product Type

9.3.6.6.2 United Kingdom: Aviation Synthetic Ester Lubricants Market Breakdown, by End Use

9.3.6.7 Russia: Aviation Synthetic Ester Lubricants Market – Revenue and Forecast to 2031 (US\$ Million)

9.3.6.7.1 Russia: Aviation Synthetic Ester Lubricants Market Breakdown, by Product Type

9.3.6.7.2 Russia: Aviation Synthetic Ester Lubricants Market Breakdown, by End Use

9.3.6.8 Rest of Europe: Aviation Synthetic Ester Lubricants Market – Revenue and Forecast to 2031 (US\$ Million)

9.3.6.8.1 Rest of Europe: Aviation Synthetic Ester Lubricants Market Breakdown, by Product Type

9.3.6.8.2 Rest of Europe: Aviation Synthetic Ester Lubricants Market Breakdown, by End Use

9.4 Asia Pacific

9.4.1 Asia Pacific Aviation Synthetic Ester Lubricants Market Overview

9.4.2 Asia Pacific: Aviation Synthetic Ester Lubricants Market – Volume and Forecast, 2021–2031 (Tons)

9.4.3 Asia Pacific: Aviation Synthetic Ester Lubricants Market – Revenue and Forecast, 2021–2031 (US\$Million)

9.4.4 Asia Pacific: Aviation Synthetic Ester Lubricants Market Breakdown, by Product Type

9.4.4.1 Asia Pacific: Aviation Synthetic Ester Lubricants Market Volume and Forecast and Analysis – by Product Type

9.4.4.2 Asia Pacific: Aviation Synthetic Ester Lubricants Market – Revenue and Forecast and Analysis – by Product Type

- 9.4.5 Asia Pacific: Aviation Synthetic Ester Lubricants Market Breakdown, by End Use
  - 9.4.5.1 Asia Pacific: Aviation Synthetic Ester Lubricants Market Volume and Forecast and Analysis – by End Use
  - 9.4.5.2 Asia Pacific: Aviation Synthetic Ester Lubricants Market – Revenue and Forecast and Analysis – by End Use
- 9.4.6 Asia Pacific: Aviation Synthetic Ester Lubricants Market – Revenue and Forecast and Analysis – by Country
  - 9.4.6.1 Asia Pacific: Aviation Synthetic Ester Lubricants Market – Volume and Forecast and Analysis – by Country
  - 9.4.6.2 Asia Pacific: Aviation Synthetic Ester Lubricants Market – Revenue and Forecast and Analysis – by Country
  - 9.4.6.3 Australia: Aviation Synthetic Ester Lubricants Market – Revenue and Forecast to 2031 (US\$ Million)
    - 9.4.6.3.1 Australia: Aviation Synthetic Ester Lubricants Market Breakdown, by Product Type
    - 9.4.6.3.2 Australia: Aviation Synthetic Ester Lubricants Market Breakdown, by End Use
  - 9.4.6.4 China: Aviation Synthetic Ester Lubricants Market – Revenue and Forecast to 2031 (US\$ Million)
    - 9.4.6.4.1 China: Aviation Synthetic Ester Lubricants Market Breakdown, by Product Type
    - 9.4.6.4.2 China: Aviation Synthetic Ester Lubricants Market Breakdown, by End Use
  - 9.4.6.5 India: Aviation Synthetic Ester Lubricants Market – Revenue and Forecast to 2031 (US\$ Million)
    - 9.4.6.5.1 India: Aviation Synthetic Ester Lubricants Market Breakdown, by Product Type
    - 9.4.6.5.2 India: Aviation Synthetic Ester Lubricants Market Breakdown, by End Use
  - 9.4.6.6 Japan: Aviation Synthetic Ester Lubricants Market – Revenue and Forecast to 2031 (US\$ Million)
    - 9.4.6.6.1 Japan: Aviation Synthetic Ester Lubricants Market Breakdown, by Product Type
    - 9.4.6.6.2 Japan: Aviation Synthetic Ester Lubricants Market Breakdown, by End Use
  - 9.4.6.7 South Korea: Aviation Synthetic Ester Lubricants Market – Revenue and Forecast to 2031 (US\$ Million)
    - 9.4.6.7.1 South Korea: Aviation Synthetic Ester Lubricants Market Breakdown, by Product Type
    - 9.4.6.7.2 South Korea: Aviation Synthetic Ester Lubricants Market Breakdown, by End Use
  - 9.4.6.8 Rest of APAC: Aviation Synthetic Ester Lubricants Market – Revenue and Forecast to 2031 (US\$ Million)
    - 9.4.6.8.1 Rest of APAC: Aviation Synthetic Ester Lubricants Market Breakdown, by

## Product Type

### 9.4.6.8.2 Rest of APAC: Aviation Synthetic Ester Lubricants Market Breakdown, by End Use

## 9.5 Middle East and Africa

### 9.5.1 Middle East and Africa Aviation Synthetic Ester Lubricants Market Overview

### 9.5.2 Middle East and Africa: Aviation Synthetic Ester Lubricants Market – Volume and Forecast, 2021–2031 (Tons)

### 9.5.3 Middle East and Africa: Aviation Synthetic Ester Lubricants Market – Revenue and Forecast, 2021–2031 (US\$Million)

### 9.5.4 Middle East and Africa: Aviation Synthetic Ester Lubricants Market Breakdown, by Product Type

#### 9.5.4.1 Middle East and Africa: Aviation Synthetic Ester Lubricants Market Volume and Forecast and Analysis – by Product Type

#### 9.5.4.2 Middle East and Africa: Aviation Synthetic Ester Lubricants Market – Revenue and Forecast and Analysis – by Product Type

### 9.5.5 Middle East and Africa: Aviation Synthetic Ester Lubricants Market Breakdown, by End Use

#### 9.5.5.1 Middle East and Africa: Aviation Synthetic Ester Lubricants Market Volume and Forecast and Analysis – by End Use

#### 9.5.5.2 Middle East and Africa: Aviation Synthetic Ester Lubricants Market – Revenue and Forecast and Analysis – by End Use

### 9.5.6 Middle East and Africa: Aviation Synthetic Ester Lubricants Market – Revenue and Forecast and Analysis – by Country

#### 9.5.6.1 Middle East and Africa: Aviation Synthetic Ester Lubricants Market – Volume and Forecast and Analysis – by Country

#### 9.5.6.2 Middle East and Africa: Aviation Synthetic Ester Lubricants Market – Revenue and Forecast and Analysis – by Country

#### 9.5.6.3 South Africa: Aviation Synthetic Ester Lubricants Market – Revenue and Forecast to 2031 (US\$ Million)

##### 9.5.6.3.1 South Africa: Aviation Synthetic Ester Lubricants Market Breakdown, by Product Type

##### 9.5.6.3.2 South Africa: Aviation Synthetic Ester Lubricants Market Breakdown, by End Use

#### 9.5.6.4 Saudi Arabia: Aviation Synthetic Ester Lubricants Market – Revenue and Forecast to 2031 (US\$ Million)

##### 9.5.6.4.1 Saudi Arabia: Aviation Synthetic Ester Lubricants Market Breakdown, by Product Type

##### 9.5.6.4.2 Saudi Arabia: Aviation Synthetic Ester Lubricants Market Breakdown, by End Use

9.5.6.5 United Arab Emirates: Aviation Synthetic Ester Lubricants Market – Revenue and Forecast to 2031 (US\$ Million)

9.5.6.5.1 United Arab Emirates: Aviation Synthetic Ester Lubricants Market Breakdown, by Product Type

9.5.6.5.2 United Arab Emirates: Aviation Synthetic Ester Lubricants Market Breakdown, by End Use

9.5.6.6 Rest of Middle East and Africa: Aviation Synthetic Ester Lubricants Market – Revenue and Forecast to 2031 (US\$ Million)

9.5.6.6.1 Rest of Middle East and Africa: Aviation Synthetic Ester Lubricants Market Breakdown, by Product Type

9.5.6.6.2 Rest of Middle East and Africa: Aviation Synthetic Ester Lubricants Market Breakdown, by End Use

9.6 South and Central America

9.6.1 South and Central America Aviation Synthetic Ester Lubricants Market Overview

9.6.2 South and Central America: Aviation Synthetic Ester Lubricants Market – Volume and Forecast, 2021–2031 (Tons)

9.6.3 South and Central America: Aviation Synthetic Ester Lubricants Market – Revenue and Forecast, 2021–2031 (US\$Million)

9.6.4 South and Central America: Aviation Synthetic Ester Lubricants Market Breakdown, by Product Type

9.6.4.1 South and Central America: Aviation Synthetic Ester Lubricants Market Volume and Forecast and Analysis – by Product Type

9.6.4.2 South and Central America: Aviation Synthetic Ester Lubricants Market – Revenue and Forecast and Analysis – by Product Type

9.6.5 South and Central America: Aviation Synthetic Ester Lubricants Market Breakdown, by End Use

9.6.5.1 South and Central America: Aviation Synthetic Ester Lubricants Market Volume and Forecast and Analysis – by End Use

9.6.5.2 South and Central America: Aviation Synthetic Ester Lubricants Market – Revenue and Forecast and Analysis – by End Use

9.6.6 South and Central America: Aviation Synthetic Ester Lubricants Market – Revenue and Forecast and Analysis – by Country

9.6.6.1 South and Central America: Aviation Synthetic Ester Lubricants Market – Volume and Forecast and Analysis – by Country

9.6.6.2 South and Central America: Aviation Synthetic Ester Lubricants Market – Revenue and Forecast and Analysis – by Country

9.6.6.3 Brazil: Aviation Synthetic Ester Lubricants Market – Revenue and Forecast to 2031 (US\$ Million)

9.6.6.3.1 Brazil: Aviation Synthetic Ester Lubricants Market Breakdown, by Product

## Type

9.6.6.3.2 Brazil: Aviation Synthetic Ester Lubricants Market Breakdown, by End Use

9.6.6.4 Argentina: Aviation Synthetic Ester Lubricants Market – Revenue and Forecast to 2031 (US\$ Million)

9.6.6.4.1 Argentina: Aviation Synthetic Ester Lubricants Market Breakdown, by Product Type

9.6.6.4.2 Argentina: Aviation Synthetic Ester Lubricants Market Breakdown, by End Use

9.6.6.5 Rest of South and Central America: Aviation Synthetic Ester Lubricants Market – Revenue and Forecast to 2031 (US\$ Million)

9.6.6.5.1 Rest of South and Central America: Aviation Synthetic Ester Lubricants Market Breakdown, by Product Type

9.6.6.5.2 Rest of South and Central America: Aviation Synthetic Ester Lubricants Market Breakdown, by End Use

## 10. COMPETITIVE LANDSCAPE

10.1 Heat Map Analysis by Key Players

10.2 Company Market Share Analysis, 2024

## 11. INDUSTRY LANDSCAPE

11.1 Overview

11.2 Market Initiative

11.3 Merger and Acquisition

11.4 Other Developments

## 12. COMPANY PROFILES

12.1 Exxon Mobil Corp

12.1.1 Key Facts

12.1.2 Business Description

12.1.3 Products and Services

12.1.4 Financial Overview

12.1.5 SWOT Analysis

12.1.6 Key Developments

12.2 Chevron Corp

12.2.1 Key Facts

12.2.2 Business Description

12.2.3 Products and Services

- 12.2.4 Financial Overview
- 12.2.5 SWOT Analysis
- 12.2.6 Key Developments
- 12.3 TotalEnergies SE
  - 12.3.1 Key Facts
  - 12.3.2 Business Description
  - 12.3.3 Products and Services
  - 12.3.4 Financial Overview
  - 12.3.5 SWOT Analysis
  - 12.3.6 Key Developments
- 12.4 Valvoline Inc
  - 12.4.1 Key Facts
  - 12.4.2 Business Description
  - 12.4.3 Products and Services
  - 12.4.4 Financial Overview
  - 12.4.5 SWOT Analysis
  - 12.4.6 Key Developments
- 12.5 China Petroleum & Chemical Corp (Sinopec)
  - 12.5.1 Key Facts
  - 12.5.2 Business Description
  - 12.5.3 Products and Services
  - 12.5.4 Financial Overview
  - 12.5.5 SWOT Analysis
  - 12.5.6 Key Developments
- 12.6 Fuchs SE
  - 12.6.1 Key Facts
  - 12.6.2 Business Description
  - 12.6.3 Products and Services
  - 12.6.4 Financial Overview
  - 12.6.5 SWOT Analysis
  - 12.6.6 Key Developments
- 12.7 Repsol SA
  - 12.7.1 Key Facts
  - 12.7.2 Business Description
  - 12.7.3 Products and Services
  - 12.7.4 Financial Overview
  - 12.7.5 SWOT Analysis
  - 12.7.6 Key Developments
- 12.8 ENEOS Corp

- 12.8.1 Key Facts
- 12.8.2 Business Description
- 12.8.3 Products and Services
- 12.8.4 Financial Overview
- 12.8.5 SWOT Analysis
- 12.8.6 Key Developments
- 12.9 Shell Plc
- 12.9.1 Key Facts
- 12.9.2 Business Description
- 12.9.3 Products and Services
- 12.9.4 Financial Overview
- 12.9.5 SWOT Analysis
- 12.9.6 Key Developments
- 12.10 Phillips
- 12.10.1 Key Facts
- 12.10.2 Business Description
- 12.10.3 Products and Services
- 12.10.4 Financial Overview
- 12.10.5 SWOT Analysis
- 12.10.6 Key Developments

## **13. APPENDIX**

- 13.1 About The Insight Partners
- 13.2 List of Abbreviations

## List Of Tables

### LIST OF TABLES

Table 1. Aviation Synthetic Ester Lubricants Market Segmentation

Table 2. List of Vendors

Table 3. Aviation Synthetic Ester Lubricants Market – Volume, 2021–2024 (Tons)

Table 4. Aviation Synthetic Ester Lubricants Market – Volume Forecast, 2025–2031 (Tons)

Table 5. Aviation Synthetic Ester Lubricants Market – Revenue, 2021–2024 (US\$ Million)

Table 6. Aviation Synthetic Ester Lubricants Market – Revenue Forecast, 2025–2031 (US\$Million)

Table 7. Aviation Synthetic Ester Lubricants Market – Volume, 2021–2024 (Tons) – by Product Type

Table 8. Aviation Synthetic Ester Lubricants Market – Volume Forecast, 2025–2031 (Tons) –by Product Type

Table 9. Aviation Synthetic Ester Lubricants Market – Revenue, 2021–2024 (US\$ Million) – by Product Type

Table 10. Aviation Synthetic Ester Lubricants Market – Revenue Forecast, 2025–2031 (US\$Million) – by Product Type

Table 11. Aviation Synthetic Ester Lubricants Market – Volume, 2021–2024 (Tons) – by End Use

Table 12. Aviation Synthetic Ester Lubricants Market – Volume Forecast, 2025–2031 (Tons) –by End Use

Table 13. Aviation Synthetic Ester Lubricants Market – Revenue, 2021–2024 (US\$ Million) – by End Use

Table 14. Aviation Synthetic Ester Lubricants Market – Revenue Forecast, 2025–2031 (US\$Million) – by End Use

Table 15. North America: Aviation Synthetic Ester Lubricants Market – Volume, 2021–2024 (Tons) – by Product Type

Table 16. North America: Aviation Synthetic Ester Lubricants Market – Volume Forecast, 2025–2031 (Tons) – by Product Type

Table 17. North America: Aviation Synthetic Ester Lubricants Market – Revenue, 2021–2024 (US\$ Million) – by Product Type

Table 18. North America: Aviation Synthetic Ester Lubricants Market – Revenue Forecast, 2025–2031 (US\$ Million) – by Product Type

Table 19. North America: Aviation Synthetic Ester Lubricants Market – Volume, 2021–2024 (Tons) – by End Use

Table 20. North America: Aviation Synthetic Ester Lubricants Market – Volume

Forecast, 2025–2031 (Tons) – by End Use

Table 21. North America: Aviation Synthetic Ester Lubricants Market – Revenue, 2021–2024 (US\$ Million) – by End Use

Table 22. North America: Aviation Synthetic Ester Lubricants Market – Revenue Forecast, 2025–2031 (US\$ Million) – by End Use

Table 23. North America: Aviation Synthetic Ester Lubricants Market – Volume, 2021–2024 (Tons) – by Country

Table 24. North America: Aviation Synthetic Ester Lubricants Market – Volume Forecast, 2025–2031 (Tons) – by Country

Table 25. North America: Aviation Synthetic Ester Lubricants Market – Revenue, 2021–2024 (US\$ Million) – by Country

Table 26. North America: Aviation Synthetic Ester Lubricants Market – Revenue Forecast, 2025–2031 (US\$ Million) – by Country

Table 27. United States: Aviation Synthetic Ester Lubricants Market – Volume, 2021–2024 (Tons) – by Product Type

Table 28. United States: Aviation Synthetic Ester Lubricants Market – Volume Forecast, 2025–2031 (Tons) – by Product Type

Table 29. United States: Aviation Synthetic Ester Lubricants Market – Revenue, 2021–2024 (US\$ Million) – by Product Type

Table 30. United States: Aviation Synthetic Ester Lubricants Market – Revenue Forecast, 2025–2031 (US\$ Million) – by Product Type

Table 31. United States: Aviation Synthetic Ester Lubricants Market – Volume, 2021–2024 (Tons) – by End Use

Table 32. United States: Aviation Synthetic Ester Lubricants Market – Volume Forecast, 2025–2031 (Tons) – by End Use

Table 33. United States: Aviation Synthetic Ester Lubricants Market – Revenue, 2021–2024 (US\$ Million) – by End Use

Table 34. United States: Aviation Synthetic Ester Lubricants Market – Revenue Forecast, 2025–2031 (US\$ Million) – by End Use

Table 35. Canada: Aviation Synthetic Ester Lubricants Market – Volume, 2021–2024 (Tons) – by Product Type

Table 36. Canada: Aviation Synthetic Ester Lubricants Market – Volume Forecast, 2025–2031 (Tons) – by Product Type

Table 37. Canada: Aviation Synthetic Ester Lubricants Market – Revenue, 2021–2024 (US\$ Million) – by Product Type

Table 38. Canada: Aviation Synthetic Ester Lubricants Market – Revenue Forecast, 2025–2031 (US\$ Million) – by Product Type

Table 39. Canada: Aviation Synthetic Ester Lubricants Market – Volume, 2021–2024 (Tons) – by End Use

Table 40. Canada: Aviation Synthetic Ester Lubricants Market – Volume Forecast, 2025–2031 (Tons) – by End Use

Table 41. Canada: Aviation Synthetic Ester Lubricants Market – Revenue, 2021–2024 (US\$ Million) – by End Use

Table 42. Canada: Aviation Synthetic Ester Lubricants Market – Revenue Forecast, 2025–2031 (US\$ Million) – by End Use

Table 43. Mexico: Aviation Synthetic Ester Lubricants Market –Volume, 2021–2024 (Tons) – by Product Type

Table 44. Mexico: Aviation Synthetic Ester Lubricants Market – Volume Forecast, 2025–2031 (Tons) – by Product Type

Table 45. Mexico: Aviation Synthetic Ester Lubricants Market – Revenue, 2021–2024 (US\$ Million) – by Product Type

Table 46. Mexico: Aviation Synthetic Ester Lubricants Market – Revenue Forecast, 2025–2031 (US\$ Million) – by Product Type

Table 47. Mexico: Aviation Synthetic Ester Lubricants Market –Volume, 2021–2024 (Tons) – by End Use

Table 48. Mexico: Aviation Synthetic Ester Lubricants Market – Volume Forecast, 2025–2031 (Tons) – by End Use

Table 49. Mexico: Aviation Synthetic Ester Lubricants Market – Revenue, 2021–2024 (US\$ Million) – by End Use

Table 50. Mexico: Aviation Synthetic Ester Lubricants Market – Revenue Forecast, 2025–2031 (US\$ Million) – by End Use

Table 51. Europe: Aviation Synthetic Ester Lubricants Market – Volume, 2021–2024 (Tons) – by Product Type

Table 52. Europe: Aviation Synthetic Ester Lubricants Market – Volume Forecast, 2025–2031 (Tons) – by Product Type

Table 53. Europe: Aviation Synthetic Ester Lubricants Market – Revenue, 2021–2024 (US\$ Million) – by Product Type

Table 54. Europe: Aviation Synthetic Ester Lubricants Market – Revenue Forecast, 2025–2031 (US\$ Million) – by Product Type

Table 55. Europe: Aviation Synthetic Ester Lubricants Market – Volume, 2021–2024 (Tons) – by End Use

Table 56. Europe: Aviation Synthetic Ester Lubricants Market – Volume Forecast, 2025–2031 (Tons) – by End Use

Table 57. Europe: Aviation Synthetic Ester Lubricants Market – Revenue, 2021–2024 (US\$ Million) – by End Use

Table 58. Europe: Aviation Synthetic Ester Lubricants Market – Revenue Forecast, 2025–2031 (US\$ Million) – by End Use

Table 59. Europe: Aviation Synthetic Ester Lubricants Market – Volume, 2021–2024

(Tons) – by Country

Table 60. Europe: Aviation Synthetic Ester Lubricants Market – Volume Forecast, 2025–2031 (Tons) – by Country

Table 61. Europe: Aviation Synthetic Ester Lubricants Market – Revenue, 2021–2024 (US\$ Million) – by Country

Table 62. Europe: Aviation Synthetic Ester Lubricants Market – Revenue Forecast, 2025–2031 (US\$ Million) – by Country

Table 63. Germany: Aviation Synthetic Ester Lubricants Market – Volume, 2021–2024 (Tons) – by Product Type

Table 64. Germany: Aviation Synthetic Ester Lubricants Market – Volume Forecast, 2025–2031 (Tons) – by Product Type

Table 65. Germany: Aviation Synthetic Ester Lubricants Market – Revenue, 2021–2024 (US\$ Million) – by Product Type

Table 66. Germany: Aviation Synthetic Ester Lubricants Market – Revenue Forecast, 2025–2031 (US\$ Million) – by Product Type

Table 67. Germany: Aviation Synthetic Ester Lubricants Market – Volume, 2021–2024 (Tons) – by End Use

Table 68. Germany: Aviation Synthetic Ester Lubricants Market – Volume Forecast, 2025–2031 (Tons) – by End Use

Table 69. Germany: Aviation Synthetic Ester Lubricants Market – Revenue, 2021–2024 (US\$ Million) – by End Use

Table 70. Germany: Aviation Synthetic Ester Lubricants Market – Revenue Forecast, 2025–2031 (US\$ Million) – by End Use

Table 71. France: Aviation Synthetic Ester Lubricants Market – Volume, 2021–2024 (Tons) – by Product Type

Table 72. France: Aviation Synthetic Ester Lubricants Market – Volume Forecast, 2025–2031 (Tons) – by Product Type

Table 73. France: Aviation Synthetic Ester Lubricants Market – Revenue, 2021–2024 (US\$ Million) – by Product Type

Table 74. France: Aviation Synthetic Ester Lubricants Market – Revenue Forecast, 2025–2031 (US\$ Million) – by Product Type

Table 75. France: Aviation Synthetic Ester Lubricants Market – Volume, 2021–2024 (Tons) – by End Use

Table 76. France: Aviation Synthetic Ester Lubricants Market – Volume Forecast, 2025–2031 (Tons) – by End Use

Table 77. France: Aviation Synthetic Ester Lubricants Market – Revenue, 2021–2024 (US\$ Million) – by End Use

Table 78. France: Aviation Synthetic Ester Lubricants Market – Revenue Forecast, 2025–2031 (US\$ Million) – by End Use

Table 79. Italy: Aviation Synthetic Ester Lubricants Market –Volume, 2021–2024 (Tons)  
– by Product Type

Table 80. Italy: Aviation Synthetic Ester Lubricants Market – Volume Forecast,  
2025–2031 (Tons) – by Product Type

Table 81. Italy: Aviation Synthetic Ester Lubricants Market – Revenue, 2021–2024 (US\$  
Million) – by Product Type

Table 82. Italy: Aviation Synthetic Ester Lubricants Market – Revenue Forecast,  
2025–2031 (US\$ Million) – by Product Type

Table 83. Italy: Aviation Synthetic Ester Lubricants Market –Volume, 2021–2024 (Tons)  
– by End Use

Table 84. Italy: Aviation Synthetic Ester Lubricants Market – Volume Forecast,  
2025–2031 (Tons) – by End Use

Table 85. Italy: Aviation Synthetic Ester Lubricants Market – Revenue, 2021–2024 (US\$  
Million) – by End Use

Table 86. Italy: Aviation Synthetic Ester Lubricants Market – Revenue Forecast,  
2025–2031 (US\$ Million) – by End Use

Table 87. United Kingdom: Aviation Synthetic Ester Lubricants Market –Volume,  
2021–2024 (Tons) – by Product Type

Table 88. United Kingdom: Aviation Synthetic Ester Lubricants Market – Volume  
Forecast, 2025–2031 (Tons) – by Product Type

Table 89. United Kingdom: Aviation Synthetic Ester Lubricants Market – Revenue,  
2021–2024 (US\$ Million) – by Product Type

Table 90. United Kingdom: Aviation Synthetic Ester Lubricants Market – Revenue  
Forecast, 2025–2031 (US\$ Million) – by Product Type

Table 91. United Kingdom: Aviation Synthetic Ester Lubricants Market –Volume,  
2021–2024 (Tons) – by End Use

Table 92. United Kingdom: Aviation Synthetic Ester Lubricants Market – Volume  
Forecast, 2025–2031 (Tons) – by End Use

Table 93. United Kingdom: Aviation Synthetic Ester Lubricants Market – Revenue,  
2021–2024 (US\$ Million) – by End Use

Table 94. United Kingdom: Aviation Synthetic Ester Lubricants Market – Revenue  
Forecast, 2025–2031 (US\$ Million) – by End Use

Table 95. Russia: Aviation Synthetic Ester Lubricants Market –Volume, 2021–2024  
(Tons) – by Product Type

Table 96. Russia: Aviation Synthetic Ester Lubricants Market – Volume Forecast,  
2025–2031 (Tons) – by Product Type

Table 97. Russia: Aviation Synthetic Ester Lubricants Market – Revenue, 2021–2024  
(US\$ Million) – by Product Type

Table 98. Russia: Aviation Synthetic Ester Lubricants Market – Revenue Forecast,

2025–2031 (US\$ Million) – by Product Type

Table 99. Russia: Aviation Synthetic Ester Lubricants Market –Volume, 2021–2024 (Tons) – by End Use

Table 100. Russia: Aviation Synthetic Ester Lubricants Market – Volume Forecast, 2025–2031 (Tons) – by End Use

Table 101. Russia: Aviation Synthetic Ester Lubricants Market – Revenue, 2021–2024 (US\$ Million) – by End Use

Table 102. Russia: Aviation Synthetic Ester Lubricants Market – Revenue Forecast, 2025–2031 (US\$ Million) – by End Use

Table 103. Rest of Europe: Aviation Synthetic Ester Lubricants Market –Volume, 2021–2024 (Tons) – by Product Type

Table 104. Rest of Europe: Aviation Synthetic Ester Lubricants Market – Volume Forecast, 2025–2031 (Tons) – by Product Type

Table 105. Rest of Europe: Aviation Synthetic Ester Lubricants Market – Revenue, 2021–2024 (US\$ Million) – by Product Type

Table 106. Rest of Europe: Aviation Synthetic Ester Lubricants Market – Revenue Forecast, 2025–2031 (US\$ Million) – by Product Type

Table 107. Rest of Europe: Aviation Synthetic Ester Lubricants Market –Volume, 2021–2024 (Tons) – by End Use

Table 108. Rest of Europe: Aviation Synthetic Ester Lubricants Market – Volume Forecast, 2025–2031 (Tons) – by End Use

Table 109. Rest of Europe: Aviation Synthetic Ester Lubricants Market – Revenue, 2021–2024 (US\$ Million) – by End Use

Table 110. Rest of Europe: Aviation Synthetic Ester Lubricants Market – Revenue Forecast, 2025–2031 (US\$ Million) – by End Use

Table 111. Asia Pacific: Aviation Synthetic Ester Lubricants Market – Volume, 2021–2024 (Tons) – by Product Type

Table 112. Asia Pacific: Aviation Synthetic Ester Lubricants Market – Volume Forecast, 2025–2031 (Tons) – by Product Type

Table 113. Asia Pacific: Aviation Synthetic Ester Lubricants Market – Revenue, 2021–2024 (US\$ Million) – by Product Type

Table 114. Asia Pacific: Aviation Synthetic Ester Lubricants Market – Revenue Forecast, 2025–2031 (US\$ Million) – by Product Type

Table 115. Asia Pacific: Aviation Synthetic Ester Lubricants Market – Volume, 2021–2024 (Tons) – by End Use

Table 116. Asia Pacific: Aviation Synthetic Ester Lubricants Market – Volume Forecast, 2025–2031 (Tons) – by End Use

Table 117. Asia Pacific: Aviation Synthetic Ester Lubricants Market – Revenue, 2021–2024 (US\$ Million) – by End Use

Table 118. Asia Pacific: Aviation Synthetic Ester Lubricants Market – Revenue Forecast, 2025–2031 (US\$ Million) – by End Use

Table 119. Asia Pacific: Aviation Synthetic Ester Lubricants Market – Volume, 2021–2024 (Tons) – by Country

Table 120. Asia Pacific: Aviation Synthetic Ester Lubricants Market – Volume Forecast, 2025–2031 (Tons) – by Country

Table 121. Asia Pacific: Aviation Synthetic Ester Lubricants Market – Revenue, 2021–2024 (US\$ Million) – by Country

Table 122. Asia Pacific: Aviation Synthetic Ester Lubricants Market – Revenue Forecast, 2025–2031 (US\$ Million) – by Country

Table 123. Australia: Aviation Synthetic Ester Lubricants Market – Volume, 2021–2024 (Tons) – by Product Type

Table 124. Australia: Aviation Synthetic Ester Lubricants Market – Volume Forecast, 2025–2031 (Tons) – by Product Type

Table 125. Australia: Aviation Synthetic Ester Lubricants Market – Revenue, 2021–2024 (US\$ Million) – by Product Type

Table 126. Australia: Aviation Synthetic Ester Lubricants Market – Revenue Forecast, 2025–2031 (US\$ Million) – by Product Type

Table 127. Australia: Aviation Synthetic Ester Lubricants Market – Volume, 2021–2024 (Tons) – by End Use

Table 128. Australia: Aviation Synthetic Ester Lubricants Market – Volume Forecast, 2025–2031 (Tons) – by End Use

Table 129. Australia: Aviation Synthetic Ester Lubricants Market – Revenue, 2021–2024 (US\$ Million) – by End Use

Table 130. Australia: Aviation Synthetic Ester Lubricants Market – Revenue Forecast, 2025–2031 (US\$ Million) – by End Use

Table 131. China: Aviation Synthetic Ester Lubricants Market – Volume, 2021–2024 (Tons) – by Product Type

Table 132. China: Aviation Synthetic Ester Lubricants Market – Volume Forecast, 2025–2031 (Tons) – by Product Type

Table 133. China: Aviation Synthetic Ester Lubricants Market – Revenue, 2021–2024 (US\$ Million) – by Product Type

Table 134. China: Aviation Synthetic Ester Lubricants Market – Revenue Forecast, 2025–2031 (US\$ Million) – by Product Type

Table 135. China: Aviation Synthetic Ester Lubricants Market – Volume, 2021–2024 (Tons) – by End Use

Table 136. China: Aviation Synthetic Ester Lubricants Market – Volume Forecast, 2025–2031 (Tons) – by End Use

Table 137. China: Aviation Synthetic Ester Lubricants Market – Revenue, 2021–2024

(US\$ Million) – by End Use

Table 138. China: Aviation Synthetic Ester Lubricants Market – Revenue Forecast, 2025–2031 (US\$ Million) – by End Use

Table 139. India: Aviation Synthetic Ester Lubricants Market –Volume, 2021–2024 (Tons) – by Product Type

Table 140. India: Aviation Synthetic Ester Lubricants Market – Volume Forecast, 2025–2031 (Tons) – by Product Type

Table 141. India: Aviation Synthetic Ester Lubricants Market – Revenue, 2021–2024 (US\$ Million) – by Product Type

Table 142. India: Aviation Synthetic Ester Lubricants Market – Revenue Forecast, 2025–2031 (US\$ Million) – by Product Type

Table 143. India: Aviation Synthetic Ester Lubricants Market –Volume, 2021–2024 (Tons) – by End Use

Table 144. India: Aviation Synthetic Ester Lubricants Market – Volume Forecast, 2025–2031 (Tons) – by End Use

Table 145. India: Aviation Synthetic Ester Lubricants Market – Revenue, 2021–2024 (US\$ Million) – by End Use

Table 146. India: Aviation Synthetic Ester Lubricants Market – Revenue Forecast, 2025–2031 (US\$ Million) – by End Use

Table 147. Japan: Aviation Synthetic Ester Lubricants Market –Volume, 2021–2024 (Tons) – by Product Type

Table 148. Japan: Aviation Synthetic Ester Lubricants Market – Volume Forecast, 2025–2031 (Tons) – by Product Type

Table 149. Japan: Aviation Synthetic Ester Lubricants Market – Revenue, 2021–2024 (US\$ Million) – by Product Type

Table 150. Japan: Aviation Synthetic Ester Lubricants Market – Revenue Forecast, 2025–2031 (US\$ Million) – by Product Type

Table 151. Japan: Aviation Synthetic Ester Lubricants Market –Volume, 2021–2024 (Tons) – by End Use

Table 152. Japan: Aviation Synthetic Ester Lubricants Market – Volume Forecast, 2025–2031 (Tons) – by End Use

Table 153. Japan: Aviation Synthetic Ester Lubricants Market – Revenue, 2021–2024 (US\$ Million) – by End Use

Table 154. Japan: Aviation Synthetic Ester Lubricants Market – Revenue Forecast, 2025–2031 (US\$ Million) – by End Use

Table 155. South Korea: Aviation Synthetic Ester Lubricants Market –Volume, 2021–2024 (Tons) – by Product Type

Table 156. South Korea: Aviation Synthetic Ester Lubricants Market – Volume Forecast, 2025–2031 (Tons) – by Product Type

Table 157. South Korea: Aviation Synthetic Ester Lubricants Market – Revenue, 2021–2024 (US\$ Million) – by Product Type

Table 158. South Korea: Aviation Synthetic Ester Lubricants Market – Revenue Forecast, 2025–2031 (US\$ Million) – by Product Type

Table 159. South Korea: Aviation Synthetic Ester Lubricants Market –Volume, 2021–2024 (Tons) – by End Use

Table 160. South Korea: Aviation Synthetic Ester Lubricants Market – Volume Forecast, 2025–2031 (Tons) – by End Use

Table 161. South Korea: Aviation Synthetic Ester Lubricants Market – Revenue, 2021–2024 (US\$ Million) – by End Use

Table 162. South Korea: Aviation Synthetic Ester Lubricants Market – Revenue Forecast, 2025–2031 (US\$ Million) – by End Use

Table 163. Rest of APAC: Aviation Synthetic Ester Lubricants Market –Volume, 2021–2024 (Tons) – by Product Type

Table 164. Rest of APAC: Aviation Synthetic Ester Lubricants Market – Volume Forecast, 2025–2031 (Tons) – by Product Type

Table 165. Rest of APAC: Aviation Synthetic Ester Lubricants Market – Revenue, 2021–2024 (US\$ Million) – by Product Type

Table 166. Rest of APAC: Aviation Synthetic Ester Lubricants Market – Revenue Forecast, 2025–2031 (US\$ Million) – by Product Type

Table 167. Rest of APAC: Aviation Synthetic Ester Lubricants Market –Volume, 2021–2024 (Tons) – by End Use

Table 168. Rest of APAC: Aviation Synthetic Ester Lubricants Market – Volume Forecast, 2025–2031 (Tons) – by End Use

Table 169. Rest of APAC: Aviation Synthetic Ester Lubricants Market – Revenue, 2021–2024 (US\$ Million) – by End Use

Table 170. Rest of APAC: Aviation Synthetic Ester Lubricants Market – Revenue Forecast, 2025–2031 (US\$ Million) – by End Use

Table 171. Middle East and Africa: Aviation Synthetic Ester Lubricants Market – Volume, 2021–2024 (Tons) – by Product Type

Table 172. Middle East and Africa: Aviation Synthetic Ester Lubricants Market – Volume Forecast, 2025–2031 (Tons) – by Product Type

Table 173. Middle East and Africa: Aviation Synthetic Ester Lubricants Market – Revenue, 2021–2024 (US\$ Million) – by Product Type

Table 174. Middle East and Africa: Aviation Synthetic Ester Lubricants Market – Revenue Forecast, 2025–2031 (US\$ Million) – by Product Type

Table 175. Middle East and Africa: Aviation Synthetic Ester Lubricants Market – Volume, 2021–2024 (Tons) – by End Use

Table 176. Middle East and Africa: Aviation Synthetic Ester Lubricants Market – Volume

Forecast, 2025–2031 (Tons) – by End Use

Table 177. Middle East and Africa: Aviation Synthetic Ester Lubricants Market – Revenue, 2021–2024 (US\$ Million) – by End Use

Table 178. Middle East and Africa: Aviation Synthetic Ester Lubricants Market – Revenue Forecast, 2025–2031 (US\$ Million) – by End Use

Table 179. Middle East and Africa: Aviation Synthetic Ester Lubricants Market – Volume, 2021–2024 (Tons) – by Country

Table 180. Middle East and Africa: Aviation Synthetic Ester Lubricants Market – Volume Forecast, 2025–2031(Tons) –by Country

Table 181. Middle East and Africa: Aviation Synthetic Ester Lubricants Market – Revenue, 2021–2024 (US\$ Million) – by Country

Table 182. Middle East and Africa: Aviation Synthetic Ester Lubricants Market – Revenue Forecast, 2025–2031 (US\$ Million) – by Country

Table 183. South Africa: Aviation Synthetic Ester Lubricants Market –Volume, 2021–2024 (Tons) – by Product Type

Table 184. South Africa: Aviation Synthetic Ester Lubricants Market – Volume Forecast, 2025–2031 (Tons) – by Product Type

Table 185. South Africa: Aviation Synthetic Ester Lubricants Market – Revenue, 2021–2024 (US\$ Million) – by Product Type

Table 186. South Africa: Aviation Synthetic Ester Lubricants Market – Revenue Forecast, 2025–2031 (US\$ Million) – by Product Type

Table 187. South Africa: Aviation Synthetic Ester Lubricants Market –Volume, 2021–2024 (Tons) – by End Use

Table 188. South Africa: Aviation Synthetic Ester Lubricants Market – Volume Forecast, 2025–2031 (Tons) – by End Use

Table 189. South Africa: Aviation Synthetic Ester Lubricants Market – Revenue, 2021–2024 (US\$ Million) – by End Use

Table 190. South Africa: Aviation Synthetic Ester Lubricants Market – Revenue Forecast, 2025–2031 (US\$ Million) – by End Use

Table 191. Saudi Arabia: Aviation Synthetic Ester Lubricants Market –Volume, 2021–2024 (Tons) – by Product Type

Table 192. Saudi Arabia: Aviation Synthetic Ester Lubricants Market – Volume Forecast, 2025–2031 (Tons) – by Product Type

Table 193. Saudi Arabia: Aviation Synthetic Ester Lubricants Market – Revenue, 2021–2024 (US\$ Million) – by Product Type

Table 194. Saudi Arabia: Aviation Synthetic Ester Lubricants Market – Revenue Forecast, 2025–2031 (US\$ Million) – by Product Type

Table 195. Saudi Arabia: Aviation Synthetic Ester Lubricants Market –Volume, 2021–2024 (Tons) – by End Use

Table 196. Saudi Arabia: Aviation Synthetic Ester Lubricants Market – Volume Forecast, 2025–2031 (Tons) – by End Use

Table 197. Saudi Arabia: Aviation Synthetic Ester Lubricants Market – Revenue, 2021–2024 (US\$ Million) – by End Use

Table 198. Saudi Arabia: Aviation Synthetic Ester Lubricants Market – Revenue Forecast, 2025–2031 (US\$ Million) – by End Use

Table 199. United Arab Emirates: Aviation Synthetic Ester Lubricants Market –Volume, 2021–2024 (Tons) – by Product Type

Table 200. United Arab Emirates: Aviation Synthetic Ester Lubricants Market – Volume Forecast, 2025–2031 (Tons) – by Product Type

Table 201. United Arab Emirates: Aviation Synthetic Ester Lubricants Market – Revenue, 2021–2024 (US\$ Million) – by Product Type

Table 202. United Arab Emirates: Aviation Synthetic Ester Lubricants Market – Revenue Forecast, 2025–2031 (US\$ Million) – by Product Type

Table 203. United Arab Emirates: Aviation Synthetic Ester Lubricants Market –Volume, 2021–2024 (Tons) – by End Use

Table 204. United Arab Emirates: Aviation Synthetic Ester Lubricants Market – Volume Forecast, 2025–2031 (Tons) – by End Use

Table 205. United Arab Emirates: Aviation Synthetic Ester Lubricants Market – Revenue, 2021–2024 (US\$ Million) – by End Use

Table 206. United Arab Emirates: Aviation Synthetic Ester Lubricants Market – Revenue Forecast, 2025–2031 (US\$ Million) – by End Use

Table 207. Rest of Middle East and Africa: Aviation Synthetic Ester Lubricants Market –Volume, 2021–2024 (Tons) – by Product Type

Table 208. Rest of Middle East and Africa: Aviation Synthetic Ester Lubricants Market – Volume Forecast, 2025–2031 (Tons) – by Product Type

Table 209. Rest of Middle East and Africa: Aviation Synthetic Ester Lubricants Market – Revenue, 2021–2024 (US\$ Million) – by Product Type

Table 210. Rest of Middle East and Africa: Aviation Synthetic Ester Lubricants Market – Revenue Forecast, 2025–2031 (US\$ Million) – by Product Type

Table 211. Rest of Middle East and Africa: Aviation Synthetic Ester Lubricants Market –Volume, 2021–2024 (Tons) – by End Use

Table 212. Rest of Middle East and Africa: Aviation Synthetic Ester Lubricants Market – Volume Forecast, 2025–2031 (Tons) – by End Use

Table 213. Rest of Middle East and Africa: Aviation Synthetic Ester Lubricants Market – Revenue, 2021–2024 (US\$ Million) – by End Use

Table 214. Rest of Middle East and Africa: Aviation Synthetic Ester Lubricants Market – Revenue Forecast, 2025–2031 (US\$ Million) – by End Use

Table 215. South and Central America: Aviation Synthetic Ester Lubricants Market –

Volume, 2021–2024 (Tons) – by Product Type

Table 216. South and Central America: Aviation Synthetic Ester Lubricants Market – Volume Forecast, 2025–2031 (Tons) – by Product Type

Table 217. South and Central America: Aviation Synthetic Ester Lubricants Market – Revenue, 2021–2024 (US\$ Million) – by Product Type

Table 218. South and Central America: Aviation Synthetic Ester Lubricants Market – Revenue Forecast, 2025–2031 (US\$ Million) – by Product Type

Table 219. South and Central America: Aviation Synthetic Ester Lubricants Market – Volume, 2021–2024 (Tons) – by End Use

Table 220. South and Central America: Aviation Synthetic Ester Lubricants Market – Volume Forecast, 2025–2031 (Tons) – by End Use

Table 221. South and Central America: Aviation Synthetic Ester Lubricants Market – Revenue, 2021–2024 (US\$ Million) – by End Use

Table 222. South and Central America: Aviation Synthetic Ester Lubricants Market – Revenue Forecast, 2025–2031 (US\$ Million) – by End Use

Table 223. South and Central America: Aviation Synthetic Ester Lubricants Market – Volume, 2021–2024 (Tons) – by Country

Table 224. South and Central America: Aviation Synthetic Ester Lubricants Market – Volume Forecast, 2025–2031 (Tons) – by Country

Table 225. South and Central America: Aviation Synthetic Ester Lubricants Market – Revenue, 2021–2024 (US\$ Million) – by Country

Table 226. South and Central America: Aviation Synthetic Ester Lubricants Market – Revenue Forecast, 2025–2031 (US\$ Million) – by Country

Table 227. Brazil: Aviation Synthetic Ester Lubricants Market – Volume, 2021–2024 (Tons) – by Product Type

Table 228. Brazil: Aviation Synthetic Ester Lubricants Market – Volume Forecast, 2025–2031 (Tons) – by Product Type

Table 229. Brazil: Aviation Synthetic Ester Lubricants Market – Revenue, 2021–2024 (US\$ Million) – by Product Type

Table 230. Brazil: Aviation Synthetic Ester Lubricants Market – Revenue Forecast, 2025–2031 (US\$ Million) – by Product Type

Table 231. Brazil: Aviation Synthetic Ester Lubricants Market – Volume, 2021–2024 (Tons) – by End Use

Table 232. Brazil: Aviation Synthetic Ester Lubricants Market – Volume Forecast, 2025–2031 (Tons) – by End Use

Table 233. Brazil: Aviation Synthetic Ester Lubricants Market – Revenue, 2021–2024 (US\$ Million) – by End Use

Table 234. Brazil: Aviation Synthetic Ester Lubricants Market – Revenue Forecast, 2025–2031 (US\$ Million) – by End Use

Table 235. Argentina: Aviation Synthetic Ester Lubricants Market –Volume, 2021–2024 (Tons) – by Product Type

Table 236. Argentina: Aviation Synthetic Ester Lubricants Market – Volume Forecast, 2025–2031 (Tons) – by Product Type

Table 237. Argentina: Aviation Synthetic Ester Lubricants Market – Revenue, 2021–2024 (US\$ Million) – by Product Type

Table 238. Argentina: Aviation Synthetic Ester Lubricants Market – Revenue Forecast, 2025–2031 (US\$ Million) – by Product Type

Table 239. Argentina: Aviation Synthetic Ester Lubricants Market –Volume, 2021–2024 (Tons) – by End Use

Table 240. Argentina: Aviation Synthetic Ester Lubricants Market – Volume Forecast, 2025–2031 (Tons) – by End Use

Table 241. Argentina: Aviation Synthetic Ester Lubricants Market – Revenue, 2021–2024 (US\$ Million) – by End Use

Table 242. Argentina: Aviation Synthetic Ester Lubricants Market – Revenue Forecast, 2025–2031 (US\$ Million) – by End Use

Table 243. Rest of South and Central America: Aviation Synthetic Ester Lubricants Market –Volume, 2021–2024 (Tons) – by Product Type

Table 244. Rest of South and Central America: Aviation Synthetic Ester Lubricants Market – Volume Forecast, 2025–2031 (Tons) – by Product Type

Table 245. Rest of South and Central America: Aviation Synthetic Ester Lubricants Market – Revenue, 2021–2024 (US\$ Million) – by Product Type

Table 246. Rest of South and Central America: Aviation Synthetic Ester Lubricants Market – Revenue Forecast, 2025–2031 (US\$ Million) – by Product Type

Table 247. Rest of South and Central America: Aviation Synthetic Ester Lubricants Market –Volume, 2021–2024 (Tons) – by End Use

Table 248. Rest of South and Central America: Aviation Synthetic Ester Lubricants Market – Volume Forecast, 2025–2031 (Tons) – by End Use

Table 249. Rest of South and Central America: Aviation Synthetic Ester Lubricants Market – Revenue, 2021–2024 (US\$ Million) – by End Use

Table 250. Rest of South and Central America: Aviation Synthetic Ester Lubricants Market – Revenue Forecast, 2025–2031 (US\$ Million) – by End Use

Table 251. Heat Map Analysis by Key Players

Table 252. List of Abbreviations

## List Of Figures

### LIST OF FIGURES

Figure 1. Aviation Synthetic Ester Lubricants Market Segmentation, by Geography

Figure 2. Porter's Five Forces Analysis

Figure 3. Aviation Synthetic Ester Lubricants Market Volume (Tons), 2021–2031

Figure 4. Aviation Synthetic Ester Lubricants Market Revenue and Forecast (US\$ Million), 2021–2031

Figure 5. Aviation Synthetic Ester Lubricants Market Share (%) – Product Type, 2024 and 2031

Figure 6. Engine Oil: Aviation Synthetic Ester Lubricants Market – Volume and Forecast to 2031 (Tons)

Figure 7. Engine Oil: Aviation Synthetic Ester Lubricants Market – Revenue and Forecast to 2031 (US\$ Million)

Figure 8. Hydraulic Oil: Aviation Synthetic Ester Lubricants Market – Volume and Forecast to 2031 (Tons)

Figure 9. Hydraulic Oil: Aviation Synthetic Ester Lubricants Market – Revenue and Forecast to 2031 (US\$ Million)

Figure 10. Gear Oil: Aviation Synthetic Ester Lubricants Market – Volume and Forecast to 2031 (Tons)

Figure 11. Gear Oil: Aviation Synthetic Ester Lubricants Market – Revenue and Forecast to 2031 (US\$ Million)

Figure 12. Transformer Oil: Aviation Synthetic Ester Lubricants Market – Volume and Forecast to 2031 (Tons)

Figure 13. Transformer Oil: Aviation Synthetic Ester Lubricants Market – Revenue and Forecast to 2031 (US\$ Million)

Figure 14. Refrigeration Oil: Aviation Synthetic Ester Lubricants Market – Volume and Forecast to 2031 (Tons)

Figure 15. Refrigeration Oil: Aviation Synthetic Ester Lubricants Market – Revenue and Forecast to 2031 (US\$ Million)

Figure 16. Grease: Aviation Synthetic Ester Lubricants Market – Volume and Forecast to 2031 (Tons)

Figure 17. Grease: Aviation Synthetic Ester Lubricants Market – Revenue and Forecast to 2031 (US\$ Million)

Figure 18. Turbine Oil: Aviation Synthetic Ester Lubricants Market – Volume and Forecast to 2031 (Tons)

Figure 19. Turbine Oil: Aviation Synthetic Ester Lubricants Market – Revenue and

Forecast to2031 (US\$ Million)

Figure 20. Metalworking Fluids: Aviation Synthetic Ester Lubricants Market – Volume and Forecast to 2031(Tons)

Figure 21. Metalworking Fluids: Aviation Synthetic Ester Lubricants Market – Revenue and Forecast to2031 (US\$ Million)

Figure 22. Others: Aviation Synthetic Ester Lubricants Market – Volume and Forecast to 2031(Tons)

Figure 23. Others: Aviation Synthetic Ester Lubricants Market – Revenue and Forecast to2031 (US\$ Million)

Figure 24. Aviation Synthetic Ester Lubricants Market Share (%) – End Use, 2024 and 2031

Figure 25. Commercial Aircraft: Aviation Synthetic Ester Lubricants Market – Volume and Forecast to 2031(Tons)

Figure 26. Commercial Aircraft: Aviation Synthetic Ester Lubricants Market – Revenue and Forecast to2031 (US\$ Million)

Figure 27. Military Aircraft: Aviation Synthetic Ester Lubricants Market – Volume and Forecast to 2031(Tons)

Figure 28. Military Aircraft: Aviation Synthetic Ester Lubricants Market – Revenue and Forecast to2031 (US\$ Million)

Figure 29. Spacecraft or Satellites: Aviation Synthetic Ester Lubricants Market – Volume and Forecast to 2031(Tons)

Figure 30. Spacecraft or Satellites: Aviation Synthetic Ester Lubricants Market – Revenue and Forecast to2031 (US\$ Million)

Figure 31. Drone and UAV: Aviation Synthetic Ester Lubricants Market – Volume and Forecast to 2031(Tons)

Figure 32. Drone and UAV: Aviation Synthetic Ester Lubricants Market – Revenue and Forecast to2031 (US\$ Million)

Figure 33. Others: Aviation Synthetic Ester Lubricants Market – Volume and Forecast to 2031(Tons)

Figure 34. Others: Aviation Synthetic Ester Lubricants Market – Revenue and Forecast to2031 (US\$ Million)

Figure 35. Aviation Synthetic Ester Lubricants Market Breakdown by Region, 2024 and 2031 (%)

Figure 36. North America: Aviation Synthetic Ester Lubricants Market – Volume and Forecast, 2021–2031(Tons)

Figure 37. North America: Aviation Synthetic Ester Lubricants Market – Revenue and Forecast, 2021–2031 (US\$ Million)

Figure 38. North America: Aviation Synthetic Ester Lubricants Market Breakdown, by Product Type (2024 and 2031)

Figure 39. North America: Aviation Synthetic Ester Lubricants Market Breakdown, by End Use (2024 and 2031)

Figure 40. North America: Aviation Synthetic Ester Lubricants Market Breakdown, by Key Countries, 2024 and 2031 (%)

Figure 41. United States: Aviation Synthetic Ester Lubricants Market – Revenue and Forecast to 2031 (US\$ Million)

Figure 42. Canada: Aviation Synthetic Ester Lubricants Market – Revenue and Forecast to 2031 (US\$ Million)

Figure 43. Mexico: Aviation Synthetic Ester Lubricants Market – Revenue and Forecast to 2031 (US\$ Million)

Figure 44. Europe: Aviation Synthetic Ester Lubricants Market – Volume and Forecast, 2021–2031(Tons)

Figure 45. Europe: Aviation Synthetic Ester Lubricants Market – Revenue and Forecast, 2021–2031 (US\$ Million)

Figure 46. Europe: Aviation Synthetic Ester Lubricants Market Breakdown, by Product Type (2024 and 2031)

Figure 47. Europe: Aviation Synthetic Ester Lubricants Market Breakdown, by End Use (2024 and 2031)

Figure 48. Europe: Aviation Synthetic Ester Lubricants Market Breakdown, by Key Countries, 2024 and 2031 (%)

Figure 49. Germany: Aviation Synthetic Ester Lubricants Market – Revenue and Forecast to 2031 (US\$ Million)

Figure 50. France: Aviation Synthetic Ester Lubricants Market – Revenue and Forecast to 2031 (US\$ Million)

Figure 51. Italy: Aviation Synthetic Ester Lubricants Market – Revenue and Forecast to 2031 (US\$ Million)

Figure 52. United Kingdom: Aviation Synthetic Ester Lubricants Market – Revenue and Forecast to 2031 (US\$ Million)

Figure 53. Russia: Aviation Synthetic Ester Lubricants Market – Revenue and Forecast to 2031 (US\$ Million)

Figure 54. Rest of Europe: Aviation Synthetic Ester Lubricants Market – Revenue and Forecast to 2031 (US\$ Million)

Figure 55. Asia Pacific: Aviation Synthetic Ester Lubricants Market – Volume and Forecast, 2021–2031(Tons)

Figure 56. Asia Pacific: Aviation Synthetic Ester Lubricants Market – Revenue and Forecast, 2021–2031 (US\$ Million)

Figure 57. Asia Pacific: Aviation Synthetic Ester Lubricants Market Breakdown, by Product Type (2024 and 2031)

Figure 58. Asia Pacific: Aviation Synthetic Ester Lubricants Market Breakdown, by End

Use (2024 and 2031)

Figure 59. Asia Pacific: Aviation Synthetic Ester Lubricants Market Breakdown, by Key Countries, 2024 and 2031 (%)

Figure 60. Australia: Aviation Synthetic Ester Lubricants Market – Revenue and Forecast to 2031 (US\$ Million)

Figure 61. China: Aviation Synthetic Ester Lubricants Market – Revenue and Forecast to 2031 (US\$ Million)

Figure 62. India: Aviation Synthetic Ester Lubricants Market – Revenue and Forecast to 2031 (US\$ Million)

Figure 63. Japan: Aviation Synthetic Ester Lubricants Market – Revenue and Forecast to 2031 (US\$ Million)

Figure 64. South Korea: Aviation Synthetic Ester Lubricants Market – Revenue and Forecast to 2031 (US\$ Million)

Figure 65. Rest of APAC: Aviation Synthetic Ester Lubricants Market – Revenue and Forecast to 2031 (US\$ Million)

Figure 66. Middle East and Africa: Aviation Synthetic Ester Lubricants Market – Volume and Forecast, 2021–2031(Tons)

Figure 67. Middle East and Africa: Aviation Synthetic Ester Lubricants Market – Revenue and Forecast, 2021–2031 (US\$ Million)

Figure 68. Middle East and Africa: Aviation Synthetic Ester Lubricants Market Breakdown, by Product Type (2024 and 2031)

Figure 69. Middle East and Africa: Aviation Synthetic Ester Lubricants Market Breakdown, by End Use (2024 and 2031)

Figure 70. Middle East and Africa: Aviation Synthetic Ester Lubricants Market Breakdown, by Key Countries, 2024 and 2031 (%)

Figure 71. South Africa: Aviation Synthetic Ester Lubricants Market – Revenue and Forecast to 2031 (US\$ Million)

Figure 72. Saudi Arabia: Aviation Synthetic Ester Lubricants Market – Revenue and Forecast to 2031 (US\$ Million)

Figure 73. United Arab Emirates: Aviation Synthetic Ester Lubricants Market – Revenue and Forecast to 2031 (US\$ Million)

Figure 74. Rest of Middle East and Africa: Aviation Synthetic Ester Lubricants Market – Revenue and Forecast to 2031 (US\$ Million)

Figure 75. South and Central America: Aviation Synthetic Ester Lubricants Market – Volume and Forecast, 2021–2031(Tons)

Figure 76. South and Central America: Aviation Synthetic Ester Lubricants Market – Revenue and Forecast, 2021–2031 (US\$ Million)

Figure 77. South and Central America: Aviation Synthetic Ester Lubricants Market Breakdown, by Product Type (2024 and 2031)

Figure 78. South and Central America: Aviation Synthetic Ester Lubricants Market Breakdown, by End Use (2024 and 2031)

Figure 79. South and Central America: Aviation Synthetic Ester Lubricants Market Breakdown, by Key Countries, 2024 and 2031 (%)

Figure 80. Brazil: Aviation Synthetic Ester Lubricants Market – Revenue and Forecast to 2031 (US\$ Million)

Figure 81. Argentina: Aviation Synthetic Ester Lubricants Market – Revenue and Forecast to 2031 (US\$ Million)

Figure 82. Rest of South and Central America: Aviation Synthetic Ester Lubricants Market – Revenue and Forecast to 2031 (US\$ Million)

Figure 83. Company Market Share Analysis, 2024

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