

Global Silicone Oil Fan Clutches Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Silicone Oil Fan Clutches market size is expected to reach \$ 2171 million by 2032, rising at a market growth of 5.2% CAGR during the forecast period (2026-2032).

The silicone oil fan clutch is a cooling control component that transmits torque via the viscous shear of silicone oil and adjusts fan speed based on engine temperature; it is typically installed between the engine fan and the drive shaft. It reduces cold-start noise and energy consumption while improving heat dissipation efficiency, making it widely used in the engine cooling systems of commercial vehicles, construction machinery, agricultural machinery, off-road vehicles, and some passenger cars.

Upstream components include silicone oil, bimetallic temperature-sensing elements, bearings, housings, seals, valve plates, fan blades, aluminum alloy die-castings, and precision-machined parts; downstream applications cover commercial vehicles, construction machinery, agricultural machinery, generator sets, and the aftermarket.

The global market for silicone oil fan clutches features an average unit price of \$55, with sales volume of approximately 27 million units, an annual production capacity of 30 million units, and an industry profit margin of around 30%.

The global silicone oil fan clutch market is poised for a future characterized by the dual trends of sustained demand from the existing vehicle parc and technological upgrades. Traditional internal combustion commercial vehicles, construction machinery, agricultural equipment, and heavy-duty machinery continue to require highly reliable engine cooling systems, driving stable demand for silicone oil clutches. Simultaneously, energy conservation and emission reduction regulations are spurring product upgrades toward lower noise, lower power consumption, faster response times, and longer

service lives. Electronically controlled silicone oil fan clutches will gradually replace some mechanically controlled models, enabling more precise fan speed control and engine thermal management. Future competition will focus on sealing reliability, silicone oil stability, bearing longevity, thermal response speed, lightweight design, and vehicle integration capabilities.

This report studies the global Silicone Oil Fan Clutches production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Silicone Oil Fan Clutches and provides market size (US\$ million) and Year-over-Year (YoY) Growth, considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of Silicone Oil Fan Clutches that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Silicone Oil Fan Clutches total production and demand, 2021-2032, (K Units)

Global Silicone Oil Fan Clutches total production value, 2021-2032, (USD Million)

Global Silicone Oil Fan Clutches production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Units), (based on production site)

Global Silicone Oil Fan Clutches consumption by region & country, CAGR, 2021-2032 & (K Units)

U.S. VS China: Silicone Oil Fan Clutches domestic production, consumption, key domestic manufacturers and share

Global Silicone Oil Fan Clutches production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Units)

Global Silicone Oil Fan Clutches production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

Global Silicone Oil Fan Clutches production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

This report profiles key players in the global Silicone Oil Fan Clutches market based on the following parameters - company overview, production, value, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include BorgWarner, MAHLE, Horton, AISIN, GMB, Hayden Automotive, Dorman Products, Nissens, NRF, Diesel Technic, etc.

This report also provides key insights about market drivers, restraints, opportunities,

new product launches or approvals.

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World Silicone Oil Fan Clutches market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (K Units) and average price (US\$/Unit) by manufacturer, by Type, and by Application. Data is given for the years 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

Global Silicone Oil Fan Clutches Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Silicone Oil Fan Clutches Market, Segmentation by Type:

Mechanical Temperature Control

Electronic Control

Global Silicone Oil Fan Clutches Market, Segmentation by Voltage:

12V Electronic Viscous Fan Clutch

24V Electronic Viscous Fan Clutch

48V Electronic Viscous Fan Clutch

Global Silicone Oil Fan Clutches Market, Segmentation by Mounting Type:

Engine-Mounted Electronic Viscous Fan Clutch

Pulley-Mounted Electronic Viscous Fan Clutch

Water-Pump-Mounted Electronic Viscous Fan Clutch

Bracket-Mounted Electronic Viscous Fan Clutch

Global Silicone Oil Fan Clutches Market, Segmentation by Application:

Commercial Vehicle

Passenger Vehicle

Construction Machinery

Agricultural Machinery

Generator Set

Companies Profiled:

BorgWarner

MAHLE

Horton

AISIN

GMB

Hayden Automotive

Dorman Products

Nissens

NRF

Diesel Technic

Kit Masters

Xuelong Group

Longkou Zhongyu Thermal Management

Key Questions Answered:

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

Contents

1 SUPPLY SUMMARY

- 1.1 Silicone Oil Fan Clutches Introduction
- 1.2 World Silicone Oil Fan Clutches Supply & Forecast
 - 1.2.1 World Silicone Oil Fan Clutches Production Value (2021 & 2025 & 2032)
 - 1.2.2 World Silicone Oil Fan Clutches Production (2021-2032)
 - 1.2.3 World Silicone Oil Fan Clutches Pricing Trends (2021-2032)
- 1.3 World Silicone Oil Fan Clutches Production by Region (Based on Production Site)
 - 1.3.1 World Silicone Oil Fan Clutches Production Value by Region (2021-2032)
 - 1.3.2 World Silicone Oil Fan Clutches Production by Region (2021-2032)
 - 1.3.3 World Silicone Oil Fan Clutches Average Price by Region (2021-2032)
 - 1.3.4 North America Silicone Oil Fan Clutches Production (2021-2032)
 - 1.3.5 Europe Silicone Oil Fan Clutches Production (2021-2032)
 - 1.3.6 China Silicone Oil Fan Clutches Production (2021-2032)
 - 1.3.7 Japan Silicone Oil Fan Clutches Production (2021-2032)
- 1.4 Market Drivers, Restraints and Trends
 - 1.4.1 Silicone Oil Fan Clutches Market Drivers
 - 1.4.2 Factors Affecting Demand
 - 1.4.3 Silicone Oil Fan Clutches Major Market Trends

2 DEMAND SUMMARY

- 2.1 World Silicone Oil Fan Clutches Demand (2021-2032)
- 2.2 World Silicone Oil Fan Clutches Consumption by Region
 - 2.2.1 World Silicone Oil Fan Clutches Consumption by Region (2021-2026)
 - 2.2.2 World Silicone Oil Fan Clutches Consumption Forecast by Region (2027-2032)
- 2.3 United States Silicone Oil Fan Clutches Consumption (2021-2032)
- 2.4 China Silicone Oil Fan Clutches Consumption (2021-2032)
- 2.5 Europe Silicone Oil Fan Clutches Consumption (2021-2032)
- 2.6 Japan Silicone Oil Fan Clutches Consumption (2021-2032)
- 2.7 South Korea Silicone Oil Fan Clutches Consumption (2021-2032)
- 2.8 ASEAN Silicone Oil Fan Clutches Consumption (2021-2032)
- 2.9 India Silicone Oil Fan Clutches Consumption (2021-2032)

3 WORLD MANUFACTURERS COMPETITIVE ANALYSIS

- 3.1 World Silicone Oil Fan Clutches Production Value by Manufacturer (2021-2026)

- 3.2 World Silicone Oil Fan Clutches Production by Manufacturer (2021-2026)
- 3.3 World Silicone Oil Fan Clutches Average Price by Manufacturer (2021-2026)
- 3.4 Silicone Oil Fan Clutches Company Evaluation Quadrant
- 3.5 Industry Rank and Concentration Rate (CR)
 - 3.5.1 Global Silicone Oil Fan Clutches Industry Rank of Major Manufacturers
 - 3.5.2 Global Concentration Ratios (CR4) for Silicone Oil Fan Clutches in 2025
 - 3.5.3 Global Concentration Ratios (CR8) for Silicone Oil Fan Clutches in 2025
- 3.6 Silicone Oil Fan Clutches Market: Overall Company Footprint Analysis
 - 3.6.1 Silicone Oil Fan Clutches Market: Region Footprint
 - 3.6.2 Silicone Oil Fan Clutches Market: Company Product Type Footprint
 - 3.6.3 Silicone Oil Fan Clutches Market: Company Product Application Footprint
- 3.7 Competitive Environment
 - 3.7.1 Historical Structure of the Industry
 - 3.7.2 Barriers of Market Entry
 - 3.7.3 Factors of Competition
- 3.8 New Entrant and Capacity Expansion Plans
- 3.9 Mergers, Acquisition, Agreements, and Collaborations

4 UNITED STATES VS CHINA VS REST OF THE WORLD

- 4.1 United States VS China: Silicone Oil Fan Clutches Production Value Comparison
 - 4.1.1 United States VS China: Silicone Oil Fan Clutches Production Value Comparison (2021 & 2025 & 2032)
 - 4.1.2 United States VS China: Silicone Oil Fan Clutches Production Value Market Share Comparison (2021 & 2025 & 2032)
- 4.2 United States VS China: Silicone Oil Fan Clutches Production Comparison
 - 4.2.1 United States VS China: Silicone Oil Fan Clutches Production Comparison (2021 & 2025 & 2032)
 - 4.2.2 United States VS China: Silicone Oil Fan Clutches Production Market Share Comparison (2021 & 2025 & 2032)
- 4.3 United States VS China: Silicone Oil Fan Clutches Consumption Comparison
 - 4.3.1 United States VS China: Silicone Oil Fan Clutches Consumption Comparison (2021 & 2025 & 2032)
 - 4.3.2 United States VS China: Silicone Oil Fan Clutches Consumption Market Share Comparison (2021 & 2025 & 2032)
- 4.4 United States Based Silicone Oil Fan Clutches Manufacturers and Market Share, 2021-2026
 - 4.4.1 United States Based Silicone Oil Fan Clutches Manufacturers, Headquarters and Production Site (States, Country)

4.4.2 United States Based Manufacturers Silicone Oil Fan Clutches Production Value (2021-2026)

4.4.3 United States Based Manufacturers Silicone Oil Fan Clutches Production (2021-2026)

4.5 China Based Silicone Oil Fan Clutches Manufacturers and Market Share

4.5.1 China Based Silicone Oil Fan Clutches Manufacturers, Headquarters and Production Site (Province, Country)

4.5.2 China Based Manufacturers Silicone Oil Fan Clutches Production Value (2021-2026)

4.5.3 China Based Manufacturers Silicone Oil Fan Clutches Production (2021-2026)

4.6 Rest of World Based Silicone Oil Fan Clutches Manufacturers and Market Share, 2021-2026

4.6.1 Rest of World Based Silicone Oil Fan Clutches Manufacturers, Headquarters and Production Site (State, Country)

4.6.2 Rest of World Based Manufacturers Silicone Oil Fan Clutches Production Value (2021-2026)

4.6.3 Rest of World Based Manufacturers Silicone Oil Fan Clutches Production (2021-2026)

5 MARKET ANALYSIS BY TYPE

5.1 World Silicone Oil Fan Clutches Market Size Overview by Type: 2021 VS 2025 VS 2032

5.2 Segment Introduction by Type

5.2.1 Mechanical Temperature Control

5.2.2 Electronic Control

5.3 Market Segment by Type

5.3.1 World Silicone Oil Fan Clutches Production by Type (2021-2032)

5.3.2 World Silicone Oil Fan Clutches Production Value by Type (2021-2032)

5.3.3 World Silicone Oil Fan Clutches Average Price by Type (2021-2032)

6 MARKET ANALYSIS BY VOLTAGE

6.1 World Silicone Oil Fan Clutches Market Size Overview by Voltage: 2021 VS 2025 VS 2032

6.2 Segment Introduction by Voltage

6.2.1 12V Electronic Viscous Fan Clutch

6.2.2 24V Electronic Viscous Fan Clutch

6.2.3 48V Electronic Viscous Fan Clutch

6.3 Market Segment by Voltage

- 6.3.1 World Silicone Oil Fan Clutches Production by Voltage (2021-2032)
- 6.3.2 World Silicone Oil Fan Clutches Production Value by Voltage (2021-2032)
- 6.3.3 World Silicone Oil Fan Clutches Average Price by Voltage (2021-2032)

7 MARKET ANALYSIS BY MOUNTING TYPE

7.1 World Silicone Oil Fan Clutches Market Size Overview by Mounting Type: 2021 VS 2025 VS 2032

7.2 Segment Introduction by Mounting Type

- 7.2.1 Engine-Mounted Electronic Viscous Fan Clutch
- 7.2.2 Pulley-Mounted Electronic Viscous Fan Clutch
- 7.2.3 Water-Pump-Mounted Electronic Viscous Fan Clutch
- 7.2.4 Bracket-Mounted Electronic Viscous Fan Clutch

7.3 Market Segment by Mounting Type

- 7.3.1 World Silicone Oil Fan Clutches Production by Mounting Type (2021-2032)
- 7.3.2 World Silicone Oil Fan Clutches Production Value by Mounting Type (2021-2032)
- 7.3.3 World Silicone Oil Fan Clutches Average Price by Mounting Type (2021-2032)

8 MARKET ANALYSIS BY APPLICATION

8.1 World Silicone Oil Fan Clutches Market Size Overview by Application: 2021 VS 2025 VS 2032

8.2 Segment Introduction by Application

- 8.2.1 Commercial Vehicle
- 8.2.2 Passenger Vehicle
- 8.2.3 Construction Machinery
- 8.2.4 Agricultural Machinery
- 8.2.5 Generator Set

8.3 Market Segment by Application

- 8.3.1 World Silicone Oil Fan Clutches Production by Application (2021-2032)
- 8.3.2 World Silicone Oil Fan Clutches Production Value by Application (2021-2032)
- 8.3.3 World Silicone Oil Fan Clutches Average Price by Application (2021-2032)

9 COMPANY PROFILES

9.1 BorgWarner

- 9.1.1 BorgWarner Details
- 9.1.2 BorgWarner Major Business

- 9.1.3 BorgWarner Silicone Oil Fan Clutches Product and Services
- 9.1.4 BorgWarner Silicone Oil Fan Clutches Production, Price, Value, Gross Margin and Market Share (2021-2026)
- 9.1.5 BorgWarner Recent Developments/Updates
- 9.1.6 BorgWarner Competitive Strengths & Weaknesses
- 9.2 MAHLE
 - 9.2.1 MAHLE Details
 - 9.2.2 MAHLE Major Business
 - 9.2.3 MAHLE Silicone Oil Fan Clutches Product and Services
 - 9.2.4 MAHLE Silicone Oil Fan Clutches Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.2.5 MAHLE Recent Developments/Updates
 - 9.2.6 MAHLE Competitive Strengths & Weaknesses
- 9.3 Horton
 - 9.3.1 Horton Details
 - 9.3.2 Horton Major Business
 - 9.3.3 Horton Silicone Oil Fan Clutches Product and Services
 - 9.3.4 Horton Silicone Oil Fan Clutches Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.3.5 Horton Recent Developments/Updates
 - 9.3.6 Horton Competitive Strengths & Weaknesses
- 9.4 AISIN
 - 9.4.1 AISIN Details
 - 9.4.2 AISIN Major Business
 - 9.4.3 AISIN Silicone Oil Fan Clutches Product and Services
 - 9.4.4 AISIN Silicone Oil Fan Clutches Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.4.5 AISIN Recent Developments/Updates
 - 9.4.6 AISIN Competitive Strengths & Weaknesses
- 9.5 GMB
 - 9.5.1 GMB Details
 - 9.5.2 GMB Major Business
 - 9.5.3 GMB Silicone Oil Fan Clutches Product and Services
 - 9.5.4 GMB Silicone Oil Fan Clutches Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.5.5 GMB Recent Developments/Updates
 - 9.5.6 GMB Competitive Strengths & Weaknesses
- 9.6 Hayden Automotive
 - 9.6.1 Hayden Automotive Details

- 9.6.2 Hayden Automotive Major Business
- 9.6.3 Hayden Automotive Silicone Oil Fan Clutches Product and Services
- 9.6.4 Hayden Automotive Silicone Oil Fan Clutches Production, Price, Value, Gross Margin and Market Share (2021-2026)
- 9.6.5 Hayden Automotive Recent Developments/Updates
- 9.6.6 Hayden Automotive Competitive Strengths & Weaknesses
- 9.7 Dorman Products
 - 9.7.1 Dorman Products Details
 - 9.7.2 Dorman Products Major Business
 - 9.7.3 Dorman Products Silicone Oil Fan Clutches Product and Services
 - 9.7.4 Dorman Products Silicone Oil Fan Clutches Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.7.5 Dorman Products Recent Developments/Updates
 - 9.7.6 Dorman Products Competitive Strengths & Weaknesses
- 9.8 Nissens
 - 9.8.1 Nissens Details
 - 9.8.2 Nissens Major Business
 - 9.8.3 Nissens Silicone Oil Fan Clutches Product and Services
 - 9.8.4 Nissens Silicone Oil Fan Clutches Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.8.5 Nissens Recent Developments/Updates
 - 9.8.6 Nissens Competitive Strengths & Weaknesses
- 9.9 NRF
 - 9.9.1 NRF Details
 - 9.9.2 NRF Major Business
 - 9.9.3 NRF Silicone Oil Fan Clutches Product and Services
 - 9.9.4 NRF Silicone Oil Fan Clutches Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.9.5 NRF Recent Developments/Updates
 - 9.9.6 NRF Competitive Strengths & Weaknesses
- 9.10 Diesel Technic
 - 9.10.1 Diesel Technic Details
 - 9.10.2 Diesel Technic Major Business
 - 9.10.3 Diesel Technic Silicone Oil Fan Clutches Product and Services
 - 9.10.4 Diesel Technic Silicone Oil Fan Clutches Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.10.5 Diesel Technic Recent Developments/Updates
 - 9.10.6 Diesel Technic Competitive Strengths & Weaknesses
- 9.11 Kit Masters

- 9.11.1 Kit Masters Details
- 9.11.2 Kit Masters Major Business
- 9.11.3 Kit Masters Silicone Oil Fan Clutches Product and Services
- 9.11.4 Kit Masters Silicone Oil Fan Clutches Production, Price, Value, Gross Margin and Market Share (2021-2026)
- 9.11.5 Kit Masters Recent Developments/Updates
- 9.11.6 Kit Masters Competitive Strengths & Weaknesses
- 9.12 Xuelong Group
 - 9.12.1 Xuelong Group Details
 - 9.12.2 Xuelong Group Major Business
 - 9.12.3 Xuelong Group Silicone Oil Fan Clutches Product and Services
 - 9.12.4 Xuelong Group Silicone Oil Fan Clutches Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.12.5 Xuelong Group Recent Developments/Updates
 - 9.12.6 Xuelong Group Competitive Strengths & Weaknesses
- 9.13 Longkou Zhongyu Thermal Management
 - 9.13.1 Longkou Zhongyu Thermal Management Details
 - 9.13.2 Longkou Zhongyu Thermal Management Major Business
 - 9.13.3 Longkou Zhongyu Thermal Management Silicone Oil Fan Clutches Product and Services
 - 9.13.4 Longkou Zhongyu Thermal Management Silicone Oil Fan Clutches Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.13.5 Longkou Zhongyu Thermal Management Recent Developments/Updates
 - 9.13.6 Longkou Zhongyu Thermal Management Competitive Strengths & Weaknesses

10 INDUSTRY CHAIN ANALYSIS

- 10.1 Silicone Oil Fan Clutches Industry Chain
- 10.2 Silicone Oil Fan Clutches Upstream Analysis
 - 10.2.1 Silicone Oil Fan Clutches Core Raw Materials
 - 10.2.2 Main Manufacturers of Silicone Oil Fan Clutches Core Raw Materials
- 10.3 Midstream Analysis
- 10.4 Downstream Analysis
- 10.5 Silicone Oil Fan Clutches Production Mode
- 10.6 Silicone Oil Fan Clutches Procurement Model
- 10.7 Silicone Oil Fan Clutches Industry Sales Model and Sales Channels
 - 10.7.1 Silicone Oil Fan Clutches Sales Model
 - 10.7.2 Silicone Oil Fan Clutches Typical Distributors

11 RESEARCH FINDINGS AND CONCLUSION

12 APPENDIX

12.1 Methodology

12.2 Research Process and Data Source

12.3 Disclaimer

List Of Tables

LIST OF TABLES

Table 1. World Silicone Oil Fan Clutches Production Value by Region (2021, 2025 and 2032) & (USD Million)

Table 2. World Silicone Oil Fan Clutches Production Value by Region (2021-2026) & (USD Million)

Table 3. World Silicone Oil Fan Clutches Production Value by Region (2027-2032) & (USD Million)

Table 4. World Silicone Oil Fan Clutches Production Value Market Share by Region (2021-2026)

Table 5. World Silicone Oil Fan Clutches Production Value Market Share by Region (2027-2032)

Table 6. World Silicone Oil Fan Clutches Production by Region (2021-2026) & (K Units)

Table 7. World Silicone Oil Fan Clutches Production by Region (2027-2032) & (K Units)

Table 8. World Silicone Oil Fan Clutches Production Market Share by Region (2021-2026)

Table 9. World Silicone Oil Fan Clutches Production Market Share by Region (2027-2032)

Table 10. World Silicone Oil Fan Clutches Average Price by Region (2021-2026) & (US\$/Unit)

Table 11. World Silicone Oil Fan Clutches Average Price by Region (2027-2032) & (US\$/Unit)

Table 12. Silicone Oil Fan Clutches Major Market Trends

Table 13. World Silicone Oil Fan Clutches Consumption Growth Rate Forecast by Region (2021 & 2025 & 2032) & (K Units)

Table 14. World Silicone Oil Fan Clutches Consumption by Region (2021-2026) & (K Units)

Table 15. World Silicone Oil Fan Clutches Consumption Forecast by Region (2027-2032) & (K Units)

Table 16. World Silicone Oil Fan Clutches Production Value by Manufacturer (2021-2026) & (USD Million)

Table 17. Production Value Market Share of Key Silicone Oil Fan Clutches Producers in 2025

Table 18. World Silicone Oil Fan Clutches Production by Manufacturer (2021-2026) & (K Units)

Table 19. Production Market Share of Key Silicone Oil Fan Clutches Producers in 2025

Table 20. World Silicone Oil Fan Clutches Average Price by Manufacturer (2021-2026)

& (US\$/Unit)

Table 21. Global Silicone Oil Fan Clutches Company Evaluation Quadrant

Table 22. World Silicone Oil Fan Clutches Industry Rank of Major Manufacturers, Based on Production Value in 2025

Table 23. Head Office and Silicone Oil Fan Clutches Production Site of Key Manufacturer

Table 24. Silicone Oil Fan Clutches Market: Company Product Type Footprint

Table 25. Silicone Oil Fan Clutches Market: Company Product Application Footprint

Table 26. Silicone Oil Fan Clutches Competitive Factors

Table 27. Silicone Oil Fan Clutches New Entrant and Capacity Expansion Plans

Table 28. Silicone Oil Fan Clutches Mergers & Acquisitions Activity

Table 29. United States VS China Silicone Oil Fan Clutches Production Value Comparison, (2021 & 2025 & 2032) & (USD Million)

Table 30. United States VS China Silicone Oil Fan Clutches Production Comparison, (2021 & 2025 & 2032) & (K Units)

Table 31. United States VS China Silicone Oil Fan Clutches Consumption Comparison, (2021 & 2025 & 2032) & (K Units)

Table 32. United States Based Silicone Oil Fan Clutches Manufacturers, Headquarters and Production Site (States, Country)

Table 33. United States Based Manufacturers Silicone Oil Fan Clutches Production Value, (2021-2026) & (USD Million)

Table 34. United States Based Manufacturers Silicone Oil Fan Clutches Production Value Market Share (2021-2026)

Table 35. United States Based Manufacturers Silicone Oil Fan Clutches Production (2021-2026) & (K Units)

Table 36. United States Based Manufacturers Silicone Oil Fan Clutches Production Market Share (2021-2026)

Table 37. China Based Silicone Oil Fan Clutches Manufacturers, Headquarters and Production Site (Province, Country)

Table 38. China Based Manufacturers Silicone Oil Fan Clutches Production Value, (2021-2026) & (USD Million)

Table 39. China Based Manufacturers Silicone Oil Fan Clutches Production Value Market Share (2021-2026)

Table 40. China Based Manufacturers Silicone Oil Fan Clutches Production, (2021-2026) & (K Units)

Table 41. China Based Manufacturers Silicone Oil Fan Clutches Production Market Share (2021-2026)

Table 42. Rest of World Based Silicone Oil Fan Clutches Manufacturers, Headquarters and Production Site (State, Country)

Table 43. Rest of World Based Manufacturers Silicone Oil Fan Clutches Production Value, (2021-2026) & (USD Million)

Table 44. Rest of World Based Manufacturers Silicone Oil Fan Clutches Production Value Market Share (2021-2026)

Table 45. Rest of World Based Manufacturers Silicone Oil Fan Clutches Production, (2021-2026) & (K Units)

Table 46. Rest of World Based Manufacturers Silicone Oil Fan Clutches Production Market Share (2021-2026)

Table 47. World Silicone Oil Fan Clutches Production Value by Type, (USD Million), 2021 & 2025 & 2032

Table 48. World Silicone Oil Fan Clutches Production by Type (2021-2026) & (K Units)

Table 49. World Silicone Oil Fan Clutches Production by Type (2027-2032) & (K Units)

Table 50. World Silicone Oil Fan Clutches Production Value by Type (2021-2026) & (USD Million)

Table 51. World Silicone Oil Fan Clutches Production Value by Type (2027-2032) & (USD Million)

Table 52. World Silicone Oil Fan Clutches Average Price by Type (2021-2026) & (US\$/Unit)

Table 53. World Silicone Oil Fan Clutches Average Price by Type (2027-2032) & (US\$/Unit)

Table 54. World Silicone Oil Fan Clutches Production Value by Voltage, (USD Million), 2021 & 2025 & 2032

Table 55. World Silicone Oil Fan Clutches Production by Voltage (2021-2026) & (K Units)

Table 56. World Silicone Oil Fan Clutches Production by Voltage (2027-2032) & (K Units)

Table 57. World Silicone Oil Fan Clutches Production Value by Voltage (2021-2026) & (USD Million)

Table 58. World Silicone Oil Fan Clutches Production Value by Voltage (2027-2032) & (USD Million)

Table 59. World Silicone Oil Fan Clutches Average Price by Voltage (2021-2026) & (US\$/Unit)

Table 60. World Silicone Oil Fan Clutches Average Price by Voltage (2027-2032) & (US\$/Unit)

Table 61. World Silicone Oil Fan Clutches Production Value by Mounting Type, (USD Million), 2021 & 2025 & 2032

Table 62. World Silicone Oil Fan Clutches Production by Mounting Type (2021-2026) & (K Units)

Table 63. World Silicone Oil Fan Clutches Production by Mounting Type (2027-2032) &

(K Units)

Table 64. World Silicone Oil Fan Clutches Production Value by Mounting Type (2021-2026) & (USD Million)

Table 65. World Silicone Oil Fan Clutches Production Value by Mounting Type (2027-2032) & (USD Million)

Table 66. World Silicone Oil Fan Clutches Average Price by Mounting Type (2021-2026) & (US\$/Unit)

Table 67. World Silicone Oil Fan Clutches Average Price by Mounting Type (2027-2032) & (US\$/Unit)

Table 68. World Silicone Oil Fan Clutches Production Value by Application, (USD Million), 2021 & 2025 & 2032

Table 69. World Silicone Oil Fan Clutches Production by Application (2021-2026) & (K Units)

Table 70. World Silicone Oil Fan Clutches Production by Application (2027-2032) & (K Units)

Table 71. World Silicone Oil Fan Clutches Production Value by Application (2021-2026) & (USD Million)

Table 72. World Silicone Oil Fan Clutches Production Value by Application (2027-2032) & (USD Million)

Table 73. World Silicone Oil Fan Clutches Average Price by Application (2021-2026) & (US\$/Unit)

Table 74. World Silicone Oil Fan Clutches Average Price by Application (2027-2032) & (US\$/Unit)

Table 75. BorgWarner Basic Information, Manufacturing Base and Competitors

Table 76. BorgWarner Major Business

Table 77. BorgWarner Silicone Oil Fan Clutches Product and Services

Table 78. BorgWarner Silicone Oil Fan Clutches Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 79. BorgWarner Recent Developments/Updates

Table 80. BorgWarner Competitive Strengths & Weaknesses

Table 81. MAHLE Basic Information, Manufacturing Base and Competitors

Table 82. MAHLE Major Business

Table 83. MAHLE Silicone Oil Fan Clutches Product and Services

Table 84. MAHLE Silicone Oil Fan Clutches Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 85. MAHLE Recent Developments/Updates

Table 86. MAHLE Competitive Strengths & Weaknesses

Table 87. Horton Basic Information, Manufacturing Base and Competitors

Table 88. Horton Major Business

Table 89. Horton Silicone Oil Fan Clutches Product and Services
Table 90. Horton Silicone Oil Fan Clutches Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 91. Horton Recent Developments/Updates
Table 92. Horton Competitive Strengths & Weaknesses
Table 93. AISIN Basic Information, Manufacturing Base and Competitors
Table 94. AISIN Major Business
Table 95. AISIN Silicone Oil Fan Clutches Product and Services
Table 96. AISIN Silicone Oil Fan Clutches Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 97. AISIN Recent Developments/Updates
Table 98. AISIN Competitive Strengths & Weaknesses
Table 99. GMB Basic Information, Manufacturing Base and Competitors
Table 100. GMB Major Business
Table 101. GMB Silicone Oil Fan Clutches Product and Services
Table 102. GMB Silicone Oil Fan Clutches Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 103. GMB Recent Developments/Updates
Table 104. GMB Competitive Strengths & Weaknesses
Table 105. Hayden Automotive Basic Information, Manufacturing Base and Competitors
Table 106. Hayden Automotive Major Business
Table 107. Hayden Automotive Silicone Oil Fan Clutches Product and Services
Table 108. Hayden Automotive Silicone Oil Fan Clutches Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 109. Hayden Automotive Recent Developments/Updates
Table 110. Hayden Automotive Competitive Strengths & Weaknesses
Table 111. Dorman Products Basic Information, Manufacturing Base and Competitors
Table 112. Dorman Products Major Business
Table 113. Dorman Products Silicone Oil Fan Clutches Product and Services
Table 114. Dorman Products Silicone Oil Fan Clutches Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 115. Dorman Products Recent Developments/Updates
Table 116. Dorman Products Competitive Strengths & Weaknesses
Table 117. Nissens Basic Information, Manufacturing Base and Competitors
Table 118. Nissens Major Business
Table 119. Nissens Silicone Oil Fan Clutches Product and Services
Table 120. Nissens Silicone Oil Fan Clutches Production (K Units), Price (US\$/Unit),

Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 121. Nissens Recent Developments/Updates

Table 122. Nissens Competitive Strengths & Weaknesses

Table 123. NRF Basic Information, Manufacturing Base and Competitors

Table 124. NRF Major Business

Table 125. NRF Silicone Oil Fan Clutches Product and Services

Table 126. NRF Silicone Oil Fan Clutches Production (K Units), Price (US\$/Unit),
Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 127. NRF Recent Developments/Updates

Table 128. NRF Competitive Strengths & Weaknesses

Table 129. Diesel Technic Basic Information, Manufacturing Base and Competitors

Table 130. Diesel Technic Major Business

Table 131. Diesel Technic Silicone Oil Fan Clutches Product and Services

Table 132. Diesel Technic Silicone Oil Fan Clutches Production (K Units), Price
(US\$/Unit), Production Value (USD Million), Gross Margin and Market Share
(2021-2026)

Table 133. Diesel Technic Recent Developments/Updates

Table 134. Diesel Technic Competitive Strengths & Weaknesses

Table 135. Kit Masters Basic Information, Manufacturing Base and Competitors

Table 136. Kit Masters Major Business

Table 137. Kit Masters Silicone Oil Fan Clutches Product and Services

Table 138. Kit Masters Silicone Oil Fan Clutches Production (K Units), Price (US\$/Unit),
Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 139. Kit Masters Recent Developments/Updates

Table 140. Kit Masters Competitive Strengths & Weaknesses

Table 141. Xuelong Group Basic Information, Manufacturing Base and Competitors

Table 142. Xuelong Group Major Business

Table 143. Xuelong Group Silicone Oil Fan Clutches Product and Services

Table 144. Xuelong Group Silicone Oil Fan Clutches Production (K Units), Price
(US\$/Unit), Production Value (USD Million), Gross Margin and Market Share
(2021-2026)

Table 145. Xuelong Group Recent Developments/Updates

Table 146. Xuelong Group Competitive Strengths & Weaknesses

Table 147. Longkou Zhongyu Thermal Management Basic Information, Manufacturing
Base and Competitors

Table 148. Longkou Zhongyu Thermal Management Major Business

Table 149. Longkou Zhongyu Thermal Management Silicone Oil Fan Clutches Product
and Services

Table 150. Longkou Zhongyu Thermal Management Silicone Oil Fan Clutches

Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 151. Longkou Zhongyu Thermal Management Recent Developments/Updates

Table 152. Longkou Zhongyu Thermal Management Competitive Strengths & Weaknesses

Table 153. Global Key Players of Silicone Oil Fan Clutches Upstream (Raw Materials)

Table 154. Global Silicone Oil Fan Clutches Typical Customers

Table 155. Silicone Oil Fan Clutches Typical Distributors

List Of Figures

LIST OF FIGURES

- Figure 1. Silicone Oil Fan Clutches Picture
- Figure 2. World Silicone Oil Fan Clutches Production Value: 2021 & 2025 & 2032, (USD Million)
- Figure 3. World Silicone Oil Fan Clutches Production Value and Forecast (2021-2032) & (USD Million)
- Figure 4. World Silicone Oil Fan Clutches Production (2021-2032) & (K Units)
- Figure 5. World Silicone Oil Fan Clutches Average Price (2021-2032) & (US\$/Unit)
- Figure 6. World Silicone Oil Fan Clutches Production Value Market Share by Region (2021-2032)
- Figure 7. World Silicone Oil Fan Clutches Production Market Share by Region (2021-2032)
- Figure 8. North America Silicone Oil Fan Clutches Production (2021-2032) & (K Units)
- Figure 9. Europe Silicone Oil Fan Clutches Production (2021-2032) & (K Units)
- Figure 10. China Silicone Oil Fan Clutches Production (2021-2032) & (K Units)
- Figure 11. Japan Silicone Oil Fan Clutches Production (2021-2032) & (K Units)
- Figure 12. Silicone Oil Fan Clutches Market Drivers
- Figure 13. Factors Affecting Demand
- Figure 14. World Silicone Oil Fan Clutches Consumption (2021-2032) & (K Units)
- Figure 15. World Silicone Oil Fan Clutches Consumption Market Share by Region (2021-2032)
- Figure 16. United States Silicone Oil Fan Clutches Consumption (2021-2032) & (K Units)
- Figure 17. China Silicone Oil Fan Clutches Consumption (2021-2032) & (K Units)
- Figure 18. Europe Silicone Oil Fan Clutches Consumption (2021-2032) & (K Units)
- Figure 19. Japan Silicone Oil Fan Clutches Consumption (2021-2032) & (K Units)
- Figure 20. South Korea Silicone Oil Fan Clutches Consumption (2021-2032) & (K Units)
- Figure 21. ASEAN Silicone Oil Fan Clutches Consumption (2021-2032) & (K Units)
- Figure 22. India Silicone Oil Fan Clutches Consumption (2021-2032) & (K Units)
- Figure 23. Producer Shipments of Silicone Oil Fan Clutches by Manufacturer Revenue (\$MM) and Market Share (%): 2025
- Figure 24. Global Four-firm Concentration Ratios (CR4) for Silicone Oil Fan Clutches Markets in 2025
- Figure 25. Global Four-firm Concentration Ratios (CR8) for Silicone Oil Fan Clutches Markets in 2025
- Figure 26. United States VS China: Silicone Oil Fan Clutches Production Value Market

Share Comparison (2021 & 2025 & 2032)

Figure 27. United States VS China: Silicone Oil Fan Clutches Production Market Share Comparison (2021 & 2025 & 2032)

Figure 28. United States VS China: Silicone Oil Fan Clutches Consumption Market Share Comparison (2021 & 2025 & 2032)

Figure 29. United States Based Manufacturers Silicone Oil Fan Clutches Production Market Share 2025

Figure 30. China Based Manufacturers Silicone Oil Fan Clutches Production Market Share 2025

Figure 31. Rest of World Based Manufacturers Silicone Oil Fan Clutches Production Market Share 2025

Figure 32. World Silicone Oil Fan Clutches Production Value by Type, (USD Million), 2021 & 2025 & 2032

Figure 33. World Silicone Oil Fan Clutches Production Value Market Share by Type in 2025

Figure 34. Mechanical Temperature Control

Figure 35. Electronic Control

Figure 36. World Silicone Oil Fan Clutches Production Market Share by Type (2021-2032)

Figure 37. World Silicone Oil Fan Clutches Production Value Market Share by Type (2021-2032)

Figure 38. World Silicone Oil Fan Clutches Average Price by Type (2021-2032) & (US\$/Unit)

Figure 39. World Silicone Oil Fan Clutches Production Value by Voltage, (USD Million), 2021 & 2025 & 2032

Figure 40. World Silicone Oil Fan Clutches Production Value Market Share by Voltage in 2025

Figure 41. 12V Electronic Viscous Fan Clutch

Figure 42. 24V Electronic Viscous Fan Clutch

Figure 43. 48V Electronic Viscous Fan Clutch

Figure 44. World Silicone Oil Fan Clutches Production Market Share by Voltage (2021-2032)

Figure 45. World Silicone Oil Fan Clutches Production Value Market Share by Voltage (2021-2032)

Figure 46. World Silicone Oil Fan Clutches Average Price by Voltage (2021-2032) & (US\$/Unit)

Figure 47. World Silicone Oil Fan Clutches Production Value by Mounting Type, (USD Million), 2021 & 2025 & 2032

Figure 48. World Silicone Oil Fan Clutches Production Value Market Share by Mounting

Type in 2025

Figure 49. Engine-Mounted Electronic Viscous Fan Clutch

Figure 50. Pulley-Mounted Electronic Viscous Fan Clutch

Figure 51. Water-Pump-Mounted Electronic Viscous Fan Clutch

Figure 52. Bracket-Mounted Electronic Viscous Fan Clutch

Figure 53. World Silicone Oil Fan Clutches Production Market Share by Mounting Type (2021-2032)

Figure 54. World Silicone Oil Fan Clutches Production Value Market Share by Mounting Type (2021-2032)

Figure 55. World Silicone Oil Fan Clutches Average Price by Mounting Type (2021-2032) & (US\$/Unit)

Figure 56. World Silicone Oil Fan Clutches Production Value by Application, (USD Million), 2021 & 2025 & 2032

Figure 57. World Silicone Oil Fan Clutches Production Value Market Share by Application in 2025

Figure 58. Commercial Vehicle

Figure 59. Passenger Vehicle

Figure 60. Construction Machinery

Figure 61. Agricultural Machinery

Figure 62. Generator Set

Figure 63. World Silicone Oil Fan Clutches Production Market Share by Application (2021-2032)

Figure 64. World Silicone Oil Fan Clutches Production Value Market Share by Application (2021-2032)

Figure 65. World Silicone Oil Fan Clutches Average Price by Application (2021-2032) & (US\$/Unit)

Figure 66. Silicone Oil Fan Clutches Industry Chain

Figure 67. Silicone Oil Fan Clutches Procurement Model

Figure 68. Silicone Oil Fan Clutches Sales Model

Figure 69. Silicone Oil Fan Clutches Sales Channels, Direct Sales, and Distribution

Figure 70. Methodology

Figure 71. Research Process and Data Source

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