

Global Single-phase PFPE Coolant Market Research Report 2026(Status and Outlook)

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Abstracts

The 2025 U.S. tariff policies introduce profound uncertainty into the global economic landscape. This report critically examines the implications of recent tariff adjustments and international strategic countermeasures on Single-phase PFPE Coolant competitive dynamics, regional economic interdependencies, and supply chain reconfigurations. Global single-phase PFPE coolant production is expected to reach 3,185 tons in 2024, with an average selling price of \$142 per kilogram. Single-phase PFPE coolant is the preferred immersion medium for high-density cooling applications such as data centers, semiconductors, and 5G/AI. Domestic production has entered a period of rapid growth since 2025. Its operating mode involves direct contact between the insulating liquid and the heat-generating device, eliminating phase change and relying on temperature differential circulation to remove heat. The system is simple, requires minimal sealing, and is easy to maintain. Hexafluoropropylene oxide (HFPO), the primary raw material, accounts for 55-60% of the total cost of single-phase coolants. 70% of global production capacity is concentrated in Chemours, Daikin, and Solvay, with China's self-sufficiency rate expected to be less than 30% by 2025. Single-phase perfluoropolyether coolants, with their advantages of high insulation, non-flammability, low volatility, and long life, have become the preferred medium for liquid cooling in data centers, semiconductors, 5G/AI, aerospace, and other fields. Leading domestic manufacturer Juhua has pioneered commercialization and achieved both group standards and downstream certifications. The company is poised for rapid replacement between 2025 and 2027.

The global Single-phase PFPE Coolant market size was estimated at USD 452.0 million in 2025 and is projected to grow at a compound annual growth rate (CAGR) of 8.60% during the forecast period.

This report offers a comprehensive and in-depth analysis of the global Single-phase PFPE Coolant market, covering all critical facets from a broad macroeconomic overview to detailed micro-level insights. It examines market size, competitive landscape, emerging development trends, niche segments, key drivers and challenges, as well as conducts SWOT and value chain analyses.

The insights provided enable readers to understand the competitive dynamics within the industry and formulate effective strategies to enhance profitability and market positioning. Additionally, the report presents a clear framework for evaluating the current status and future outlook of business organizations operating in this sector.

A significant focus of this report lies in the competitive landscape of the global Single-phase PFPE Coolant market. It offers detailed profiles of major players, including their market shares, performance metrics, product portfolios, and operational status. This enables stakeholders to identify leading competitors and gain a nuanced understanding of market rivalry and structure.

In summary, this report serves as an essential resource for industry participants, investors, researchers, consultants, and business strategists, as well as anyone planning to enter or expand their presence in the Single-phase PFPE Coolant market.

Global Single-phase PFPE Coolant Market: Market Segmentation Analysis

This research report provides a detailed segmentation of the market by region (country), key manufacturers, product type, and application. Market segmentation divides the overall market into distinct subsets based on factors such as product categories, end-user industries, geographic locations, and other relevant criteria.

A clear understanding of these market segments enables decision-makers to tailor their product development, sales, and marketing strategies more effectively to meet the unique needs of each segment. Leveraging market segmentation insights can significantly enhance targeted approaches, optimize resource allocation, and accelerate product innovation cycles by aligning offerings with the specific demands of diverse customer groups.

Key Company

Chemours
SOLVAY

DAIKIN
Zhejiang Juhua
Shenzhen Capchem Technology
Fuzhou Topda New Material
CHANGLU FLUOROCHEMICALS

Market Segmentation (by Type)

K-type
Y/Z-type

Market Segmentation (by Application)

Data Center
Semiconductor Factory
Aerospace
New Energy Vehicles and Energy Storage
Other

Geographic Segmentation

North America (USA, Canada, Mexico)

Europe (Germany, UK, France, Russia, Italy, Rest of Europe)

Asia-Pacific (China, Japan, South Korea, India, Southeast Asia, Rest of Asia-Pacific)

South America (Brazil, Argentina, Columbia, Rest of South America)

The Middle East and Africa (Saudi Arabia, UAE, Egypt, Nigeria, South Africa, Rest of MEA)

Key Benefits of This Market Research:

Industry drivers, restraints, and opportunities covered in the study
Neutral perspective on the market performance
Recent industry trends and developments

Competitive landscape & strategies of key players
Potential & niche segments and regions exhibiting promising growth covered
Historical, current, and projected market size, in terms of value
In-depth analysis of the Single-phase PFPE Coolant Market
Overview of the regional outlook of the Single-phase PFPE Coolant Market:

Customization of the Report

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Chapter Outline

Chapter 1 mainly introduces the statistical scope of the report, market division standards, and market research methods.

Chapter 2 is an executive summary of different market segments (by region, product type, application, etc), including the market size of each market segment, future development potential, and so on. It offers a high-level view of the current state of the Single-phase PFPE Coolant Market and its likely evolution in the short to mid-term, and long term.

Chapter 3 makes a detailed analysis of the market's competitive landscape of the market and provides the market share, capacity, output, price, latest development plan, merger, and acquisition information of the main manufacturers in the market.

Chapter 4 is the analysis of the whole market industrial chain, including the upstream and downstream of the industry, as well as Porter's five forces analysis.

Chapter 5 introduces the latest developments of the market, the driving factors and restrictive factors of the market, the challenges and risks faced by manufacturers in the industry, and the analysis of relevant policies in the industry.

Chapter 6 provides the analysis of various market segments according to product types, covering the market size and development potential of each market segment, to help readers find the blue ocean market in different market segments.

Chapter 7 provides the analysis of various market segments according to application, covering the market size and development potential of each market segment, to help

readers find the blue ocean market in different downstream markets.

Chapter 8 provides a quantitative analysis of the market size and development potential of each region and its main countries and introduces the market development, future development prospects, market space, and capacity of each country in the world.

Chapter 9 shares the main producing countries of Single-phase PFPE Coolant, their output value, profit level, regional supply, production capacity layout, etc. from the supply side.

Chapter 10 introduces the basic situation of the main companies in the market in detail, including product sales revenue, sales volume, price, gross profit margin, market share, product introduction, recent development, etc.

Chapter 11 provides a quantitative analysis of the market size and development potential of each region in the next five years.

Chapter 12 provides a quantitative analysis of the market size and development potential of each market segment in the next five years.

Chapter 13 is the main points and conclusions of the report.

Key Reasons to Buy this Report:

Access to date statistics compiled by our researchers. These provide you with historical and forecast data, which is analyzed to tell you why your market is set to change

This enables you to anticipate market changes to remain ahead of your competitors

You will be able to copy data from the Excel spreadsheet straight into your marketing plans, business presentations, or other strategic documents

The concise analysis, clear graph, and table format will enable you to pinpoint the information you require quickly

Provision of market value data for each segment and sub-segment

Indicates the region and segment that is expected to witness the fastest growth as well as to dominate the market

Analysis by geography highlighting the consumption of the product/service in the region as well as indicating the factors that are affecting the market within each region

Competitive landscape which incorporates the market ranking of the major players, along with new service/product launches, partnerships, business expansions, and acquisitions in the past five years of companies profiled

Extensive company profiles comprising of company overview, company insights, product benchmarking, and SWOT analysis for the major market players

The current as well as the future market outlook of the industry concerning recent developments which involve growth opportunities and drivers as well as challenges and restraints of both emerging as well as developed regions

Includes in-depth analysis of the market from various perspectives through Porter's five forces analysis

Provides insight into the market through Value Chain

Market dynamics scenario, along with growth opportunities of the market in the years to come

6-month post-sales analyst support

Customization of the Report

In case of any queries or customization requirements, please connect with our sales team, who will ensure that your requirements are met.

Contents

1 RESEARCH METHODOLOGY AND STATISTICAL SCOPE

- 1.1 Market Definition and Statistical Scope of Single-phase PFPE Coolant
- 1.2 Key Market Segments
 - 1.2.1 Single-phase PFPE Coolant Segment by Type
 - 1.2.2 Single-phase PFPE Coolant Segment by Application
- 1.3 Methodology & Sources of Information
 - 1.3.1 Research Methodology
 - 1.3.2 Research Process
 - 1.3.3 Market Breakdown and Data Triangulation
 - 1.3.4 Base Year
 - 1.3.5 Report Assumptions & Caveats

2 SINGLE-PHASE PFPE COOLANT MARKET OVERVIEW

- 2.1 Global Market Overview
 - 2.1.1 Global Single-phase PFPE Coolant Market Size (M USD) Estimates and Forecasts (2020-2035)
 - 2.1.2 Global Single-phase PFPE Coolant Sales Estimates and Forecasts (2020-2035)
- 2.2 Market Segment Executive Summary
- 2.3 Global Market Size by Region

3 SINGLE-PHASE PFPE COOLANT MARKET COMPETITIVE LANDSCAPE

- 3.1 Company Assessment Quadrant
- 3.2 Global Single-phase PFPE Coolant Product Life Cycle
- 3.3 Global Single-phase PFPE Coolant Sales by Manufacturers (2020-2025)
- 3.4 Global Single-phase PFPE Coolant Revenue Market Share by Manufacturers (2020-2025)
- 3.5 Single-phase PFPE Coolant Market Share by Company Type (Tier 1, Tier 2, and Tier 3)
- 3.6 Global Single-phase PFPE Coolant Average Price by Manufacturers (2020-2025)
- 3.7 Manufacturers? Manufacturing Sites, Areas Served, and Product Types
- 3.8 Single-phase PFPE Coolant Market Competitive Situation and Trends
 - 3.8.1 Single-phase PFPE Coolant Market Concentration Rate
 - 3.8.2 Global 5 and 10 Largest Single-phase PFPE Coolant Players Market Share by Revenue

3.8.3 Mergers & Acquisitions, Expansion

4 SINGLE-PHASE PFPE COOLANT INDUSTRY CHAIN ANALYSIS

4.1 Single-phase PFPE Coolant Industry Chain Analysis

4.2 Market Overview of Key Raw Materials

4.3 Midstream Market Analysis

4.4 Downstream Customer Analysis

5 THE DEVELOPMENT AND DYNAMICS OF SINGLE-PHASE PFPE COOLANT MARKET

5.1 Key Development Trends

5.2 Driving Factors

5.3 Market Challenges

5.4 Industry News

5.4.1 New Product Developments

5.4.2 Mergers & Acquisitions

5.4.3 Expansions

5.4.4 Collaboration/Supply Contracts

5.5 PEST Analysis

5.5.1 Industry Policies Analysis

5.5.2 Economic Environment Analysis

5.5.3 Social Environment Analysis

5.5.4 Technological Environment Analysis

5.6 Global Single-phase PFPE Coolant Market Porter's Five Forces Analysis

5.6.1 Global Trade Frictions

5.6.2 U.S. Tariff Policy ? April 2025

5.6.3 Global Trade Frictions and Their Impacts to Single-phase PFPE Coolant Market

5.7 ESG Ratings of Leading Companies

6 SINGLE-PHASE PFPE COOLANT MARKET SEGMENTATION BY TYPE

6.1 Evaluation Matrix of Segment Market Development Potential (Type)

6.2 Global Single-phase PFPE Coolant Sales Market Share by Type (2020-2025)

6.3 Global Single-phase PFPE Coolant Market Size by Type (2020-2025)

6.4 Global Single-phase PFPE Coolant Price by Type (2020-2025)

7 SINGLE-PHASE PFPE COOLANT MARKET SEGMENTATION BY APPLICATION

- 7.1 Evaluation Matrix of Segment Market Development Potential (Application)
- 7.2 Global Single-phase PFPE Coolant Market Sales by Application (2020-2025)
- 7.3 Global Single-phase PFPE Coolant Market Size (M USD) by Application (2020-2025)
- 7.4 Global Single-phase PFPE Coolant Sales Growth Rate by Application (2020-2025)

8 SINGLE-PHASE PFPE COOLANT MARKET SALES BY REGION

- 8.1 Global Single-phase PFPE Coolant Sales by Region
 - 8.1.1 Global Single-phase PFPE Coolant Sales by Region
 - 8.1.2 Global Single-phase PFPE Coolant Sales Market Share by Region
- 8.2 Global Single-phase PFPE Coolant Market Size by Region
 - 8.2.1 Global Single-phase PFPE Coolant Market Size by Region
 - 8.2.2 Global Single-phase PFPE Coolant Market Size by Region
- 8.3 North America
 - 8.3.1 North America Single-phase PFPE Coolant Sales by Country
 - 8.3.2 North America Single-phase PFPE Coolant Market Size by Country
 - 8.3.3 U.S. Market Overview
 - 8.3.4 Canada Market Overview
 - 8.3.5 Mexico Market Overview
- 8.4 Europe
 - 8.4.1 Europe Single-phase PFPE Coolant Sales by Country
 - 8.4.2 Europe Single-phase PFPE Coolant Market Size by Country
 - 8.4.3 Germany Market Overview
 - 8.4.4 France Market Overview
 - 8.4.5 U.K. Market Overview
 - 8.4.6 Italy Market Overview
 - 8.4.7 Spain Market Overview
- 8.5 Asia Pacific
 - 8.5.1 Asia Pacific Single-phase PFPE Coolant Sales by Region
 - 8.5.2 Asia Pacific Single-phase PFPE Coolant Market Size by Region
 - 8.5.3 China Market Overview
 - 8.5.4 Japan Market Overview
 - 8.5.5 South Korea Market Overview
 - 8.5.6 India Market Overview
 - 8.5.7 Southeast Asia Market Overview
- 8.6 South America
 - 8.6.1 South America Single-phase PFPE Coolant Sales by Country

- 8.6.2 South America Single-phase PFPE Coolant Market Size by Country
- 8.6.3 Brazil Market Overview
- 8.6.4 Argentina Market Overview
- 8.6.5 Columbia Market Overview
- 8.7 Middle East and Africa
 - 8.7.1 Middle East and Africa Single-phase PFPE Coolant Sales by Region
 - 8.7.2 Middle East and Africa Single-phase PFPE Coolant Market Size by Region
 - 8.7.3 Saudi Arabia Market Overview
 - 8.7.4 UAE Market Overview
 - 8.7.5 Egypt Market Overview
 - 8.7.6 Nigeria Market Overview
 - 8.7.7 South Africa Market Overview

9 SINGLE-PHASE PFPE COOLANT MARKET PRODUCTION BY REGION

- 9.1 Global Production of Single-phase PFPE Coolant by Region(2020-2025)
- 9.2 Global Single-phase PFPE Coolant Revenue Market Share by Region (2020-2025)
- 9.3 Global Single-phase PFPE Coolant Production, Revenue, Price and Gross Margin (2020-2025)
- 9.4 North America Single-phase PFPE Coolant Production
 - 9.4.1 North America Single-phase PFPE Coolant Production Growth Rate (2020-2025)
 - 9.4.2 North America Single-phase PFPE Coolant Production, Revenue, Price and Gross Margin (2020-2025)
- 9.5 Europe Single-phase PFPE Coolant Production
 - 9.5.1 Europe Single-phase PFPE Coolant Production Growth Rate (2020-2025)
 - 9.5.2 Europe Single-phase PFPE Coolant Production, Revenue, Price and Gross Margin (2020-2025)
- 9.6 Japan Single-phase PFPE Coolant Production (2020-2025)
 - 9.6.1 Japan Single-phase PFPE Coolant Production Growth Rate (2020-2025)
 - 9.6.2 Japan Single-phase PFPE Coolant Production, Revenue, Price and Gross Margin (2020-2025)
- 9.7 China Single-phase PFPE Coolant Production (2020-2025)
 - 9.7.1 China Single-phase PFPE Coolant Production Growth Rate (2020-2025)
 - 9.7.2 China Single-phase PFPE Coolant Production, Revenue, Price and Gross Margin (2020-2025)

10 KEY COMPANIES PROFILE

- 10.1 Chemours

- 10.1.1 Chemours Basic Information
- 10.1.2 Chemours Single-phase PFPE Coolant Product Overview
- 10.1.3 Chemours Single-phase PFPE Coolant Product Market Performance
- 10.1.4 Chemours Business Overview
- 10.1.5 Chemours SWOT Analysis
- 10.1.6 Chemours Recent Developments
- 10.2 SOLVAY
 - 10.2.1 SOLVAY Basic Information
 - 10.2.2 SOLVAY Single-phase PFPE Coolant Product Overview
 - 10.2.3 SOLVAY Single-phase PFPE Coolant Product Market Performance
 - 10.2.4 SOLVAY Business Overview
 - 10.2.5 SOLVAY SWOT Analysis
 - 10.2.6 SOLVAY Recent Developments
- 10.3 DAIKIN
 - 10.3.1 DAIKIN Basic Information
 - 10.3.2 DAIKIN Single-phase PFPE Coolant Product Overview
 - 10.3.3 DAIKIN Single-phase PFPE Coolant Product Market Performance
 - 10.3.4 DAIKIN Business Overview
 - 10.3.5 DAIKIN SWOT Analysis
 - 10.3.6 DAIKIN Recent Developments
- 10.4 Zhejiang Juhua
 - 10.4.1 Zhejiang Juhua Basic Information
 - 10.4.2 Zhejiang Juhua Single-phase PFPE Coolant Product Overview
 - 10.4.3 Zhejiang Juhua Single-phase PFPE Coolant Product Market Performance
 - 10.4.4 Zhejiang Juhua Business Overview
 - 10.4.5 Zhejiang Juhua Recent Developments
- 10.5 Shenzhen Capchem Technology
 - 10.5.1 Shenzhen Capchem Technology Basic Information
 - 10.5.2 Shenzhen Capchem Technology Single-phase PFPE Coolant Product Overview
 - 10.5.3 Shenzhen Capchem Technology Single-phase PFPE Coolant Product Market Performance
 - 10.5.4 Shenzhen Capchem Technology Business Overview
 - 10.5.5 Shenzhen Capchem Technology Recent Developments
- 10.6 Fuzhou Topda New Material
 - 10.6.1 Fuzhou Topda New Material Basic Information
 - 10.6.2 Fuzhou Topda New Material Single-phase PFPE Coolant Product Overview
 - 10.6.3 Fuzhou Topda New Material Single-phase PFPE Coolant Product Market Performance

10.6.4 Fuzhou Topda New Material Business Overview

10.6.5 Fuzhou Topda New Material Recent Developments

10.7 CHANGLU FLUOROCHEMICALS

10.7.1 CHANGLU FLUOROCHEMICALS Basic Information

10.7.2 CHANGLU FLUOROCHEMICALS Single-phase PFPE Coolant Product Overview

10.7.3 CHANGLU FLUOROCHEMICALS Single-phase PFPE Coolant Product Market Performance

10.7.4 CHANGLU FLUOROCHEMICALS Business Overview

10.7.5 CHANGLU FLUOROCHEMICALS Recent Developments

11 SINGLE-PHASE PFPE COOLANT MARKET FORECAST BY REGION

11.1 Global Single-phase PFPE Coolant Market Size Forecast

11.2 Global Single-phase PFPE Coolant Market Forecast by Region

11.2.1 North America Market Size Forecast by Country

11.2.2 Europe Single-phase PFPE Coolant Market Size Forecast by Country

11.2.3 Asia Pacific Single-phase PFPE Coolant Market Size Forecast by Region

11.2.4 South America Single-phase PFPE Coolant Market Size Forecast by Country

11.2.5 Middle East and Africa Forecasted Sales of Single-phase PFPE Coolant by Country

12 FORECAST MARKET BY TYPE AND BY APPLICATION (2026-2035)

12.1 Global Single-phase PFPE Coolant Market Forecast by Type (2026-2035)

12.1.1 Global Forecasted Sales of Single-phase PFPE Coolant by Type (2026-2035)

12.1.2 Global Single-phase PFPE Coolant Market Size Forecast by Type (2026-2035)

12.1.3 Global Forecasted Price of Single-phase PFPE Coolant by Type (2026-2035)

12.2 Global Single-phase PFPE Coolant Market Forecast by Application (2026-2035)

12.2.1 Global Single-phase PFPE Coolant Sales (K MT) Forecast by Application

12.2.2 Global Single-phase PFPE Coolant Market Size (M USD) Forecast by Application (2026-2035)

13 CONCLUSION AND KEY FINDINGS

List Of Tables

LIST OF TABLES

- Table 1. Introduction of the Type
- Table 2. Introduction of the Application
- Table 3. Global Single-phase PFPE Coolant Market Size by Type (M USD)
- Table 4. Global Single-phase PFPE Coolant Market Size by Application
- Table 5. Single-phase PFPE Coolant Market Size Comparison by Region (M USD)
- Table 6. Global Single-phase PFPE Coolant Sales (K MT) by Manufacturers (2020-2025)
- Table 7. Global Single-phase PFPE Coolant Sales Market Share by Manufacturers (2020-2025)
- Table 8. Global Single-phase PFPE Coolant Revenue (M USD) by Manufacturers (2020-2025)
- Table 9. Global Single-phase PFPE Coolant Revenue Share by Manufacturers (2020-2025)
- Table 10. Company Type (Tier 1, Tier 2, and Tier 3) & (based on the Revenue in Single-phase PFPE Coolant as of 2025)
- Table 11. Global Market Single-phase PFPE Coolant Average Price (USD/KG) of Key Manufacturers (2020-2025)
- Table 12. Manufacturers? Manufacturing Sites, Areas Served
- Table 13. Manufacturers? Product Type
- Table 14. Global Single-phase PFPE Coolant Manufacturers Market Concentration Ratio (CR5 and HHI)
- Table 15. Mergers & Acquisitions, Expansion Plans
- Table 16. Market Overview of Key Raw Materials
- Table 17. Midstream Market Analysis
- Table 18. Downstream Customer Analysis
- Table 19. Key Development Trends
- Table 20. Driving Factors
- Table 21. Single-phase PFPE Coolant Market Challenges
- Table 22. Goldman Sachs' forecast real GDP growth rate for 2025-2026
- Table 23. S&P Global ' Forecast Real GDP Growth Rate For 2025-2027
- Table 24. World Bank ' Forecast Real GDP Growth Rate For 2025-2026
- Table 25. The Tariff Rates Imposed by the United States on Major Commodity Trading Countries
- Table 26. Global Single-phase PFPE Coolant Sales by Type (K MT)
- Table 27. Global Single-phase PFPE Coolant Market Size by Type (M USD)

- Table 28. Global Single-phase PFPE Coolant Sales (K MT) by Type (2020-2025)
- Table 29. Global Single-phase PFPE Coolant Sales Market Share by Type (2020-2025)
- Table 30. Global Single-phase PFPE Coolant Market Size (M USD) by Type (2020-2025)
- Table 31. Global Single-phase PFPE Coolant Market Share by Type (2020-2025)
- Table 32. Global Single-phase PFPE Coolant Price (USD/KG) by Type (2020-2025)
- Table 33. Global Single-phase PFPE Coolant Sales (K MT) by Application
- Table 34. Global Single-phase PFPE Coolant Market Size by Application
- Table 35. Global Single-phase PFPE Coolant Sales by Application (2020-2025) & (K MT)
- Table 36. Global Single-phase PFPE Coolant Sales Market Share by Application (2020-2025)
- Table 37. Global Single-phase PFPE Coolant Market Size by Application (2020-2025) & (M USD)
- Table 38. Global Single-phase PFPE Coolant Market Share by Application (2020-2025)
- Table 39. Global Single-phase PFPE Coolant Sales Growth Rate by Application (2020-2025)
- Table 40. Global Single-phase PFPE Coolant Sales by Region (2020-2025) & (K MT)
- Table 41. Global Single-phase PFPE Coolant Sales Market Share by Region (2020-2025)
- Table 42. Global Single-phase PFPE Coolant Market Size by Region (2020-2025) & (M USD)
- Table 43. Global Single-phase PFPE Coolant Market Size by Region (2020-2025)
- Table 44. North America Single-phase PFPE Coolant Sales by Country (2020-2025) & (K MT)
- Table 45. North America Single-phase PFPE Coolant Market Size by Country (2020-2025) & (M USD)
- Table 46. Europe Single-phase PFPE Coolant Sales by Country (2020-2025) & (K MT)
- Table 47. Europe Single-phase PFPE Coolant Market Size by Country (2020-2025) & (M USD)
- Table 48. Asia Pacific Single-phase PFPE Coolant Sales by Region (2020-2025) & (K MT)
- Table 49. Asia Pacific Single-phase PFPE Coolant Market Size by Region (2020-2025) & (M USD)
- Table 50. South America Single-phase PFPE Coolant Sales by Country (2020-2025) & (K MT)
- Table 51. South America Single-phase PFPE Coolant Market Size by Country (2020-2025) & (M USD)
- Table 52. Middle East and Africa Single-phase PFPE Coolant Sales by Region

(2020-2025) & (K MT)

Table 53. Middle East and Africa Single-phase PFPE Coolant Market Size by Region (2020-2025) & (M USD)

Table 54. Global Single-phase PFPE Coolant Production (K MT) by Region(2020-2025)

Table 55. Global Single-phase PFPE Coolant Revenue (US\$ Million) by Region (2020-2025)

Table 56. Global Single-phase PFPE Coolant Revenue Market Share by Region (2020-2025)

Table 57. Global Single-phase PFPE Coolant Production (K MT), Revenue (US\$ Million), Price (USD/KG) and Gross Margin (2020-2025)

Table 58. North America Single-phase PFPE Coolant Production (K MT), Revenue (US\$ Million), Price (USD/KG) and Gross Margin (2020-2025)

Table 59. Europe Single-phase PFPE Coolant Production (K MT), Revenue (US\$ Million), Price (USD/KG) and Gross Margin (2020-2025)

Table 60. Japan Single-phase PFPE Coolant Production (K MT), Revenue (US\$ Million), Price (USD/KG) and Gross Margin (2020-2025)

Table 61. China Single-phase PFPE Coolant Production (K MT), Revenue (US\$ Million), Price (USD/KG) and Gross Margin (2020-2025)

Table 62. Chemours Basic Information

Table 63. Chemours Single-phase PFPE Coolant Product Overview

Table 64. Chemours Single-phase PFPE Coolant Sales (K MT), Revenue (M USD), Price (USD/KG) and Gross Margin (2020-2025)

Table 65. Chemours Business Overview

Table 66. Chemours SWOT Analysis

Table 67. Chemours Recent Developments

Table 68. SOLVAY Basic Information

Table 69. SOLVAY Single-phase PFPE Coolant Product Overview

Table 70. SOLVAY Single-phase PFPE Coolant Sales (K MT), Revenue (M USD), Price (USD/KG) and Gross Margin (2020-2025)

Table 71. SOLVAY Business Overview

Table 72. SOLVAY SWOT Analysis

Table 73. SOLVAY Recent Developments

Table 74. DAIKIN Basic Information

Table 75. DAIKIN Single-phase PFPE Coolant Product Overview

Table 76. DAIKIN Single-phase PFPE Coolant Sales (K MT), Revenue (M USD), Price (USD/KG) and Gross Margin (2020-2025)

Table 77. DAIKIN Business Overview

Table 78. DAIKIN SWOT Analysis

Table 79. DAIKIN Recent Developments

- Table 80. Zhejiang Juhua Basic Information
- Table 81. Zhejiang Juhua Single-phase PFPE Coolant Product Overview
- Table 82. Zhejiang Juhua Single-phase PFPE Coolant Sales (K MT), Revenue (M USD), Price (USD/KG) and Gross Margin (2020-2025)
- Table 83. Zhejiang Juhua Business Overview
- Table 84. Zhejiang Juhua Recent Developments
- Table 85. Shenzhen Capchem Technology Basic Information
- Table 86. Shenzhen Capchem Technology Single-phase PFPE Coolant Product Overview
- Table 87. Shenzhen Capchem Technology Single-phase PFPE Coolant Sales (K MT), Revenue (M USD), Price (USD/KG) and Gross Margin (2020-2025)
- Table 88. Shenzhen Capchem Technology Business Overview
- Table 89. Shenzhen Capchem Technology Recent Developments
- Table 90. Fuzhou Topda New Material Basic Information
- Table 91. Fuzhou Topda New Material Single-phase PFPE Coolant Product Overview
- Table 92. Fuzhou Topda New Material Single-phase PFPE Coolant Sales (K MT), Revenue (M USD), Price (USD/KG) and Gross Margin (2020-2025)
- Table 93. Fuzhou Topda New Material Business Overview
- Table 94. Fuzhou Topda New Material Recent Developments
- Table 95. CHANGLU FLUOROCHEMICALS Basic Information
- Table 96. CHANGLU FLUOROCHEMICALS Single-phase PFPE Coolant Product Overview
- Table 97. CHANGLU FLUOROCHEMICALS Single-phase PFPE Coolant Sales (K MT), Revenue (M USD), Price (USD/KG) and Gross Margin (2020-2025)
- Table 98. CHANGLU FLUOROCHEMICALS Business Overview
- Table 99. CHANGLU FLUOROCHEMICALS Recent Developments
- Table 100. Global Single-phase PFPE Coolant Sales Forecast by Region (2026-2035) & (K MT)
- Table 101. Global Single-phase PFPE Coolant Market Size Forecast by Region (2026-2035) & (M USD)
- Table 102. North America Single-phase PFPE Coolant Sales Forecast by Country (2026-2035) & (K MT)
- Table 103. North America Single-phase PFPE Coolant Market Size Forecast by Country (2026-2035) & (M USD)
- Table 104. Europe Single-phase PFPE Coolant Sales Forecast by Country (2026-2035) & (K MT)
- Table 105. Europe Single-phase PFPE Coolant Market Size Forecast by Country (2026-2035) & (M USD)
- Table 106. Asia Pacific Single-phase PFPE Coolant Sales Forecast by Region

(2026-2035) & (K MT)

Table 107. Asia Pacific Single-phase PFPE Coolant Market Size Forecast by Region (2026-2035) & (M USD)

Table 108. South America Single-phase PFPE Coolant Sales Forecast by Country (2026-2035) & (K MT)

Table 109. South America Single-phase PFPE Coolant Market Size Forecast by Country (2026-2035) & (M USD)

Table 110. Middle East and Africa Single-phase PFPE Coolant Sales Forecast by Country (2026-2035) & (Units)

Table 111. Middle East and Africa Single-phase PFPE Coolant Market Size Forecast by Country (2026-2035) & (M USD)

Table 112. Global Single-phase PFPE Coolant Sales Forecast by Type (2026-2035) & (K MT)

Table 113. Global Single-phase PFPE Coolant Market Size Forecast by Type (2026-2035) & (M USD)

Table 114. Global Single-phase PFPE Coolant Price Forecast by Type (2026-2035) & (USD/KG)

Table 115. Global Single-phase PFPE Coolant Sales (K MT) Forecast by Application (2026-2035)

Table 116. Global Single-phase PFPE Coolant Market Size Forecast by Application (2026-2035) & (M USD)

List Of Figures

LIST OF FIGURES

- Figure 1. Product Picture of Single-phase PFPE Coolant
- Figure 2. Data Triangulation
- Figure 3. Key Caveats
- Figure 4. Global Single-phase PFPE Coolant Market Size (M USD), 2025-2035
- Figure 5. Global Single-phase PFPE Coolant Market Size (M USD) (2020-2035)
- Figure 6. Global Single-phase PFPE Coolant Sales (K MT) & (2020-2035)
- Figure 7. Evaluation Matrix of Segment Market Development Potential (Type)
- Figure 8. Evaluation Matrix of Segment Market Development Potential (Application)
- Figure 9. Evaluation Matrix of Regional Market Development Potential
- Figure 10. Single-phase PFPE Coolant Market Size by Country (M USD)
- Figure 11. Company Assessment Quadrant
- Figure 12. Global Single-phase PFPE Coolant Product Life Cycle
- Figure 13. Single-phase PFPE Coolant Sales Share by Manufacturers in 2025
- Figure 14. Global Single-phase PFPE Coolant Revenue Share by Manufacturers in 2025
- Figure 15. Single-phase PFPE Coolant Market Share by Company Type (Tier 1, Tier 2 and Tier 3): 2025
- Figure 16. Global Market Single-phase PFPE Coolant Average Price (USD/KG) of Key Manufacturers in 2025
- Figure 17. The Global 5 and 10 Largest Players: Market Share by Single-phase PFPE Coolant Revenue in 2025
- Figure 18. Industry Chain Map of Single-phase PFPE Coolant
- Figure 19. Global Single-phase PFPE Coolant Market PEST Analysis
- Figure 20. Global Single-phase PFPE Coolant Market Porter's Five Forces Analysis
- Figure 21. Global Merchandise Trade as a Percentage Of GDP
- Figure 22. US - Imports of Goods by Country
- Figure 23. China Exports by Country
- Figure 24. ESG Rating Distribution of The Leading Company Compared With Its Peers
- Figure 25. Evaluation Matrix of Segment Market Development Potential (Type)
- Figure 26. Global Single-phase PFPE Coolant Market Share by Type
- Figure 27. Sales Market Share of Single-phase PFPE Coolant by Type (2020-2025)
- Figure 28. Sales Market Share of Single-phase PFPE Coolant by Type in 2025
- Figure 29. Market Share of Single-phase PFPE Coolant by Type (2020-2025)
- Figure 30. Market Share of Single-phase PFPE Coolant by Type in 2025
- Figure 31. Evaluation Matrix of Segment Market Development Potential (Application)

- Figure 32. Global Single-phase PFPE Coolant Market Share by Application
- Figure 33. Global Single-phase PFPE Coolant Sales Market Share by Application (2020-2025)
- Figure 34. Global Single-phase PFPE Coolant Sales Market Share by Application in 2025
- Figure 35. Global Single-phase PFPE Coolant Market Share by Application (2020-2025)
- Figure 36. Global Single-phase PFPE Coolant Market Share by Application in 2025
- Figure 37. Global Single-phase PFPE Coolant Sales Growth Rate by Application (2020-2025)
- Figure 38. Global Single-phase PFPE Coolant Sales Market Share by Region (2020-2025)
- Figure 39. Global Single-phase PFPE Coolant Market Size by Region (2020-2025)
- Figure 40. North America Single-phase PFPE Coolant Sales and Growth Rate (2020-2025) & (K MT)
- Figure 41. North America Single-phase PFPE Coolant Sales and Growth Rate (2020-2025) & (K MT)
- Figure 42. North America Single-phase PFPE Coolant Sales Market Share by Country in 2024
- Figure 43. North America Single-phase PFPE Coolant Market Size and Growth Rate (2020-2025) & (M USD)
- Figure 44. North America Single-phase PFPE Coolant Market Size by Country in 2024
- Figure 45. U.S. Single-phase PFPE Coolant Sales and Growth Rate (2020-2025) & (K MT)
- Figure 46. U.S. Single-phase PFPE Coolant Market Size and Growth Rate (2020-2025) & (M USD)
- Figure 47. Canada Single-phase PFPE Coolant Sales (K MT) and Growth Rate (2020-2025)
- Figure 48. Canada Single-phase PFPE Coolant Market Size (M USD) and Growth Rate (2020-2025)
- Figure 49. Mexico Single-phase PFPE Coolant Sales (Units) and Growth Rate (2020-2025)
- Figure 50. Mexico Single-phase PFPE Coolant Market Size (Units) and Growth Rate (2020-2025)
- Figure 51. Europe Single-phase PFPE Coolant Sales and Growth Rate (2020-2025) & (K MT)
- Figure 52. Europe Single-phase PFPE Coolant Sales Market Share by Country in 2024
- Figure 53. Europe Single-phase PFPE Coolant Market Size and Growth Rate (2020-2025) & (M USD)
- Figure 54. Europe Single-phase PFPE Coolant Market Size by Country in 2024

Figure 55. Germany Single-phase PFPE Coolant Sales and Growth Rate (2020-2025) & (K MT)

Figure 56. Germany Single-phase PFPE Coolant Market Size and Growth Rate (2020-2025) & (M USD)

Figure 57. France Single-phase PFPE Coolant Sales and Growth Rate (2020-2025) & (K MT)

Figure 58. France Single-phase PFPE Coolant Market Size and Growth Rate (2020-2025) & (M USD)

Figure 59. U.K. Single-phase PFPE Coolant Sales and Growth Rate (2020-2025) & (K MT)

Figure 60. U.K. Single-phase PFPE Coolant Market Size and Growth Rate (2020-2025) & (M USD)

Figure 61. Italy Single-phase PFPE Coolant Sales and Growth Rate (2020-2025) & (K MT)

Figure 62. Italy Single-phase PFPE Coolant Market Size and Growth Rate (2020-2025) & (M USD)

Figure 63. Spain Single-phase PFPE Coolant Sales and Growth Rate (2020-2025) & (K MT)

Figure 64. Spain Single-phase PFPE Coolant Market Size and Growth Rate (2020-2025) & (M USD)

Figure 65. Asia Pacific Single-phase PFPE Coolant Sales and Growth Rate (K MT)

Figure 66. Asia Pacific Single-phase PFPE Coolant Sales Market Share by Region in 2024

Figure 67. Asia Pacific Single-phase PFPE Coolant Market Size by Region in 2024

Figure 68. China Single-phase PFPE Coolant Sales and Growth Rate (2020-2025) & (K MT)

Figure 69. China Single-phase PFPE Coolant Market Size and Growth Rate (2020-2025) & (M USD)

Figure 70. Japan Single-phase PFPE Coolant Sales and Growth Rate (2020-2025) & (K MT)

Figure 71. Japan Single-phase PFPE Coolant Market Size and Growth Rate (2020-2025) & (M USD)

Figure 72. South Korea Single-phase PFPE Coolant Sales and Growth Rate (2020-2025) & (K MT)

Figure 73. South Korea Single-phase PFPE Coolant Market Size and Growth Rate (2020-2025) & (M USD)

Figure 74. India Single-phase PFPE Coolant Sales and Growth Rate (2020-2025) & (K MT)

Figure 75. India Single-phase PFPE Coolant Market Size and Growth Rate (2020-2025)

& (M USD)

Figure 76. Southeast Asia Single-phase PFPE Coolant Sales and Growth Rate (2020-2025) & (K MT)

Figure 77. Southeast Asia Single-phase PFPE Coolant Market Size and Growth Rate (2020-2025) & (M USD)

Figure 78. South America Single-phase PFPE Coolant Sales and Growth Rate (K MT)

Figure 79. South America Single-phase PFPE Coolant Sales Market Share by Country in 2024

Figure 80. South America Single-phase PFPE Coolant Market Size and Growth Rate (M USD)

Figure 81. South America Single-phase PFPE Coolant Market Size by Country in 2024

Figure 82. Brazil Single-phase PFPE Coolant Sales and Growth Rate (2020-2025) & (K MT)

Figure 83. Brazil Single-phase PFPE Coolant Market Size and Growth Rate (2020-2025) & (M USD)

Figure 84. Argentina Single-phase PFPE Coolant Sales and Growth Rate (2020-2025) & (K MT)

Figure 85. Argentina Single-phase PFPE Coolant Market Size and Growth Rate (2020-2025) & (M USD)

Figure 86. Columbia Single-phase PFPE Coolant Sales and Growth Rate (2020-2025) & (K MT)

Figure 87. Columbia Single-phase PFPE Coolant Market Size and Growth Rate (2020-2025) & (M USD)

Figure 88. Middle East and Africa Single-phase PFPE Coolant Sales and Growth Rate (K MT)

Figure 89. Middle East and Africa Single-phase PFPE Coolant Sales Market Share by Region in 2024

Figure 90. Middle East and Africa Single-phase PFPE Coolant Market Size and Growth Rate (M USD)

Figure 91. Middle East and Africa Single-phase PFPE Coolant Market Size by Region in 2024

Figure 92. Saudi Arabia Single-phase PFPE Coolant Sales and Growth Rate (2020-2025) & (K MT)

Figure 93. Saudi Arabia Single-phase PFPE Coolant Market Size and Growth Rate (2020-2025) & (M USD)

Figure 94. UAE Single-phase PFPE Coolant Sales and Growth Rate (2020-2025) & (K MT)

Figure 95. UAE Single-phase PFPE Coolant Market Size and Growth Rate (2020-2025) & (M USD)

Figure 96. Egypt Single-phase PFPE Coolant Sales and Growth Rate (2020-2025) & (K MT)

Figure 97. Egypt Single-phase PFPE Coolant Market Size and Growth Rate (2020-2025) & (M USD)

Figure 98. Nigeria Single-phase PFPE Coolant Sales and Growth Rate (2020-2025) & (K MT)

Figure 99. Nigeria Single-phase PFPE Coolant Market Size and Growth Rate (2020-2025) & (M USD)

Figure 100. South Africa Single-phase PFPE Coolant Sales and Growth Rate (2020-2025) & (K MT)

Figure 101. South Africa Single-phase PFPE Coolant Market Size and Growth Rate (2020-2025) & (M USD)

Figure 102. Global Single-phase PFPE Coolant Production Market Share by Region (2020-2025)

Figure 103. North America Single-phase PFPE Coolant Production (K MT) Growth Rate (2020-2025)

Figure 104. Europe Single-phase PFPE Coolant Production (K MT) Growth Rate (2020-2025)

Figure 105. Japan Single-phase PFPE Coolant Production (K MT) Growth Rate (2020-2025)

Figure 106. China Single-phase PFPE Coolant Production (K MT) Growth Rate (2020-2025)

Figure 107. Global Single-phase PFPE Coolant Sales Forecast by Volume (2020-2035) & (K MT)

Figure 108. Global Single-phase PFPE Coolant Market Size Forecast by Value (2020-2035) & (M USD)

Figure 109. Global Single-phase PFPE Coolant Sales Market Share Forecast by Type (2026-2035)

Figure 110. Global Single-phase PFPE Coolant Market Share Forecast by Type (2026-2035)

Figure 111. Global Single-phase PFPE Coolant Sales Forecast by Application (2026-2035)

Figure 112. Global Single-phase PFPE Coolant Market Share Forecast by Application (2026-2035)

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