

Global Data Center Liquid Cooling Fluids Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Data Center Liquid Cooling Fluids market size is expected to reach \$ 941 million by 2032, rising at a market growth of 6.6% CAGR during the forecast period (2026-2032).

Data Center Liquid Cooling Fluids are thermal management fluids used in direct-to-chip liquid cooling loops and immersion cooling systems for AI servers, high-performance computing clusters and high-density data centers. They include water-glycol coolants, corrosion-inhibited secondary loop fluids, synthetic hydrocarbon dielectric fluids, ester-based dielectric fluids and fluorinated or fluorine-free specialty fluids, with key requirements including high heat capacity, low viscosity, electrical insulation for immersion use, materials compatibility, corrosion control, low volatility, fire safety and long service life. 2025, Global Data Center Liquid Cooling Fluids sales are estimated at about 115 Kilotons, with an average ex-works price of about 5,200 US\$/Ton.

The value chain runs from base oils, glycols, esters, synthetic hydrocarbons, additives and inhibitor packages to coolant formulators, liquid-cooling system integrators, server OEMs, data-center operators and hyperscale AI computing customers.

Demand is being driven by AI rack power densities moving beyond what air cooling can efficiently support, the wider deployment of direct-to-chip liquid cooling in GPU clusters, and the growing interest in immersion cooling for high-density or space-constrained facilities. Fluid suppliers benefit from the fact that data-center operators require long qualification cycles, low maintenance risk and proven compatibility with pumps, hoses, seals, server materials and electronics, so qualified fluids can enjoy sticky demand once adopted.

This report studies the global Data Center Liquid Cooling Fluids production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Data Center Liquid Cooling Fluids 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 Data Center Liquid Cooling Fluids that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Data Center Liquid Cooling Fluids total production and demand, 2021-2032, (Kilotons)

Global Data Center Liquid Cooling Fluids total production value, 2021-2032, (USD Million)

Global Data Center Liquid Cooling Fluids production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Kilotons), (based on production site)

Global Data Center Liquid Cooling Fluids consumption by region & country, CAGR, 2021-2032 & (Kilotons)

U.S. VS China: Data Center Liquid Cooling Fluids domestic production, consumption, key domestic manufacturers and share

Global Data Center Liquid Cooling Fluids production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Kilotons)

Global Data Center Liquid Cooling Fluids production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Kilotons)

Global Data Center Liquid Cooling Fluids production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Kilotons)

This report profiles key players in the global Data Center Liquid Cooling Fluids 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 Shell, ExxonMobil Product Solutions, Castrol, Lubrizol, FUCHS, Cargill, ENEOS, TotalEnergies, Dow, Chemours, 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 Data Center Liquid Cooling Fluids market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (Kilotons) and average price (US\$/Ton) 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 Data Center Liquid Cooling Fluids Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Data Center Liquid Cooling Fluids Market, Segmentation by Type:

Water-Glycol Coolant

Synthetic Hydrocarbon Fluid

Ester-Based Dielectric Fluid

Fluorinated Specialty Fluid

Global Data Center Liquid Cooling Fluids Market, Segmentation by Cooling

Architecture:

Direct-To-Chip Cooling Fluid

Single-Phase Immersion Fluid

Two-Phase Immersion Fluid

Global Data Center Liquid Cooling Fluids Market, Segmentation by Electrical Property:

Conductive Secondary Loop Fluid

Dielectric Immersion Fluid

Low-Conductivity Specialty Coolant

Global Data Center Liquid Cooling Fluids Market, Segmentation by Application:

AI Data Centers

High-Performance Computing

Others

Companies Profiled:

Shell

ExxonMobil Product Solutions

Castrol

Lubrizol

FUCHS

Cargill

ENEOS

TotalEnergies

Dow

Chemours

Syensqo

3M

Submer

Engineered Fluids

M&I Materials

Key Questions Answered:

1. How big is the global Data Center Liquid Cooling Fluids market?
2. What is the demand of the global Data Center Liquid Cooling Fluids market?
3. What is the year over year growth of the global Data Center Liquid Cooling Fluids market?
4. What is the production and production value of the global Data Center Liquid Cooling Fluids market?
5. Who are the key producers in the global Data Center Liquid Cooling Fluids market?
6. What are the growth factors driving the market demand?

Contents

1 SUPPLY SUMMARY

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

2 DEMAND SUMMARY

- 2.1 World Data Center Liquid Cooling Fluids Demand (2021-2032)
- 2.2 World Data Center Liquid Cooling Fluids Consumption by Region
 - 2.2.1 World Data Center Liquid Cooling Fluids Consumption by Region (2021-2026)
 - 2.2.2 World Data Center Liquid Cooling Fluids Consumption Forecast by Region (2027-2032)
- 2.3 United States Data Center Liquid Cooling Fluids Consumption (2021-2032)
- 2.4 China Data Center Liquid Cooling Fluids Consumption (2021-2032)
- 2.5 Europe Data Center Liquid Cooling Fluids Consumption (2021-2032)
- 2.6 Japan Data Center Liquid Cooling Fluids Consumption (2021-2032)
- 2.7 South Korea Data Center Liquid Cooling Fluids Consumption (2021-2032)
- 2.8 ASEAN Data Center Liquid Cooling Fluids Consumption (2021-2032)
- 2.9 India Data Center Liquid Cooling Fluids Consumption (2021-2032)

3 WORLD MANUFACTURERS COMPETITIVE ANALYSIS

- 3.1 World Data Center Liquid Cooling Fluids Production Value by Manufacturer (2021-2026)
- 3.2 World Data Center Liquid Cooling Fluids Production by Manufacturer (2021-2026)
- 3.3 World Data Center Liquid Cooling Fluids Average Price by Manufacturer (2021-2026)
- 3.4 Data Center Liquid Cooling Fluids Company Evaluation Quadrant
- 3.5 Industry Rank and Concentration Rate (CR)
 - 3.5.1 Global Data Center Liquid Cooling Fluids Industry Rank of Major Manufacturers
 - 3.5.2 Global Concentration Ratios (CR4) for Data Center Liquid Cooling Fluids in 2025
 - 3.5.3 Global Concentration Ratios (CR8) for Data Center Liquid Cooling Fluids in 2025
- 3.6 Data Center Liquid Cooling Fluids Market: Overall Company Footprint Analysis
 - 3.6.1 Data Center Liquid Cooling Fluids Market: Region Footprint
 - 3.6.2 Data Center Liquid Cooling Fluids Market: Company Product Type Footprint
 - 3.6.3 Data Center Liquid Cooling Fluids 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: Data Center Liquid Cooling Fluids Production Value Comparison
 - 4.1.1 United States VS China: Data Center Liquid Cooling Fluids Production Value Comparison (2021 & 2025 & 2032)
 - 4.1.2 United States VS China: Data Center Liquid Cooling Fluids Production Value Market Share Comparison (2021 & 2025 & 2032)
- 4.2 United States VS China: Data Center Liquid Cooling Fluids Production Comparison
 - 4.2.1 United States VS China: Data Center Liquid Cooling Fluids Production Comparison (2021 & 2025 & 2032)
 - 4.2.2 United States VS China: Data Center Liquid Cooling Fluids Production Market Share Comparison (2021 & 2025 & 2032)
- 4.3 United States VS China: Data Center Liquid Cooling Fluids Consumption Comparison
 - 4.3.1 United States VS China: Data Center Liquid Cooling Fluids Consumption Comparison (2021 & 2025 & 2032)

4.3.2 United States VS China: Data Center Liquid Cooling Fluids Consumption Market Share Comparison (2021 & 2025 & 2032)

4.4 United States Based Data Center Liquid Cooling Fluids Manufacturers and Market Share, 2021-2026

4.4.1 United States Based Data Center Liquid Cooling Fluids Manufacturers, Headquarters and Production Site (States, Country)

4.4.2 United States Based Manufacturers Data Center Liquid Cooling Fluids Production Value (2021-2026)

4.4.3 United States Based Manufacturers Data Center Liquid Cooling Fluids Production (2021-2026)

4.5 China Based Data Center Liquid Cooling Fluids Manufacturers and Market Share

4.5.1 China Based Data Center Liquid Cooling Fluids Manufacturers, Headquarters and Production Site (Province, Country)

4.5.2 China Based Manufacturers Data Center Liquid Cooling Fluids Production Value (2021-2026)

4.5.3 China Based Manufacturers Data Center Liquid Cooling Fluids Production (2021-2026)

4.6 Rest of World Based Data Center Liquid Cooling Fluids Manufacturers and Market Share, 2021-2026

4.6.1 Rest of World Based Data Center Liquid Cooling Fluids Manufacturers, Headquarters and Production Site (State, Country)

4.6.2 Rest of World Based Manufacturers Data Center Liquid Cooling Fluids Production Value (2021-2026)

4.6.3 Rest of World Based Manufacturers Data Center Liquid Cooling Fluids Production (2021-2026)

5 MARKET ANALYSIS BY TYPE

5.1 World Data Center Liquid Cooling Fluids Market Size Overview by Type: 2021 VS 2025 VS 2032

5.2 Segment Introduction by Type

5.2.1 Water-Glycol Coolant

5.2.2 Synthetic Hydrocarbon Fluid

5.2.3 Ester-Based Dielectric Fluid

5.2.4 Fluorinated Specialty Fluid

5.3 Market Segment by Type

5.3.1 World Data Center Liquid Cooling Fluids Production by Type (2021-2032)

5.3.2 World Data Center Liquid Cooling Fluids Production Value by Type (2021-2032)

5.3.3 World Data Center Liquid Cooling Fluids Average Price by Type (2021-2032)

6 MARKET ANALYSIS BY COOLING ARCHITECTURE

6.1 World Data Center Liquid Cooling Fluids Market Size Overview by Cooling Architecture: 2021 VS 2025 VS 2032

6.2 Segment Introduction by Cooling Architecture

6.2.1 Direct-To-Chip Cooling Fluid

6.2.2 Single-Phase Immersion Fluid

6.2.3 Two-Phase Immersion Fluid

6.3 Market Segment by Cooling Architecture

6.3.1 World Data Center Liquid Cooling Fluids Production by Cooling Architecture (2021-2032)

6.3.2 World Data Center Liquid Cooling Fluids Production Value by Cooling Architecture (2021-2032)

6.3.3 World Data Center Liquid Cooling Fluids Average Price by Cooling Architecture (2021-2032)

7 MARKET ANALYSIS BY ELECTRICAL PROPERTY

7.1 World Data Center Liquid Cooling Fluids Market Size Overview by Electrical Property: 2021 VS 2025 VS 2032

7.2 Segment Introduction by Electrical Property

7.2.1 Conductive Secondary Loop Fluid

7.2.2 Dielectric Immersion Fluid

7.2.3 Low-Conductivity Specialty Coolant

7.3 Market Segment by Electrical Property

7.3.1 World Data Center Liquid Cooling Fluids Production by Electrical Property (2021-2032)

7.3.2 World Data Center Liquid Cooling Fluids Production Value by Electrical Property (2021-2032)

7.3.3 World Data Center Liquid Cooling Fluids Average Price by Electrical Property (2021-2032)

8 MARKET ANALYSIS BY APPLICATION

8.1 World Data Center Liquid Cooling Fluids Market Size Overview by Application: 2021 VS 2025 VS 2032

8.2 Segment Introduction by Application

8.2.1 AI Data Centers

8.2.2 High-Performance Computing

8.2.3 Others

8.3 Market Segment by Application

8.3.1 World Data Center Liquid Cooling Fluids Production by Application (2021-2032)

8.3.2 World Data Center Liquid Cooling Fluids Production Value by Application (2021-2032)

8.3.3 World Data Center Liquid Cooling Fluids Average Price by Application (2021-2032)

9 COMPANY PROFILES

9.1 Shell

9.1.1 Shell Details

9.1.2 Shell Major Business

9.1.3 Shell Data Center Liquid Cooling Fluids Product and Services

9.1.4 Shell Data Center Liquid Cooling Fluids Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.1.5 Shell Recent Developments/Updates

9.1.6 Shell Competitive Strengths & Weaknesses

9.2 ExxonMobil Product Solutions

9.2.1 ExxonMobil Product Solutions Details

9.2.2 ExxonMobil Product Solutions Major Business

9.2.3 ExxonMobil Product Solutions Data Center Liquid Cooling Fluids Product and Services

9.2.4 ExxonMobil Product Solutions Data Center Liquid Cooling Fluids Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.2.5 ExxonMobil Product Solutions Recent Developments/Updates

9.2.6 ExxonMobil Product Solutions Competitive Strengths & Weaknesses

9.3 Castrol

9.3.1 Castrol Details

9.3.2 Castrol Major Business

9.3.3 Castrol Data Center Liquid Cooling Fluids Product and Services

9.3.4 Castrol Data Center Liquid Cooling Fluids Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.3.5 Castrol Recent Developments/Updates

9.3.6 Castrol Competitive Strengths & Weaknesses

9.4 Lubrizol

9.4.1 Lubrizol Details

9.4.2 Lubrizol Major Business

- 9.4.3 Lubrizol Data Center Liquid Cooling Fluids Product and Services
- 9.4.4 Lubrizol Data Center Liquid Cooling Fluids Production, Price, Value, Gross Margin and Market Share (2021-2026)
- 9.4.5 Lubrizol Recent Developments/Updates
- 9.4.6 Lubrizol Competitive Strengths & Weaknesses
- 9.5 FUCHS
 - 9.5.1 FUCHS Details
 - 9.5.2 FUCHS Major Business
 - 9.5.3 FUCHS Data Center Liquid Cooling Fluids Product and Services
 - 9.5.4 FUCHS Data Center Liquid Cooling Fluids Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.5.5 FUCHS Recent Developments/Updates
 - 9.5.6 FUCHS Competitive Strengths & Weaknesses
- 9.6 Cargill
 - 9.6.1 Cargill Details
 - 9.6.2 Cargill Major Business
 - 9.6.3 Cargill Data Center Liquid Cooling Fluids Product and Services
 - 9.6.4 Cargill Data Center Liquid Cooling Fluids Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.6.5 Cargill Recent Developments/Updates
 - 9.6.6 Cargill Competitive Strengths & Weaknesses
- 9.7 ENEOS
 - 9.7.1 ENEOS Details
 - 9.7.2 ENEOS Major Business
 - 9.7.3 ENEOS Data Center Liquid Cooling Fluids Product and Services
 - 9.7.4 ENEOS Data Center Liquid Cooling Fluids Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.7.5 ENEOS Recent Developments/Updates
 - 9.7.6 ENEOS Competitive Strengths & Weaknesses
- 9.8 TotalEnergies
 - 9.8.1 TotalEnergies Details
 - 9.8.2 TotalEnergies Major Business
 - 9.8.3 TotalEnergies Data Center Liquid Cooling Fluids Product and Services
 - 9.8.4 TotalEnergies Data Center Liquid Cooling Fluids Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.8.5 TotalEnergies Recent Developments/Updates
 - 9.8.6 TotalEnergies Competitive Strengths & Weaknesses
- 9.9 Dow
 - 9.9.1 Dow Details

- 9.9.2 Dow Major Business
- 9.9.3 Dow Data Center Liquid Cooling Fluids Product and Services
- 9.9.4 Dow Data Center Liquid Cooling Fluids Production, Price, Value, Gross Margin and Market Share (2021-2026)
- 9.9.5 Dow Recent Developments/Updates
- 9.9.6 Dow Competitive Strengths & Weaknesses
- 9.10 Chemours
- 9.10.1 Chemours Details
- 9.10.2 Chemours Major Business
- 9.10.3 Chemours Data Center Liquid Cooling Fluids Product and Services
- 9.10.4 Chemours Data Center Liquid Cooling Fluids Production, Price, Value, Gross Margin and Market Share (2021-2026)
- 9.10.5 Chemours Recent Developments/Updates
- 9.10.6 Chemours Competitive Strengths & Weaknesses
- 9.11 Syensqo
- 9.11.1 Syensqo Details
- 9.11.2 Syensqo Major Business
- 9.11.3 Syensqo Data Center Liquid Cooling Fluids Product and Services
- 9.11.4 Syensqo Data Center Liquid Cooling Fluids Production, Price, Value, Gross Margin and Market Share (2021-2026)
- 9.11.5 Syensqo Recent Developments/Updates
- 9.11.6 Syensqo Competitive Strengths & Weaknesses
- 9.12 3M
- 9.12.1 3M Details
- 9.12.2 3M Major Business
- 9.12.3 3M Data Center Liquid Cooling Fluids Product and Services
- 9.12.4 3M Data Center Liquid Cooling Fluids Production, Price, Value, Gross Margin and Market Share (2021-2026)
- 9.12.5 3M Recent Developments/Updates
- 9.12.6 3M Competitive Strengths & Weaknesses
- 9.13 Submer
- 9.13.1 Submer Details
- 9.13.2 Submer Major Business
- 9.13.3 Submer Data Center Liquid Cooling Fluids Product and Services
- 9.13.4 Submer Data Center Liquid Cooling Fluids Production, Price, Value, Gross Margin and Market Share (2021-2026)
- 9.13.5 Submer Recent Developments/Updates
- 9.13.6 Submer Competitive Strengths & Weaknesses
- 9.14 Engineered Fluids

- 9.14.1 Engineered Fluids Details
- 9.14.2 Engineered Fluids Major Business
- 9.14.3 Engineered Fluids Data Center Liquid Cooling Fluids Product and Services
- 9.14.4 Engineered Fluids Data Center Liquid Cooling Fluids Production, Price, Value, Gross Margin and Market Share (2021-2026)
- 9.14.5 Engineered Fluids Recent Developments/Updates
- 9.14.6 Engineered Fluids Competitive Strengths & Weaknesses
- 9.15 M&I Materials
- 9.15.1 M&I Materials Details
- 9.15.2 M&I Materials Major Business
- 9.15.3 M&I Materials Data Center Liquid Cooling Fluids Product and Services
- 9.15.4 M&I Materials Data Center Liquid Cooling Fluids Production, Price, Value, Gross Margin and Market Share (2021-2026)
- 9.15.5 M&I Materials Recent Developments/Updates
- 9.15.6 M&I Materials Competitive Strengths & Weaknesses

10 INDUSTRY CHAIN ANALYSIS

- 10.1 Data Center Liquid Cooling Fluids Industry Chain
- 10.2 Data Center Liquid Cooling Fluids Upstream Analysis
 - 10.2.1 Data Center Liquid Cooling Fluids Core Raw Materials
 - 10.2.2 Main Manufacturers of Data Center Liquid Cooling Fluids Core Raw Materials
- 10.3 Midstream Analysis
- 10.4 Downstream Analysis
- 10.5 Data Center Liquid Cooling Fluids Production Mode
- 10.6 Data Center Liquid Cooling Fluids Procurement Model
- 10.7 Data Center Liquid Cooling Fluids Industry Sales Model and Sales Channels
 - 10.7.1 Data Center Liquid Cooling Fluids Sales Model
 - 10.7.2 Data Center Liquid Cooling Fluids 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 Data Center Liquid Cooling Fluids Production Value by Region (2021, 2025 and 2032) & (USD Million)

Table 2. World Data Center Liquid Cooling Fluids Production Value by Region (2021-2026) & (USD Million)

Table 3. World Data Center Liquid Cooling Fluids Production Value by Region (2027-2032) & (USD Million)

Table 4. World Data Center Liquid Cooling Fluids Production Value Market Share by Region (2021-2026)

Table 5. World Data Center Liquid Cooling Fluids Production Value Market Share by Region (2027-2032)

Table 6. World Data Center Liquid Cooling Fluids Production by Region (2021-2026) & (Kilotons)

Table 7. World Data Center Liquid Cooling Fluids Production by Region (2027-2032) & (Kilotons)

Table 8. World Data Center Liquid Cooling Fluids Production Market Share by Region (2021-2026)

Table 9. World Data Center Liquid Cooling Fluids Production Market Share by Region (2027-2032)

Table 10. World Data Center Liquid Cooling Fluids Average Price by Region (2021-2026) & (US\$/Ton)

Table 11. World Data Center Liquid Cooling Fluids Average Price by Region (2027-2032) & (US\$/Ton)

Table 12. Data Center Liquid Cooling Fluids Major Market Trends

Table 13. World Data Center Liquid Cooling Fluids Consumption Growth Rate Forecast by Region (2021 & 2025 & 2032) & (Kilotons)

Table 14. World Data Center Liquid Cooling Fluids Consumption by Region (2021-2026) & (Kilotons)

Table 15. World Data Center Liquid Cooling Fluids Consumption Forecast by Region (2027-2032) & (Kilotons)

Table 16. World Data Center Liquid Cooling Fluids Production Value by Manufacturer (2021-2026) & (USD Million)

Table 17. Production Value Market Share of Key Data Center Liquid Cooling Fluids Producers in 2025

Table 18. World Data Center Liquid Cooling Fluids Production by Manufacturer (2021-2026) & (Kilotons)

Table 19. Production Market Share of Key Data Center Liquid Cooling Fluids Producers in 2025

Table 20. World Data Center Liquid Cooling Fluids Average Price by Manufacturer (2021-2026) & (US\$/Ton)

Table 21. Global Data Center Liquid Cooling Fluids Company Evaluation Quadrant

Table 22. World Data Center Liquid Cooling Fluids Industry Rank of Major Manufacturers, Based on Production Value in 2025

Table 23. Head Office and Data Center Liquid Cooling Fluids Production Site of Key Manufacturer

Table 24. Data Center Liquid Cooling Fluids Market: Company Product Type Footprint

Table 25. Data Center Liquid Cooling Fluids Market: Company Product Application Footprint

Table 26. Data Center Liquid Cooling Fluids Competitive Factors

Table 27. Data Center Liquid Cooling Fluids New Entrant and Capacity Expansion Plans

Table 28. Data Center Liquid Cooling Fluids Mergers & Acquisitions Activity

Table 29. United States VS China Data Center Liquid Cooling Fluids Production Value Comparison, (2021 & 2025 & 2032) & (USD Million)

Table 30. United States VS China Data Center Liquid Cooling Fluids Production Comparison, (2021 & 2025 & 2032) & (Kilotons)

Table 31. United States VS China Data Center Liquid Cooling Fluids Consumption Comparison, (2021 & 2025 & 2032) & (Kilotons)

Table 32. United States Based Data Center Liquid Cooling Fluids Manufacturers, Headquarters and Production Site (States, Country)

Table 33. United States Based Manufacturers Data Center Liquid Cooling Fluids Production Value, (2021-2026) & (USD Million)

Table 34. United States Based Manufacturers Data Center Liquid Cooling Fluids Production Value Market Share (2021-2026)

Table 35. United States Based Manufacturers Data Center Liquid Cooling Fluids Production (2021-2026) & (Kilotons)

Table 36. United States Based Manufacturers Data Center Liquid Cooling Fluids Production Market Share (2021-2026)

Table 37. China Based Data Center Liquid Cooling Fluids Manufacturers, Headquarters and Production Site (Province, Country)

Table 38. China Based Manufacturers Data Center Liquid Cooling Fluids Production Value, (2021-2026) & (USD Million)

Table 39. China Based Manufacturers Data Center Liquid Cooling Fluids Production Value Market Share (2021-2026)

Table 40. China Based Manufacturers Data Center Liquid Cooling Fluids Production,

(2021-2026) & (Kilotons)

Table 41. China Based Manufacturers Data Center Liquid Cooling Fluids Production Market Share (2021-2026)

Table 42. Rest of World Based Data Center Liquid Cooling Fluids Manufacturers, Headquarters and Production Site (State, Country)

Table 43. Rest of World Based Manufacturers Data Center Liquid Cooling Fluids Production Value, (2021-2026) & (USD Million)

Table 44. Rest of World Based Manufacturers Data Center Liquid Cooling Fluids Production Value Market Share (2021-2026)

Table 45. Rest of World Based Manufacturers Data Center Liquid Cooling Fluids Production, (2021-2026) & (Kilotons)

Table 46. Rest of World Based Manufacturers Data Center Liquid Cooling Fluids Production Market Share (2021-2026)

Table 47. World Data Center Liquid Cooling Fluids Production Value by Type, (USD Million), 2021 & 2025 & 2032

Table 48. World Data Center Liquid Cooling Fluids Production by Type (2021-2026) & (Kilotons)

Table 49. World Data Center Liquid Cooling Fluids Production by Type (2027-2032) & (Kilotons)

Table 50. World Data Center Liquid Cooling Fluids Production Value by Type (2021-2026) & (USD Million)

Table 51. World Data Center Liquid Cooling Fluids Production Value by Type (2027-2032) & (USD Million)

Table 52. World Data Center Liquid Cooling Fluids Average Price by Type (2021-2026) & (US\$/Ton)

Table 53. World Data Center Liquid Cooling Fluids Average Price by Type (2027-2032) & (US\$/Ton)

Table 54. World Data Center Liquid Cooling Fluids Production Value by Cooling Architecture, (USD Million), 2021 & 2025 & 2032

Table 55. World Data Center Liquid Cooling Fluids Production by Cooling Architecture (2021-2026) & (Kilotons)

Table 56. World Data Center Liquid Cooling Fluids Production by Cooling Architecture (2027-2032) & (Kilotons)

Table 57. World Data Center Liquid Cooling Fluids Production Value by Cooling Architecture (2021-2026) & (USD Million)

Table 58. World Data Center Liquid Cooling Fluids Production Value by Cooling Architecture (2027-2032) & (USD Million)

Table 59. World Data Center Liquid Cooling Fluids Average Price by Cooling Architecture (2021-2026) & (US\$/Ton)

Table 60. World Data Center Liquid Cooling Fluids Average Price by Cooling Architecture (2027-2032) & (US\$/Ton)

Table 61. World Data Center Liquid Cooling Fluids Production Value by Electrical Property, (USD Million), 2021 & 2025 & 2032

Table 62. World Data Center Liquid Cooling Fluids Production by Electrical Property (2021-2026) & (Kilotons)

Table 63. World Data Center Liquid Cooling Fluids Production by Electrical Property (2027-2032) & (Kilotons)

Table 64. World Data Center Liquid Cooling Fluids Production Value by Electrical Property (2021-2026) & (USD Million)

Table 65. World Data Center Liquid Cooling Fluids Production Value by Electrical Property (2027-2032) & (USD Million)

Table 66. World Data Center Liquid Cooling Fluids Average Price by Electrical Property (2021-2026) & (US\$/Ton)

Table 67. World Data Center Liquid Cooling Fluids Average Price by Electrical Property (2027-2032) & (US\$/Ton)

Table 68. World Data Center Liquid Cooling Fluids Production Value by Application, (USD Million), 2021 & 2025 & 2032

Table 69. World Data Center Liquid Cooling Fluids Production by Application (2021-2026) & (Kilotons)

Table 70. World Data Center Liquid Cooling Fluids Production by Application (2027-2032) & (Kilotons)

Table 71. World Data Center Liquid Cooling Fluids Production Value by Application (2021-2026) & (USD Million)

Table 72. World Data Center Liquid Cooling Fluids Production Value by Application (2027-2032) & (USD Million)

Table 73. World Data Center Liquid Cooling Fluids Average Price by Application (2021-2026) & (US\$/Ton)

Table 74. World Data Center Liquid Cooling Fluids Average Price by Application (2027-2032) & (US\$/Ton)

Table 75. Shell Basic Information, Manufacturing Base and Competitors

Table 76. Shell Major Business

Table 77. Shell Data Center Liquid Cooling Fluids Product and Services

Table 78. Shell Data Center Liquid Cooling Fluids Production (Kilotons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 79. Shell Recent Developments/Updates

Table 80. Shell Competitive Strengths & Weaknesses

Table 81. ExxonMobil Product Solutions Basic Information, Manufacturing Base and

Competitors

Table 82. ExxonMobil Product Solutions Major Business

Table 83. ExxonMobil Product Solutions Data Center Liquid Cooling Fluids Product and Services

Table 84. ExxonMobil Product Solutions Data Center Liquid Cooling Fluids Production (Kilotons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 85. ExxonMobil Product Solutions Recent Developments/Updates

Table 86. ExxonMobil Product Solutions Competitive Strengths & Weaknesses

Table 87. Castrol Basic Information, Manufacturing Base and Competitors

Table 88. Castrol Major Business

Table 89. Castrol Data Center Liquid Cooling Fluids Product and Services

Table 90. Castrol Data Center Liquid Cooling Fluids Production (Kilotons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 91. Castrol Recent Developments/Updates

Table 92. Castrol Competitive Strengths & Weaknesses

Table 93. Lubrizol Basic Information, Manufacturing Base and Competitors

Table 94. Lubrizol Major Business

Table 95. Lubrizol Data Center Liquid Cooling Fluids Product and Services

Table 96. Lubrizol Data Center Liquid Cooling Fluids Production (Kilotons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 97. Lubrizol Recent Developments/Updates

Table 98. Lubrizol Competitive Strengths & Weaknesses

Table 99. FUCHS Basic Information, Manufacturing Base and Competitors

Table 100. FUCHS Major Business

Table 101. FUCHS Data Center Liquid Cooling Fluids Product and Services

Table 102. FUCHS Data Center Liquid Cooling Fluids Production (Kilotons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 103. FUCHS Recent Developments/Updates

Table 104. FUCHS Competitive Strengths & Weaknesses

Table 105. Cargill Basic Information, Manufacturing Base and Competitors

Table 106. Cargill Major Business

Table 107. Cargill Data Center Liquid Cooling Fluids Product and Services

Table 108. Cargill Data Center Liquid Cooling Fluids Production (Kilotons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 109. Cargill Recent Developments/Updates
Table 110. Cargill Competitive Strengths & Weaknesses
Table 111. ENEOS Basic Information, Manufacturing Base and Competitors
Table 112. ENEOS Major Business
Table 113. ENEOS Data Center Liquid Cooling Fluids Product and Services
Table 114. ENEOS Data Center Liquid Cooling Fluids Production (Kilotons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 115. ENEOS Recent Developments/Updates
Table 116. ENEOS Competitive Strengths & Weaknesses
Table 117. TotalEnergies Basic Information, Manufacturing Base and Competitors
Table 118. TotalEnergies Major Business
Table 119. TotalEnergies Data Center Liquid Cooling Fluids Product and Services
Table 120. TotalEnergies Data Center Liquid Cooling Fluids Production (Kilotons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 121. TotalEnergies Recent Developments/Updates
Table 122. TotalEnergies Competitive Strengths & Weaknesses
Table 123. Dow Basic Information, Manufacturing Base and Competitors
Table 124. Dow Major Business
Table 125. Dow Data Center Liquid Cooling Fluids Product and Services
Table 126. Dow Data Center Liquid Cooling Fluids Production (Kilotons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 127. Dow Recent Developments/Updates
Table 128. Dow Competitive Strengths & Weaknesses
Table 129. Chemours Basic Information, Manufacturing Base and Competitors
Table 130. Chemours Major Business
Table 131. Chemours Data Center Liquid Cooling Fluids Product and Services
Table 132. Chemours Data Center Liquid Cooling Fluids Production (Kilotons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 133. Chemours Recent Developments/Updates
Table 134. Chemours Competitive Strengths & Weaknesses
Table 135. Syensqo Basic Information, Manufacturing Base and Competitors
Table 136. Syensqo Major Business
Table 137. Syensqo Data Center Liquid Cooling Fluids Product and Services
Table 138. Syensqo Data Center Liquid Cooling Fluids Production (Kilotons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share

(2021-2026)

Table 139. Syensqo Recent Developments/Updates

Table 140. Syensqo Competitive Strengths & Weaknesses

Table 141. 3M Basic Information, Manufacturing Base and Competitors

Table 142. 3M Major Business

Table 143. 3M Data Center Liquid Cooling Fluids Product and Services

Table 144. 3M Data Center Liquid Cooling Fluids Production (Kilotons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 145. 3M Recent Developments/Updates

Table 146. 3M Competitive Strengths & Weaknesses

Table 147. Submer Basic Information, Manufacturing Base and Competitors

Table 148. Submer Major Business

Table 149. Submer Data Center Liquid Cooling Fluids Product and Services

Table 150. Submer Data Center Liquid Cooling Fluids Production (Kilotons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 151. Submer Recent Developments/Updates

Table 152. Submer Competitive Strengths & Weaknesses

Table 153. Engineered Fluids Basic Information, Manufacturing Base and Competitors

Table 154. Engineered Fluids Major Business

Table 155. Engineered Fluids Data Center Liquid Cooling Fluids Product and Services

Table 156. Engineered Fluids Data Center Liquid Cooling Fluids Production (Kilotons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 157. Engineered Fluids Recent Developments/Updates

Table 158. Engineered Fluids Competitive Strengths & Weaknesses

Table 159. M&I Materials Basic Information, Manufacturing Base and Competitors

Table 160. M&I Materials Major Business

Table 161. M&I Materials Data Center Liquid Cooling Fluids Product and Services

Table 162. M&I Materials Data Center Liquid Cooling Fluids Production (Kilotons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 163. M&I Materials Recent Developments/Updates

Table 164. M&I Materials Competitive Strengths & Weaknesses

Table 165. Global Key Players of Data Center Liquid Cooling Fluids Upstream (Raw Materials)

Table 166. Global Data Center Liquid Cooling Fluids Typical Customers

Table 167. Data Center Liquid Cooling Fluids Typical Distributors

List Of Figures

LIST OF FIGURES

Figure 1. Data Center Liquid Cooling Fluids Picture

Figure 2. World Data Center Liquid Cooling Fluids Production Value: 2021 & 2025 & 2032, (USD Million)

Figure 3. World Data Center Liquid Cooling Fluids Production Value and Forecast (2021-2032) & (USD Million)

Figure 4. World Data Center Liquid Cooling Fluids Production (2021-2032) & (Kilotons)

Figure 5. World Data Center Liquid Cooling Fluids Average Price (2021-2032) & (US\$/Ton)

Figure 6. World Data Center Liquid Cooling Fluids Production Value Market Share by Region (2021-2032)

Figure 7. World Data Center Liquid Cooling Fluids Production Market Share by Region (2021-2032)

Figure 8. North America Data Center Liquid Cooling Fluids Production (2021-2032) & (Kilotons)

Figure 9. Europe Data Center Liquid Cooling Fluids Production (2021-2032) & (Kilotons)

Figure 10. China Data Center Liquid Cooling Fluids Production (2021-2032) & (Kilotons)

Figure 11. Japan Data Center Liquid Cooling Fluids Production (2021-2032) & (Kilotons)

Figure 12. Data Center Liquid Cooling Fluids Market Drivers

Figure 13. Factors Affecting Demand

Figure 14. World Data Center Liquid Cooling Fluids Consumption (2021-2032) & (Kilotons)

Figure 15. World Data Center Liquid Cooling Fluids Consumption Market Share by Region (2021-2032)

Figure 16. United States Data Center Liquid Cooling Fluids Consumption (2021-2032) & (Kilotons)

Figure 17. China Data Center Liquid Cooling Fluids Consumption (2021-2032) & (Kilotons)

Figure 18. Europe Data Center Liquid Cooling Fluids Consumption (2021-2032) & (Kilotons)

Figure 19. Japan Data Center Liquid Cooling Fluids Consumption (2021-2032) & (Kilotons)

Figure 20. South Korea Data Center Liquid Cooling Fluids Consumption (2021-2032) & (Kilotons)

Figure 21. ASEAN Data Center Liquid Cooling Fluids Consumption (2021-2032) & (Kilotons)

Figure 22. India Data Center Liquid Cooling Fluids Consumption (2021-2032) & (Kilotons)

Figure 23. Producer Shipments of Data Center Liquid Cooling Fluids by Manufacturer Revenue (\$MM) and Market Share (%): 2025

Figure 24. Global Four-firm Concentration Ratios (CR4) for Data Center Liquid Cooling Fluids Markets in 2025

Figure 25. Global Four-firm Concentration Ratios (CR8) for Data Center Liquid Cooling Fluids Markets in 2025

Figure 26. United States VS China: Data Center Liquid Cooling Fluids Production Value Market Share Comparison (2021 & 2025 & 2032)

Figure 27. United States VS China: Data Center Liquid Cooling Fluids Production Market Share Comparison (2021 & 2025 & 2032)

Figure 28. United States VS China: Data Center Liquid Cooling Fluids Consumption Market Share Comparison (2021 & 2025 & 2032)

Figure 29. United States Based Manufacturers Data Center Liquid Cooling Fluids Production Market Share 2025

Figure 30. China Based Manufacturers Data Center Liquid Cooling Fluids Production Market Share 2025

Figure 31. Rest of World Based Manufacturers Data Center Liquid Cooling Fluids Production Market Share 2025

Figure 32. World Data Center Liquid Cooling Fluids Production Value by Type, (USD Million), 2021 & 2025 & 2032

Figure 33. World Data Center Liquid Cooling Fluids Production Value Market Share by Type in 2025

Figure 34. Water-Glycol Coolant

Figure 35. Synthetic Hydrocarbon Fluid

Figure 36. Ester-Based Dielectric Fluid

Figure 37. Fluorinated Specialty Fluid

Figure 38. World Data Center Liquid Cooling Fluids Production Market Share by Type (2021-2032)

Figure 39. World Data Center Liquid Cooling Fluids Production Value Market Share by Type (2021-2032)

Figure 40. World Data Center Liquid Cooling Fluids Average Price by Type (2021-2032) & (US\$/Ton)

Figure 41. World Data Center Liquid Cooling Fluids Production Value by Cooling Architecture, (USD Million), 2021 & 2025 & 2032

Figure 42. World Data Center Liquid Cooling Fluids Production Value Market Share by Cooling Architecture in 2025

Figure 43. Direct-To-Chip Cooling Fluid

Figure 44. Single-Phase Immersion Fluid

Figure 45. Two-Phase Immersion Fluid

Figure 46. World Data Center Liquid Cooling Fluids Production Market Share by Cooling Architecture (2021-2032)

Figure 47. World Data Center Liquid Cooling Fluids Production Value Market Share by Cooling Architecture (2021-2032)

Figure 48. World Data Center Liquid Cooling Fluids Average Price by Cooling Architecture (2021-2032) & (US\$/Ton)

Figure 49. World Data Center Liquid Cooling Fluids Production Value by Electrical Property, (USD Million), 2021 & 2025 & 2032

Figure 50. World Data Center Liquid Cooling Fluids Production Value Market Share by Electrical Property in 2025

Figure 51. Conductive Secondary Loop Fluid

Figure 52. Dielectric Immersion Fluid

Figure 53. Low-Conductivity Specialty Coolant

Figure 54. World Data Center Liquid Cooling Fluids Production Market Share by Electrical Property (2021-2032)

Figure 55. World Data Center Liquid Cooling Fluids Production Value Market Share by Electrical Property (2021-2032)

Figure 56. World Data Center Liquid Cooling Fluids Average Price by Electrical Property (2021-2032) & (US\$/Ton)

Figure 57. World Data Center Liquid Cooling Fluids Production Value by Application, (USD Million), 2021 & 2025 & 2032

Figure 58. World Data Center Liquid Cooling Fluids Production Value Market Share by Application in 2025

Figure 59. AI Data Centers

Figure 60. High-Performance Computing

Figure 61. Others

Figure 62. World Data Center Liquid Cooling Fluids Production Market Share by Application (2021-2032)

Figure 63. World Data Center Liquid Cooling Fluids Production Value Market Share by Application (2021-2032)

Figure 64. World Data Center Liquid Cooling Fluids Average Price by Application (2021-2032) & (US\$/Ton)

Figure 65. Data Center Liquid Cooling Fluids Industry Chain

Figure 66. Data Center Liquid Cooling Fluids Procurement Model

Figure 67. Data Center Liquid Cooling Fluids Sales Model

Figure 68. Data Center Liquid Cooling Fluids Sales Channels, Direct Sales, and Distribution

Figure 69. Methodology

Figure 70. Research Process and Data Source

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