

Global Single-Phase Immersion Cooling Fluid for Data Centers Supply, Demand and Key Producers, 2026-2032

<https://marketpublishers.com/r/G896B079B019EN.html>

Date: August 2026

Pages: 147

Price: US\$ 4,480.00 (Single User License)

ID: G896B079B019EN

Abstracts

The global Single-Phase Immersion Cooling Fluid for Data Centers market size is expected to reach \$ 501 million by 2032, rising at a market growth of 15.3% CAGR during the forecast period (2026-2032).

Single-phase immersion cooling fluid for data centers are a class of highly insulating, highly stable heat transfer media designed specifically for single-phase immersion liquid cooling systems. These fluids allow electronic components?such as servers, GPUs, CPUs, memory modules, and power supplies?to be fully submerged; the fluid remains in a liquid state throughout the cooling process without boiling or undergoing phase changes. Heat generated by the equipment is transferred via fluid circulation to a heat exchanger and subsequently dissipated by the cooling system, thereby achieving efficient, uniform, and low-energy thermal management.

The upstream segment of the industry chain primarily comprises basic chemical raw materials and specialty base oil systems?such as polyalphaolefins (PAO), isoalkanes, ester oils, mineral base oils, and fluorinated inert liquids?as well as key additives (antioxidants, inhibitors, and stabilizers) and related fine chemical production equipment. The midstream segment involves the formulation design and manufacturing of single-phase immersion cooling fluids; this entails refining base oils to high purity, optimizing molecular structures, and compounding additives to produce specialized fluids characterized by high dielectric strength, low viscosity, high thermal conductivity, and excellent material compatibility, often customized to meet the specific power density requirements of different data centers. The downstream segment focuses on high-density computing applications, including AI data centers, high-performance computing (HPC) clusters, cloud computing centers, and hyperscale supercomputing centers.

In 2025, the global sales volume of single-phase immersion cooling fluid for data centers is projected to reach 22,400 metric tons, with a production capacity of approximately 32,000 metric tons; the average selling price is estimated at \$8,250 per metric ton, with an average gross margin of 30%-40%.

Policies aimed at energy conservation and emission reduction in data centers are being continuously strengthened worldwide, accelerating the shift from traditional air-cooling systems to liquid-cooling technologies. While regions like Europe and the United States drive liquid-cooling adoption through energy efficiency regulations (such as PUE limits) and green data center certification schemes, China is fast-tracking data center upgrades under initiatives like the 'East Data, West Computing' project and policies promoting green computing power. Meanwhile, industry developments such as Shell securing Intel certification, Castrol partnering with multiple data centers, and ExxonMobil conducting tests with various AI computing centers signal that the industry has entered the commercial adoption phase. Additionally, uncertainties surrounding PFAS and environmental regulations are influencing the development trajectory of fluorinated cooling fluids.

This report studies the global Single-Phase Immersion Cooling Fluid for Data Centers production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Single-Phase Immersion Cooling Fluid for Data Centers 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 Single-Phase Immersion Cooling Fluid for Data Centers that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Single-Phase Immersion Cooling Fluid for Data Centers total production and demand, 2021-2032, (Tons)

Global Single-Phase Immersion Cooling Fluid for Data Centers total production value, 2021-2032, (USD Million)

Global Single-Phase Immersion Cooling Fluid for Data Centers production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Tons), (based on production site)

Global Single-Phase Immersion Cooling Fluid for Data Centers consumption by region & country, CAGR, 2021-2032 & (Tons)

U.S. VS China: Single-Phase Immersion Cooling Fluid for Data Centers domestic production, consumption, key domestic manufacturers and share

Global Single-Phase Immersion Cooling Fluid for Data Centers production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Tons)

Global Single-Phase Immersion Cooling Fluid for Data Centers production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Tons)

Global Single-Phase Immersion Cooling Fluid for Data Centers production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Tons)

This report profiles key players in the global Single-Phase Immersion Cooling Fluid for Data Centers 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 3M, Chemours, Syensqo, Shell, Dow, ExxonMobil, Juhua Group, Hexafluo, Noah Liquid Cooling, Zhejiang Yonghe, 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 Single-Phase Immersion Cooling Fluid for Data Centers market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (Tons) 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 Single-Phase Immersion Cooling Fluid for Data Centers Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Single-Phase Immersion Cooling Fluid for Data Centers Market, Segmentation by Type:

Fluorinated Fluids

Synthetic Oils

Modified Silicone Oils

Global Single-Phase Immersion Cooling Fluid for Data Centers Market, Segmentation by Kinematic Viscosity:

?10mm²/s

10-20mm²/s

Global Single-Phase Immersion Cooling Fluid for Data Centers Market, Segmentation by Dielectric Strength:

24-30kV

30-40kV

?40kV

Global Single-Phase Immersion Cooling Fluid for Data Centers Market, Segmentation by Application:

Cloud Computing Data Centers

AI Training Data Centers

Edge Computing Data Centers

Others

Companies Profiled:

3M

Chemours

Syensqo

Shell

Dow

ExxonMobil

Juhua Group

Hexafluo

Noah Liquid Cooling

Zhejiang Yonghe

Engineered Fluids

Castrol

TotalEnergies

Lubrizol

FUCHS

Capchem

Yongtai Technology

Yuji Saifu

Tongyi Petroleum Chemical

Dick Chemical

Key Questions Answered:

1. How big is the global Single-Phase Immersion Cooling Fluid for Data Centers market?
2. What is the demand of the global Single-Phase Immersion Cooling Fluid for Data Centers market?
3. What is the year over year growth of the global Single-Phase Immersion Cooling Fluid for Data Centers market?
4. What is the production and production value of the global Single-Phase Immersion Cooling Fluid for Data Centers market?
5. Who are the key producers in the global Single-Phase Immersion Cooling Fluid for Data Centers market?
6. What are the growth factors driving the market demand?

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