

Data Center Immersion Cooling Fluids Market by Technology (Single-Phase, Two-Phase), Data Center Type (Hyperscale, AI/ML, Cryptocurrency Mining), Type (Mineral Oil, Fluorocarbon-based Fluids, Synthetic Fluids), and Region - Global Forecast to 2032

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Report description:

The global data center immersion cooling fluids market is projected to grow from USD 0.19 billion in 2025 to USD 0.84 billion by 2032, at a CAGR of 23.9% during the forecast period. The growing need for effective thermal management solutions in cloud computing, high-performance computing, and business data center sectors is propelling the market's growth. The rapid digitization and development of data-intensive applications contribute to the growing demand for scalable, reliable, and effective heat dissipation systems.

<https://www.marketsandmarkets.com/Images/data-center-immersion-cooling-fluids-market-Overview.webp>

"Fluorocarbon-based fluids are estimated to account for the second-largest share, by type, during the forecast period". Fluorocarbon fluids are expected to hold the second-largest market share in the data center immersion cooling fluids market during the forecast period, due to their better dielectric characteristics, thermal stability, and efficient heat transfer capabilities, particularly in high-density, high-performance computing systems. Such fluids are specifically used when precise and homogeneous cooling is required, such as in hyperscale and HPC data centers, where thermal load management is involved. However, their relatively higher cost and environmental limitations limit their mass usage, such as a greater global warming potential than alternatives like mineral oil-based fluids.

"Two-phase cooling is estimated to account for the second-largest share, by technology, during the forecast period".

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Two-phase cooling is projected to hold the second-largest market share in the data center immersion cooling fluids market in the forecast period, mainly because, while it delivers enhanced thermal management and power efficiency, mass adoption is hampered by significant initial capital investment and extensive infrastructural changes that have to be made for its adoption. Two-phase systems deliver enhanced cooling in high-density, mission-critical computing data centers to allow data centers to manage the high heat loads that applications like artificial intelligence and high-performance computing produce while achieving optimal energy efficiency.

"Cryptocurrency mining data centers are estimated to account for the second-largest share, by data center type, during the forecast period".

Cryptocurrency mining data centers are estimated to occupy the second-largest share in the data center market by type during the forecast period. This is primarily due to their niche role in enabling computational and power requirements for large-scale crypto mining operations. The cryptocurrency usage and investment boom has driven demand for more scalable, energy-efficient, and sophisticated mining hardware, propelling purpose-built data centers into the forefront of mining viability and profitability. Purpose-built data centers leverage the latest cooling and power technologies and economies of scale costs to enable high-volume mining economically, a necessity as solo mining becomes impractical amid growing hash rates and hardware costs.

Profile break-up of primary participants for the report:

- By Company Type: Tier 1 - 40%, Tier 2 - 35%, and Tier 3 - 25%

- By Designation: C-level- 30%, Director Level- 40%, and Others - 30%

- By Region: North America - 25%, Europe - 30%, Asia Pacific - 35%, South America - 5%, and Middle East & Africa - 5%

Chemours Company (US), FUCHS SE (Germany), The Lubrizol Corporation (US), Submer (Spain), and Inventec Performance Chemicals (France) are some of the major players operating in the data center immersion cooling fluids market. These players have adopted strategies such as acquisitions, expansions, partnerships, and agreements to increase their market share and business revenue.

Research Coverage:

The report defines, segments, and projects the data center immersion cooling fluids market based on technology, type, data center type, and region. It provides detailed information regarding the major factors influencing the market's growth, such as drivers, restraints, opportunities, and challenges. It strategically profiles data center immersion cooling fluids manufacturers and comprehensively analyzes their market shares and core competencies. It also tracks and analyzes competitive developments, such as expansions, partnerships, and new product launches, undertaken by them in the market.

Reasons to Buy the Report:

The report is expected to help the market leaders/new entrants by providing them with the closest approximations of revenue numbers of the data center immersion cooling fluids market and its segments. This report is also expected to help stakeholders understand the market's competitive landscape, gain insights to improve the position of their businesses, and develop suitable go-to-market strategies. It also enables stakeholders to understand the market's pulse and provide them with information on key market drivers, restraints, challenges, and opportunities.

The report provides insights into the following points:

- Analysis of key drivers (Expanding Data Center Market, Increasing penetration of liquid cooling technology in the data center market, further driving demand for both DTC as well as immersion cooling fluids and Increasing server rack density), restraints (Technology under development for two-phase PFAS free fluids for immersion cooling and Slower adoption in the data center applications), opportunities (Growing installation of AI based Mega Data Center, Growing demand for energy efficient cooling solutions, Sustainability Trend - Increasing pressure on data center owners/ operators to reduce carbon footprint and Increasing demand for environment friendly fluid technology, such as PFAS free and bio-based fluids), and challenges (Competition from DTC liquid cooling technology and Maintenance Challenges and Cost Burden in Immersion Cooling for Data Centers) influencing the growth of the data center immersion cooling fluids market.

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- Product Development/Innovation: Detailed insights into upcoming technologies, research & development activities in the data center immersion cooling fluids market.
- Market Development: Comprehensive information about lucrative markets - the report analyzes the data center immersion cooling fluids market across varied regions.
- Market Diversification: Exhaustive information about new products, various types, untapped geographies, recent developments, and investments in the industrial market.
- Competitive Assessment: In-depth assessment of market shares, growth strategies and product offerings of leading players such as The Chemours Company (US), FUCHS SE (Germany), Submer (Spain), The Lubrizol Corporation (US), Inventec Performance Chemicals (France), Castrol Limited (UK), Shell plc (UK), Green Revolution Cooling (US), Engineered Fluids (US), Cargill, Incorporated (US), Valvoline Global Operations (US), ENEOS Corporation (Japan), TotalEnergies (France), Dynalene, Inc. (US), DCX Liquid Cooling Systems (Poland), Honeywell International Inc. (US), Exxon Mobil Corporation (US), Dow Inc. (US), PETRONAS Lubricants International (Malaysia), Oleon NV (Belgium), Chevron Corporation (US) and others in the data center immersion cooling fluids market.

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