

Global Immersion Fluorinated Cooling Agents Market Growth 2026-2032

<https://marketpublishers.com/r/G39DB115E82AEN.html>

Date: July 2026

Pages: 112

Price: US\$ 3,660.00 (Single User License)

ID: G39DB115E82AEN

Abstracts

The global Immersion Fluorinated Cooling Agents market size is predicted to grow from US\$ 1764 million in 2025 to US\$ 5242 million in 2032; it is expected to grow at a CAGR of 15.9% from 2026 to 2032.

In 2025, global Immersion Fluorinated Cooling Agents production reached approximately 4,5000 tons with average price of 40,000 USD per ton.

Immersion Fluorinated Cooling Agents are a class of inert fluorinated liquid heat transfer media specifically designed for immersion liquid cooling systems in data centers, with core chemical components including hydrofluoroethers (HFE), hydrofluoroolefins (HFO), perfluoropolyethers (PFPE) or fluoroketones. They feature high electrical insulation, non-flammability, excellent thermal stability and chemical inertness, enabling direct contact with live electronic components without causing short circuits or corrosion. Suitable for single-phase and two-phase immersion cooling, they efficiently dissipate heat from high-density computing devices such as AI servers and HPC clusters, meeting low PUE and high reliability requirements.

The upstream sector consists of basic fluorochemical raw materials, including fluorite, hydrofluoric acid, anhydrous hydrogen fluoride and fluoromonomers, relying on fluorine mineral resources and basic chemical production capacity, with core suppliers including leading domestic and international fluorochemical enterprises. The midstream sector involves synthesis and purification of fluorinated cooling agents, producing HFE, HFO and other products through fine chemical processes such as fluorination, etherification and olefination, with rectification and purification to meet electronic-grade purity standards. Representative enterprises include global fluorochemical giants and domestic specialized manufacturers. The downstream application is dominated by data

centers, covering AI computing clusters, supercomputers, high-end server manufacturers and liquid cooling system integrators, extending to semiconductor temperature control and precision electronic testing, with demand growing alongside the expansion of high-density computing infrastructure.

The global upgrade of data center computing power and rising penetration of liquid cooling drive the continuous expansion of the Immersion Fluorinated Cooling Agents market. The demand for high-density heat dissipation in AI servers serves as the core growth driver, as traditional air cooling and cold-plate liquid cooling cannot meet the heat flux requirements of high-end chips, making immersion liquid cooling the mainstream solution and boosting steady demand for fluorinated cooling agents. Stricter environmental policies promote the transition to low-GWP products, with high-GWP traditional products gradually restricted and low-GWP eco-friendly products such as HFO becoming the mainstream direction. Combined with capacity adjustments of international enterprises and accelerated domestic substitution, the market landscape is restructured, with domestic enterprises rising rapidly leveraging cost and supply chain advantages. In the long term, under carbon neutrality goals, data centers have an urgent need for energy conservation and carbon reduction. Immersion liquid cooling can significantly reduce PUE, and as the core medium, fluorinated cooling agents have broad market potential. Meanwhile, technological iteration and cost optimization will further promote their large-scale application in more scenarios, making them key materials for thermal management in computing infrastructure.

LP Information, Inc. (LPI) ' newest research report, the "Immersion Fluorinated Cooling Agents Industry Forecast" looks at past sales and reviews total world Immersion Fluorinated Cooling Agents sales in 2025, providing a comprehensive analysis by region and market sector of projected Immersion Fluorinated Cooling Agents sales for 2026 through 2032. With Immersion Fluorinated Cooling Agents sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world Immersion Fluorinated Cooling Agents industry.

This Insight Report provides a comprehensive analysis of the global Immersion Fluorinated Cooling Agents landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyzes the strategies of leading global companies with a focus on Immersion Fluorinated Cooling Agents portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Immersion Fluorinated Cooling Agents market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Immersion Fluorinated Cooling Agents and breaks down the forecast by Type, by Application, geography, and market size to highlight emerging pockets of opportunity. With a transparent methodology based on hundreds of bottom-up qualitative and quantitative market inputs, this study forecast offers a highly nuanced view of the current state and future trajectory in the global Immersion Fluorinated Cooling Agents.

This report presents a comprehensive overview, market shares, and growth opportunities of Immersion Fluorinated Cooling Agents market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

Hydrofluoroether (HFE)

Perfluoropolyether (PFPE)

Hydrofluoroolefin (HFO)

Segmentation by Cooling Method:

Single-phase Immersion Fluid

Two-phase Phase Change Fluid

Spray & Indirect Cooling Fluid

Segmentation by Global Warming Potential:

High GWP Traditional Fluorinated Fluid

Medium GWP Modified Fluorinated Fluid

Low GWP Eco-friendly Fluorinated Fluid

Segmentation by Application:

Enterprise Private Data Center

Carrier Colocation Data Center

Cloud & Supercomputing Data Center

This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

APAC

China

Japan

Korea

Southeast Asia

India

Australia

Europe

Germany

France

UK

Italy

Russia

Middle East & Africa

Egypt

South Africa

Israel

Turkey

GCC Countries

The below companies that are profiled have been selected based on inputs gathered from primary experts and analysing the company's coverage, product portfolio, its market penetration.

Chemours (United States)

AGC(Japan?)

Honeywell (United States)

Syensqo (Belgium)

Daikin Chemical (Japan)

Halocarbon (United States)

Enviro Tech International (United States)

Arkema (France)

Zhejiang Juhua Co., Ltd.?China?

Shenzhen Capchem Technology Co., Ltd.?China?

Dongyue Group Limited?China?

Zhejiang Yonghe Refrigerant Co., Ltd?China?

Key Questions Addressed in this Report

What is the 10-year outlook for the global Immersion Fluorinated Cooling Agents market?

What factors are driving Immersion Fluorinated Cooling Agents market growth, globally and by region?

Which technologies are poised for the fastest growth by market and region?

How do Immersion Fluorinated Cooling Agents market opportunities vary by end market size?

How does Immersion Fluorinated Cooling Agents break out by Type, by Application?

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