

Global Immersion Fluorinated Cooling Agents Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Immersion Fluorinated Cooling Agents market size is expected to reach \$ 5253 million by 2032, rising at a market growth of 14.9% CAGR during the forecast period (2026-2032).

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.

This report studies the global Immersion Fluorinated Cooling Agents production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Immersion Fluorinated Cooling Agents 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 Immersion Fluorinated Cooling Agents that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Immersion Fluorinated Cooling Agents total production and demand, 2021-2032, (Tons)

Global Immersion Fluorinated Cooling Agents total production value, 2021-2032, (USD Million)

Global Immersion Fluorinated Cooling Agents production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Tons), (based on production

site)

Global Immersion Fluorinated Cooling Agents consumption by region & country, CAGR, 2021-2032 & (Tons)

U.S. VS China: Immersion Fluorinated Cooling Agents domestic production, consumption, key domestic manufacturers and share

Global Immersion Fluorinated Cooling Agents production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Tons)

Global Immersion Fluorinated Cooling Agents production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Tons)

Global Immersion Fluorinated Cooling Agents production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Tons)

This report profiles key players in the global Immersion Fluorinated Cooling Agents 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 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?, 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 Immersion Fluorinated Cooling Agents 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 Immersion Fluorinated Cooling Agents Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Immersion Fluorinated Cooling Agents Market, Segmentation by Type:

Hydrofluoroether (HFE)

Perfluoropolyether (PFPE)

Hydrofluoroolefin (HFO)

Global Immersion Fluorinated Cooling Agents Market, Segmentation by Cooling Method:

Single-phase Immersion Fluid

Two-phase Phase Change Fluid

Spray & Indirect Cooling Fluid

Global Immersion Fluorinated Cooling Agents Market, Segmentation by Global Warming Potential:

High GWP Traditional Fluorinated Fluid

Medium GWP Modified Fluorinated Fluid

Low GWP Eco-friendly Fluorinated Fluid

Global Immersion Fluorinated Cooling Agents Market, Segmentation by Application:

Enterprise Private Data Center

Carrier Colocation Data Center

Cloud & Supercomputing Data Center

Companies Profiled:

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 Answered:

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

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