

Global AI Liquid Coolant Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

<https://marketpublishers.com/r/GE56BCE4C67EEN.html>

Date: August 2026

Pages: 122

Price: US\$ 3,480.00 (Single User License)

ID: GE56BCE4C67EEN

Abstracts

According to our (Global Info Research) latest study, the global AI Liquid Coolant market size was valued at US\$ 741 million in 2025 and is forecast to a readjusted size of US\$ 1534 million by 2032 with a CAGR of 11.0% during review period.

In 2025, global sales volume of AI liquid cooling fluids reaches 12,000 tons, with an average selling price of approximately \$60,000 per ton.

AI liquid cooling fluids are liquid media designed specifically for electronic equipment, particularly in AI computing scenarios. By making direct or indirect contact with heat-generating components (such as CPUs, GPUs, and AI chips), they utilize the liquid's high specific heat capacity and latent heat of phase change to efficiently dissipate heat, thereby ensuring stable equipment operation and reducing energy consumption.

As a core material for computing infrastructure, AI liquid cooling fluid is experiencing explosive growth. With the power density of single server racks climbing above 150 kW, high-performance cooling fluid is not only critical for the stable operation of GPUs but also directly determines a data center's ability to effectively lower its Power Usage Effectiveness (PUE).

Key market drivers include the following:

Growth in the AI liquid cooling fluid market is primarily driven by the trend toward high heat density in AI data centers. As large model training, inference clusters, and high-performance GPU servers continue to drive up power consumption per rack, traditional

air-cooling methods face challenges regarding heat dissipation efficiency, noise control, and space utilization. Liquid cooling systems dissipate heat more efficiently through a liquid medium; as the core heat-transfer medium, the coolant directly impacts heat exchange efficiency, material compatibility, and long-term system stability, driving increased demand alongside the expansion of AI infrastructure.

Furthermore, the need for energy efficiency and stable operation in data centers is propelling upgrades in coolant technology. AI servers demand continuous operation; failure of the thermal management system can lead to performance throttling, system downtime, or hardware damage. Coolants for AI liquid cooling must possess excellent thermal conductivity, low corrosivity, low electrical conductivity, oxidation resistance, and long-term chemical stability to ensure compatibility with various systems, such as cold-plate and immersion cooling. As liquid cooling solutions transition from pilot projects to large-scale deployment, the importance of coolant quality and operational safety has become increasingly critical.

In addition, the maturation of the liquid cooling supply chain and the standardization of solutions by server manufacturers are fostering market growth. The construction of future AI data centers requires not only liquid cooling hardware but also the seamless integration of coolants, piping, connectors, monitoring systems, and maintenance services. Coolant suppliers capable of providing material compatibility testing, service-life assessment, contamination control, and operational fluid-replenishment solutions will be better positioned to secure roles in key projects. Market competition will center on reliability validation, system compatibility, environmental safety, and long-term service capabilities.

This report is a detailed and comprehensive analysis for global AI Liquid Coolant market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

Key Features:

Global AI Liquid Coolant market size and forecasts, in consumption value (\$ Million), sales quantity (Tons), and average selling prices (US\$/Ton), 2021-2032

Global AI Liquid Coolant market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (Tons), and average selling prices (US\$/Ton), 2021-2032

Global AI Liquid Coolant market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (Tons), and average selling prices (US\$/Ton), 2021-2032

Global AI Liquid Coolant market shares of main players, shipments in revenue (\$ Million), sales quantity (Tons), and ASP (US\$/Ton), 2021-2026

The Primary Objectives in This Report Are:

- To determine the size of the total market opportunity of global and key countries

- To assess the growth potential for AI Liquid Coolant

- To forecast future growth in each product and end-use market

- To assess competitive factors affecting the marketplace

This report profiles key players in the global AI Liquid Coolant market based on the following parameters - company overview, sales quantity, revenue, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include 3M, Chemours, Dow, Shell, M&I Materials, Engineered Fluids, Huikai Dingrui, Super Lube, Juhua Co., Ltd., Shenzhen Capchem Technology, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Market Segmentation

AI Liquid Coolant market is split by Type and by Application. For the period 2021-2032, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Type

Oil Coolant

Fluorocarbon Coolant

Other

Market segment by Composition Phase

Single-Phase Coolant

Two-Phase Coolant

Market segment by Insulation Architecture

Low-insulation Coolant (Cold Plate Liquid Cooling)

High-insulation Coolant (Immersion Liquid Cooling)

Market segment by Application

Data Center

High-Performance Computing

Edge Computing

Energy Storage and Electric Vehicles

Major players covered

3M

Chemours

Dow

Shell

M&I Materials

Engineered Fluids

Huikai Dingrui

Super Lube

Juhua Co., Ltd.

Shenzhen Capchem Technology

Yongtai Technology

Daikin

AGC

Market segment by region, regional analysis covers

North America (United States, Canada, and Mexico)

Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)

Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)

South America (Brazil, Argentina, Colombia, and Rest of South America)

Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

The content of the study subjects, includes a total of 15 chapters:

Chapter 1, to describe AI Liquid Coolant product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of AI Liquid Coolant, with price, sales quantity, revenue, and global market share of AI Liquid Coolant from 2021 to 2026.

Chapter 3, the AI Liquid Coolant competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the AI Liquid Coolant breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2021 to 2032.

Chapter 5 and 6, to segment the sales by Type and by Application, with sales market share and growth rate by Type, by Application, from 2021 to 2032.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value, and market share for key countries in the world, from 2021 to 2026. and AI Liquid Coolant market forecast, by regions, by Type, and by Application, with sales and revenue, from 2027 to 2032.

Chapter 12, market dynamics, drivers, restraints, trends, and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of AI Liquid Coolant.

Chapter 14 and 15, to describe AI Liquid Coolant sales channel, distributors, customers, research findings and conclusion.

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