

Global Phase-change Immersion Cooling Liquid Market 2025 by Manufacturers, Regions, Type and Application, Forecast to 2031

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Abstracts

According to our (Global Info Research) latest study, the global Phase-change Immersion Cooling Liquid market size was valued at US\$ million in 2024 and is forecast to a readjusted size of USD million by 2031 with a CAGR of %during review period.

In this report, we will assess the current U.S. tariff framework alongside international policy adaptations, analyzing their effects on competitive market structures, regional economic dynamics, and supply chain resilience.

The server will be submerged to the low-viscosity, non-conductive coolant, through the direct contact between the coolant and the hot parts as well as the liquid cycle to take away the heat of the computing equipment; at the same time, due to the process of low-temperature evaporation of the liquid will be hot from the liquid pool transferred to the space outside the pool, through the condensing tube and other heat exchange devices, so that the vapour is again cooled and condensed to flow back to the water tank, and so on, and so forth, and constantly cycling. According to the survey, the current energy consumption in the GPU, CPU is getting bigger and bigger. In terms of GPU, the thermal power consumption (TDP) will reach 1500W in 2026; for CPU, the TDP will reach 800W in 2026, therefore, the era of kilowatt service cooling has come, and the submerged liquid cooling technology has become the optimal solution. The raw material of dual-phase immersion liquid is based on fluoride (perfluoropolyether and hydrofluoroether), and its production is complicated and very costly. At present, the price of mainstream 3M phase change coolant in the market is as high as 500,000 yuan/tonne. Downstream users are mainly concentrated in some industries with very high requirements for heat dissipation, such as data centres and energy storage systems. As more companies start related research, it is expected to reduce the overall

cost in the future through technological advances and large-scale production, while expanding its application areas.

This report is a detailed and comprehensive analysis for global Phase-change Immersion Cooling Liquid 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 Phase-change Immersion Cooling Liquid market size and forecasts, in consumption value (\$ Million), sales quantity (kg), and average selling prices (US\$/kg), 2020-2031

Global Phase-change Immersion Cooling Liquid market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (kg), and average selling prices (US\$/kg), 2020-2031

Global Phase-change Immersion Cooling Liquid market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (kg), and average selling prices (US\$/kg), 2020-2031

Global Phase-change Immersion Cooling Liquid market shares of main players, shipments in revenue (\$ Million), sales quantity (kg), and ASP (US\$/kg), 2020-2025

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 Phase-change Immersion Cooling Liquid
- 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 Phase-change Immersion Cooling Liquid 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 Chemours, 3M, Dow, TMC

Industries, Inventec Performance Chemicals, etc.

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

Market Segmentation

Phase-change Immersion Cooling Liquid market is split by Type and by Application. For the period 2020-2031, 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

Fluorinated

Hydrofluoroolefin (HFO)

Others

Market segment by Application

Data Center

Energy Storage

Others

Major players covered

Chemours

3M

Dow

TMC Industries

Inventec Performance Chemicals

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 Phase-change Immersion Cooling Liquid product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Phase-change Immersion Cooling Liquid, with price, sales quantity, revenue, and global market share of Phase-change Immersion Cooling Liquid from 2020 to 2025.

Chapter 3, the Phase-change Immersion Cooling Liquid competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Phase-change Immersion Cooling Liquid breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2020 to 2031.

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 2020 to 2031.

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 2020 to 2025. and Phase-change Immersion Cooling Liquid market forecast, by regions, by Type, and by Application, with sales and revenue, from 2026 to 2031.

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 Phase-change Immersion Cooling Liquid.

Chapter 14 and 15, to describe Phase-change Immersion Cooling Liquid sales channel, distributors, customers, research findings and conclusion.

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