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Global Mineral Oil-Based Immersion Cooling Fluids Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

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Abstracts

According to our (Global Info Research) latest study, the global Mineral Oil-Based Immersion Cooling Fluids market size was valued at US$ 77.43 million in 2025 and is forecast to a readjusted size of US$ 97 million by 2032 with a CAGR of 3.3% during review period.

Mineral oil-based immersion cooling fluids are a type of dielectric cooling medium composed primarily of mineral oils derived from petroleum refining (mainly mixtures of hydrocarbons such as alkanes, cycloalkanes, and some aromatic hydrocarbons). Used in immersion liquid cooling systems, they facilitate efficient heat conduction and dissipation by fully or partially submerging servers, power electronics, or high-power chips in the oil. The upstream segment of the industry chain consists of base oil resources supplied by the petroleum refining sector?including mineral base oils, white oils, and specialized insulating mineral oils obtained through processes like distillation and hydro-refining?along with the raw material supply provided by refineries and base oil vendors. The midstream segment involves the blending and modification of these fluids; lubricant and specialty chemical companies subject the base oils to processes such as deep refining, dearomatization, antioxidant treatment, and viscosity optimization to produce high-purity, low-volatility mineral oil products suitable for data center liquid cooling systems. The downstream segment comprises applications in data centers, new energy vehicles, and high-power charging stations.

In 2025, the global sales volume of mineral oil-based immersion cooling fluids is projected to reach 35,000 tons, with a production capacity of approximately 52,000 tons, an average selling price of $2,150 per ton, and an average gross profit margin of 30%?40%.

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In terms of the policy landscape and industry trends, global policies regarding green data centers and low-carbon computing are increasingly favoring cooling media that offer high energy efficiency and are biodegradable or have low environmental impact; this places environmental regulatory pressure on the mineral oil-based approach, while industry standards for liquid cooling are gradually shifting toward ester-based and novel media. However, due to their low cost and stable supply, mineral oils retain a certain market share in some developing markets and cost-sensitive scenarios.

This report is a detailed and comprehensive analysis for global Mineral Oil-Based Immersion Cooling Fluids 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 Mineral Oil-Based Immersion Cooling Fluids market size and forecasts, in consumption value ($ Million), sales quantity (Tons), and average selling prices (US$/Ton), 2021-2032

Global Mineral Oil-Based Immersion Cooling Fluids market size and forecasts by region and country, in consumption value ($ Million), sales quantity (Tons), and average selling prices (US$/Ton), 2021-2032

Global Mineral Oil-Based Immersion Cooling Fluids 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 Mineral Oil-Based Immersion Cooling Fluids 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 Mineral Oil-Based Immersion Cooling Fluids

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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 Mineral Oil-Based Immersion Cooling Fluids 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 Shell, ExxonMobil, TotalEnergies, Chevron, Castrol, Lubrizol, FUCHS, Dick Chemical, Nynas, Ergon, etc.

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

Market Segmentation

Mineral Oil-Based Immersion Cooling Fluids 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

Group I base Oil Cooling Fluids

Group II base Oil Cooling Fluids

Group III base Oil Cooling Fluids

Market segment by Kinematic Viscosity

?10mm?/s

10-20mm?/s

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?20mm?/s

Market segment by Phase Change State

Single-Phase

Dual-Phase

Market segment by Application

Data Centers

New Energy Vehicles

High-Power Charging Piles

Others

Major players covered

Shell

ExxonMobil

TotalEnergies

Chevron

Castrol

Lubrizol

FUCHS

Dick Chemical

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Nynas

Ergon

Karamay Petrochemical Company

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 Mineral Oil-Based Immersion Cooling Fluids product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Mineral Oil-Based Immersion Cooling Fluids, with price, sales quantity, revenue, and global market share of Mineral Oil-Based Immersion Cooling Fluids from 2021 to 2026.

Chapter 3, the Mineral Oil-Based Immersion Cooling Fluids competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Mineral Oil-Based Immersion Cooling Fluids 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

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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 Mineral Oil-Based Immersion Cooling Fluids 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 Mineral Oil-Based Immersion Cooling Fluids.

Chapter 14 and 15, to describe Mineral Oil-Based Immersion Cooling Fluids sales channel, distributors, customers, research findings and conclusion.

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