

Global Data Center Oil Coolant 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 Data Center Oil Coolant market size was valued at US\$ 129 million in 2025 and is forecast to a readjusted size of US\$ 276 million by 2032 with a CAGR of 9.6% during review period.

Data Center Oil Coolant refers to dielectric oil-based cooling fluids used in data center immersion cooling systems to directly absorb and transfer heat from servers, AI accelerators, GPUs, power modules, and other IT equipment. Compared with traditional air cooling, oil coolant has higher heat transfer efficiency, stable electrical insulation performance, and can support high-density computing environments such as AI data centers, cloud computing centers, and crypto mining facilities. It is commonly used in single-phase immersion cooling, where electronic components are submerged in mineral oil, synthetic oil, PAO, ester-based fluids, or other engineered dielectric liquids to reduce energy consumption and improve thermal management reliability. In 2025, global Data Center Oil Coolant production reached approximately 58.4 k tons, with an average global market price of around 2150 USD/ton. The production capacity for Data Center Oil Coolant in 2025 was approximately 60 k tons. The typical gross profit margin for Data Center Oil Coolant between 20% and 40%.

The Data Center Oil Coolant market is growing with the rapid expansion of AI computing, high-performance computing, cloud services, and high-density server deployment. As rack power density continues to rise, traditional air cooling faces limitations in energy efficiency and thermal performance, driving demand for oil-based dielectric coolants used in immersion cooling systems. Market growth is supported by the need to reduce PUE, lower cooling energy consumption, extend equipment life, and improve thermal stability in large-scale data centers. However, challenges such as

coolant compatibility, long-term material stability, maintenance practices, fluid cost, and lack of unified industry standards may limit wider adoption in some enterprise and colocation data centers.

This report is a detailed and comprehensive analysis for global Data Center Oil 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 Data Center Oil Coolant market size and forecasts, in consumption value (\$ Million), sales quantity (Kilotons), and average selling prices (US\$/Ton), 2021-2032

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

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

Global Data Center Oil Coolant market shares of main players, shipments in revenue (\$ Million), sales quantity (Kilotons), 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 Data Center Oil 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 Data Center Oil 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 Shell, Chevron, ExxonMobil, Dow Chemical, Wacker Chemie, CNPC, Tongyi Carbon Neutral Technology, Shenyang Original Chemical, Satellite Chemical, Yangzhou Chenhua New Material, etc.

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

Market Segmentation

Data Center Oil 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

Mineral Oil Based

Synthetic Hydrocarbon

Silicone Based

Market segment by Functional Type

Immersion Fluids

Heat Transfer Fluids

Others

Market segment by Application

AI Data Center

High-Performance Computing (HPC)

Cloud Computing and Enterprise Data Center

Others

Major players covered

Shell

Chevron

ExxonMobil

Dow Chemical

Wacker Chemie

CNPC

Tongyi Carbon Neutral Technology

Shenyang Original Chemical

Satellite Chemical

Yangzhou Chenhua New Material

Shanghai Hongda New Material

Xingfa Chemicals Group

Ningbo Runhe High-Tech Materials

Zhejiang Xinan Chemical Industrial Group

Zhuhai Changxian Chemical Technology

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 Data Center Oil Coolant product scope, market overview, market estimation caveats and base year.

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

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

Chapter 4, the Data Center Oil 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 Data Center Oil 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 Data Center Oil Coolant.

Chapter 14 and 15, to describe Data Center Oil Coolant sales channel, distributors, customers, research findings and conclusion.

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