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Global Data Center Thermal Management Materials 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 Thermal Management Materials market size was valued at US$ 9055 million in 2025 and is forecast to a readjusted size of US$ 23600 million by 2032 with a CAGR of 14.6% during review period.

Data center thermal management materials are material systems used to dissipate heat from servers, switches, power modules and high-density computing equipment, covering immersion cooling fluids, thermal interface materials, cold plate materials, phase change materials and thermally conductive structures. Their core function is to improve heat conduction, transfer and release while maintaining electrical safety and system reliability. In 2025, global Data Center Thermal Management Materials production reached approximately 800 K MT.

AI servers and high-power GPU racks have raised power density per floor area, narrowing the efficiency and noise-control margin of traditional air cooling. Liquid cooling, immersion cooling and high-performance thermal interface materials are becoming priorities in new data centers and retrofit projects. Material suppliers must meet requirements for thermal conductivity, compatibility, low volatility, electrical insulation and long-term stability.

Growth is also supported by energy regulation, PUE targets and large-scale computing clusters. Customers increasingly focus on the impact of materials on equipment life, maintenance and total system cost, which makes qualification cycles longer. Joint validation between major material suppliers and equipment makers will accelerate, and competition will shift from single conductivity metrics to integrated thermal management

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capability.

From a project execution perspective, material procurement increasingly depends on joint validation by server OEMs, liquid-cooling solution providers and cloud operators. High-performance thermal interface materials, coolants and cold-plate materials must pass compatibility, leakage-risk, maintainability and long-term aging tests, giving an advantage to suppliers that can provide system-level data and engineering support.'

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

Global Data Center Thermal Management Materials 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 Thermal Management Materials 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 Thermal Management Materials 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 Thermal Management Materials

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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 Data Center Thermal Management Materials 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 ExxonMobil, Shell, Castrol, Chemours, Dow, Henkel, Parker Chomerics, Shin-Etsu, Boyd, Molex, etc.

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

Market Segmentation

Data Center Thermal Management Materials 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

Immersion Cooling Fluids

Thermal Interface Materials

Cold Plate Materials

Phase Change Materials

Heat Pipe And Vapor Chamber Materials

Other

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Market segment by Feature

- Single-Phase Liquid Cooling Materials
- Two-Phase Liquid Cooling Materials
- Air-Cooling Enhancement Materials
- Hybrid Cooling Materials

Market segment by Channel

- Direct Sales
- Distribution

Market segment by Application

- AI Data Centers
- High Performance Computing
- Cloud Data Centers
- Edge Data Centers
- Telecom Equipment Rooms
- Other

Major players covered

- ExxonMobil
- Shell

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Castrol

Chemours

Dow

Henkel

Parker Chomerics

Shin-Etsu

Boyd

Molex

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 Thermal Management Materials product scope, market overview, market estimation caveats and base year.

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

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

Chapter 4, the Data Center Thermal Management Materials 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 Thermal Management Materials 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 Thermal Management Materials.

Chapter 14 and 15, to describe Data Center Thermal Management Materials sales channel, distributors, customers, research findings and conclusion.

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