

Global Data Center Thermal Management Materials Market Growth 2026-2032

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Abstracts

The global Data Center Thermal Management Materials market size is predicted to grow from US\$ 8609 million in 2025 to US\$ 23530 million in 2032; it is expected to grow at a CAGR of 15.6% from 2026 to 2032.

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 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.'

LP Information, Inc. (LPI) ' newest research report, the 'Data Center Thermal Management Materials Industry Forecast' looks at past sales and reviews total world Data Center Thermal Management Materials sales in 2025, providing a comprehensive analysis by region and market sector of projected Data Center Thermal Management Materials sales for 2026 through 2032. With Data Center Thermal Management Materials sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world Data Center Thermal Management Materials industry.

This Insight Report provides a comprehensive analysis of the global Data Center Thermal Management Materials landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyzes the strategies of leading global companies with a focus on Data Center Thermal Management Materials portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Data Center Thermal Management Materials market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Data Center Thermal Management Materials and breaks down the forecast by Type, by Application, geography, and market size to highlight emerging pockets of opportunity. With a transparent methodology based on hundreds of bottom-up qualitative and quantitative market inputs, this study forecast offers a highly nuanced view of the current state and future trajectory in the global Data Center Thermal Management Materials.

This report presents a comprehensive overview, market shares, and growth opportunities of Data Center Thermal Management Materials market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

Immersion Cooling Fluids

Thermal Interface Materials

Cold Plate Materials

Phase Change Materials

Heat Pipe And Vapor Chamber Materials

Other

Segmentation by Feature:

Single-Phase Liquid Cooling Materials

Two-Phase Liquid Cooling Materials

Air-Cooling Enhancement Materials

Hybrid Cooling Materials

Segmentation by Channel:

Direct Sales

Distribution

Segmentation by Application:

AI Data Centers

High Performance Computing

Cloud Data Centers

Edge Data Centers

Telecom Equipment Rooms

Other

This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

APAC

China

Japan

Korea

Southeast Asia

India

Australia

Europe

Germany

France

UK

Italy

Russia

Middle East & Africa

Egypt

South Africa

Israel

Turkey

GCC Countries

The below companies that are profiled have been selected based on inputs gathered from primary experts and analysing the company's coverage, product portfolio, its market penetration.

ExxonMobil

Shell

Castrol

Chemours

Dow

Henkel

Parker Chomerics

Shin-Etsu

Boyd

Molex

Key Questions Addressed in this Report

What is the 10-year outlook for the global Data Center Thermal Management Materials market?

What factors are driving Data Center Thermal Management Materials market growth, globally and by region?

Which technologies are poised for the fastest growth by market and region?

How do Data Center Thermal Management Materials market opportunities vary by end market size?

How does Data Center Thermal Management Materials break out by Type, by Application?

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