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Global Data Center Thermal Management Materials Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Data Center Thermal Management Materials market size is expected to reach $ 23600 million by 2032, rising at a market growth of 14.6% CAGR during the forecast period (2026-2032).

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.

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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 studies the global Data Center Thermal Management Materials production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Data Center Thermal Management Materials and provides market size (US$ million) and Year-over-Year (YoY) Growth, considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of Data Center Thermal Management Materials that contribute to its increasing demand across many markets.

Highlights and key features of the study
Global Data Center Thermal Management Materials total production and demand, 2021-2032, (Kilotons)
Global Data Center Thermal Management Materials total production value, 2021-2032, (USD Million)
Global Data Center Thermal Management Materials production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Kilotons), (based on production site)
Global Data Center Thermal Management Materials consumption by region & country, CAGR, 2021-2032 & (Kilotons)
U.S. VS China: Data Center Thermal Management Materials domestic production, consumption, key domestic manufacturers and share
Global Data Center Thermal Management Materials production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Kilotons)
Global Data Center Thermal Management Materials production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Kilotons)
Global Data Center Thermal Management Materials production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Kilotons)

This report profiles key players in the global Data Center Thermal Management Materials market based on the following parameters - company overview, production, value, price, gross margin, product portfolio, geographical presence, and key

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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.

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World Data Center Thermal Management Materials market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US$ Millions), volume (production, consumption) & (Kilotons) and average price (US$/Ton) by manufacturer, by Type, and by Application. Data is given for the years 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

Global Data Center Thermal Management Materials Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Data Center Thermal Management Materials Market, Segmentation by Type:

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Immersion Cooling Fluids

Thermal Interface Materials

Cold Plate Materials

Phase Change Materials

Heat Pipe And Vapor Chamber Materials

Other

Global Data Center Thermal Management Materials Market, Segmentation by Feature:

Single-Phase Liquid Cooling Materials

Two-Phase Liquid Cooling Materials

Air-Cooling Enhancement Materials

Hybrid Cooling Materials

Global Data Center Thermal Management Materials Market, Segmentation by Channel:

Direct Sales

Distribution

Global Data Center Thermal Management Materials Market, Segmentation by Application:

AI Data Centers

High Performance Computing

Cloud Data Centers

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Edge Data Centers

Telecom Equipment Rooms

Other

Companies Profiled:

ExxonMobil

Shell

Castrol

Chemours

Dow

Henkel

Parker Chomerics

Shin-Etsu

Boyd

Molex

Key Questions Answered:
1. How big is the global Data Center Thermal Management Materials market?
2. What is the demand of the global Data Center Thermal Management Materials market?
3. What is the year over year growth of the global Data Center Thermal Management Materials market?
4. What is the production and production value of the global Data Center Thermal Management Materials market?

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5. Who are the key producers in the global Data Center Thermal Management Materials market?
6. What are the growth factors driving the market demand?

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