

Asia-Pacific Data Center Dielectric Fluid Market: Focus on Application, Product, and Country - Analysis and Forecast, 2023-2028

<https://marketpublishers.com/r/AB119D5AC1B3EN.html>

Date: July 2024

Pages: 0

Price: US\$ 2,950.00 (Single User License)

ID: AB119D5AC1B3EN

Abstracts

Hard copy option is available on any of the options above at an additional charge of \$500. Please email us at order@marketpublishers.com with your request.

This report will be delivered in 1-5 working days.

Introduction to Asia-Pacific Data Center Dielectric Fluid Market

The Asia-Pacific data center dielectric fluid market (excluding China), valued at \$15.03 million in 2023, is expected to reach \$75.16 million by 2028, exhibiting a robust CAGR of 37.98% during the forecast period 2023-2028. The growth of the data center dielectric fluid market is anticipated to be propelled by growing concerns over water scarcity and the rising construction of edge, colocation, and hyperscale data center facilities. Moreover, the increasing demand for liquid cooling systems is further driving the need for dielectric fluids in this market.

Market Introduction

The Asia-Pacific (APAC) data center dielectric fluid market is experiencing significant growth due to the region's rapid digital transformation and increasing adoption of advanced technologies. Factors such as expanding internet usage, the proliferation of cloud services, and the rise of big data analytics are driving the demand for efficient and sustainable cooling solutions in data centers. Water scarcity concerns and the need for energy-efficient cooling systems further boost the market, with liquid cooling systems becoming increasingly popular. Countries like China, India, and Japan are leading the charge with substantial investments in edge, colocation, and hyperscale data centers.

This surge in data center construction is expected to propel the demand for dielectric fluids, ensuring reliable and eco-friendly operations.

Market Segmentation:

Segmentation 1: by Industry

IT and Telecommunications

Banking, Financial Services, and Insurance (BFSI)

Government and Public Sector

Healthcare

Manufacturing

Retail

Others

Segmentation 2: by Data Center Type

Hyperscale

Colocation

Enterprise

Edge

Segmentation 3: by Country

Japan

India

Australia

Singapore

Malaysia

Rest-of-Asia-Pacific

How Can This Report Add Value to an Organization?

Product/Innovation Strategy: The product segment helps the reader understand the different application and product segments of data center dielectric fluids and their potential. Moreover, the study gives the reader a detailed understanding of the different regulations, consortiums and associations, and government programs impacting the dielectric fluid manufacturers for various purposes, including data centers. Compared to conventional refrigerants, dielectric fluids enable more energy efficiency, low GWP, low ozone depletion potential (ODP), and low greenhouse gas (GHG) emissions, allowing data center operators to save money by maximizing the use of their inputs.

Growth/Marketing Strategy: The data center dielectric fluid market has seen major development by key players operating in the market, such as business expansion, partnership, collaboration, and joint venture.

Contents

Scope of the Study
Executive Summary

1 MARKETS

1.1 Industry Outlook

- 1.1.1 Selection Criteria for Dielectric Fluid for Data Center Immersion Cooling
- 1.1.2 Comparative Analysis for Different Liquid Cooling Technologies
- 1.1.3 Comparative Analysis for Dielectric Fluids

1.2 Business Dynamics

1.2.1 Business Drivers

- 1.2.1.1 Expanding Data Center Industry
- 1.2.1.2 Rising Dielectric Fluid Usage Amid the Emergence of Liquid Cooling Trends
 - 1.2.1.2.1 Comparison between Air and Liquid Cooling Technology
- 1.2.1.3 Escalating Water Usage Driving Increased Demand for Dielectric Fluid
 - 1.2.1.3.1 Shift: Country Trends in Data Center Cooling Transitions

1.2.2 Business Challenges

- 1.2.2.1 Increased Costs Arising from System Failures and Fluid Leaks
- 1.2.2.2 Negative Environmental Concerns about Fluorocarbons
 - 1.2.2.2.1 Green Innovation in Dielectric Fluids: Plant-Based Cooling Solutions for

Data Centers and Cryptomining Facilities

1.2.3 Business Opportunities

- 1.2.3.1 Increasing Adoption of Blockchain Technologies and Growing Demand for Crypto Mining
 - 1.2.3.1.1 Collaborative Innovations in Immersion Cooling for Cryptocurrency Miners
 - 1.2.3.2 Emerging Growth Potential for Edge Computing and Increasing Penetration Rate of the Internet of Things (IoT) and Cloud Services

1.3 Ecosystem and Ongoing Programs

- 1.3.1 Associations and Consortia
- 1.3.2 Government Programs and Initiatives Landscape
 - 1.3.2.1 Asia-Pacific
 - 1.3.2.2 China

1.4 Pricing Analysis

- 1.4.1 Determinants of Pricing
- 1.4.2 Factors Affecting Data Center Cooling Choices and Costs

2 REGIONS

2.1 Data Center Outlook

2.1.1 Growing Number of Data Center Stock

2.2 China

2.3 Asia-Pacific

2.3.1 Japan

2.3.2 India

2.3.3 Australia

2.3.4 Singapore

2.3.5 Malaysia

2.3.6 Rest-of-Asia-Pacific

3 MARKETS - COMPETITIVE BENCHMARKING & COMPANY PROFILES

3.1 Competitive Benchmarking

3.2 Company Profiles

4 RESEARCH METHODOLOGY

4.1 Data Sources

4.1.1 Primary Data Sources

4.1.2 Secondary Data Sources

4.1.3 Data Triangulation

4.2 Market Estimation and Forecast

4.2.1 Factors for Data Prediction and Modeling

List of Figures

Figure 1: Asia-Pacific Data Center Dielectric Fluid Market, \$Million, 2022-2028

Figure 2: Asia-Pacific Data Center Dielectric Fluid Market (by Industry), \$Million, 2022-2028

Figure 3: Asia-Pacific Data Center Dielectric Fluid Market (by Data Center Type), \$Million, 2022-2028

Figure 4: Asia-Pacific Data Center Dielectric Fluid Market (by Fluid Type), \$Million, 2022-2028

Figure 5: Data Center Dielectric Fluid Market (by Region), 2022

Figure 6: Growth in Data Center Capacity over the Past Five Years

Figure 7: Number of Cryptocurrencies Worldwide, 2018-2022

Figure 8: Driving Factors for the Surge in Edge Computing

Figure 9: Anticipated Pricing Spectrum for Data Center Dielectric Fluid

Figure 10: Number of Data Centers, January 2022

Figure 11: Competitive Benchmarking Matrix

Figure 12: Data Center Dielectric Fluid Market: Research Methodology

Figure 13: Data Triangulation

Figure 14: Top-Down and Bottom-Up Approach

Figure 15: Assumptions and Limitations

List of Tables

Table 1: Comprehensive Assessment of Different Types of Dielectric Fluids

Table 2: Comparison between Dielectric Fluids based on Physical Parameters

Table 3: Government Programs and Initiatives Landscape

Table 4: Government Programs and Initiatives Landscape

Table 5: Data Center Dielectric Fluid Market (by Region), \$Million, 2023-2028

I would like to order

Product name: Asia-Pacific Data Center Dielectric Fluid Market: Focus on Application, Product, and Country - Analysis and Forecast, 2023-2028

Product link: <https://marketpublishers.com/r/AB119D5AC1B3EN.html>

Price: US\$ 2,950.00 (Single User License / Electronic Delivery)

If you want to order Corporate License or Hard Copy, please, contact our Customer Service:

info@marketpublishers.com

Payment

To pay by Credit Card (Visa, MasterCard, American Express, PayPal), please, click button on product page <https://marketpublishers.com/r/AB119D5AC1B3EN.html>

To pay by Wire Transfer, please, fill in your contact details in the form below:

First name:
Last name:
Email:
Company:
Address:
City:
Zip code:
Country:
Tel:
Fax:
Your message:

****All fields are required**

Customer signature _____

Please, note that by ordering from marketpublishers.com you are agreeing to our Terms & Conditions at <https://marketpublishers.com/docs/terms.html>

To place an order via fax simply print this form, fill in the information below and fax the completed form to +44 20 7900 3970

