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The Global Market for Passive Cooling Materials and Technologies 2024-2034

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Abstracts

Passive cooling utilizes heat dissipation methods without external energy input, relying on conduction, convection and radiation processes. Major markets include building cooling, cold chain logistics, electronics cooling, textiles and personal comfort. Demand is driven by needs for energy efficiency, temperature controlled transport, and thermal management.

The Global Market for Passive Cooling Materials and Technologies 2024-2034 provides a comprehensive analysis of the global passive cooling materials and technologies landscape. It covers key principles like conduction, convection, and radiation that enable passive cooling as well as materials like phase change materials, graphene, carbon nanotubes, aerogels, hydrogels, and metamaterials.

Detailed ten-year market forecasts are segmented by end-use industry, material type, and region provide insights into revenue opportunities. Profiles of over 200 leading companies developing and supplying passive cooling solutions are included along with analyses of product portfolios, partnerships, and R&D priorities.

The report highlights high-potential applications in buildings, electronics, electric vehicles, apparel, cold chain, and energy storage. Comparisons of competing material technologies for thermal management are presented. Current commercial products are benchmarked and technical readiness of emerging solutions is assessed. Report contents include:

- Executive summary covering market overview, drivers, emerging materials, electrification impacts, and applications roadma

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Materials and technologies analysis of:

Thermal interface materials

Phase change materials

Carbon materials like graphene, nanotubes, nanodiamonds

Aerogels

Hydrogels

Metamaterials

Heat pipes

Radiative cooling

Cooling paints and coatings

Ten-year market forecasts segmented by:

End use industry

Material type

Region

Profiles of over 200 leading companies developing and supplying passive cooling solutions. Companies profiled include AOS Thermal Compounds, Aspen Aerogels, BioLife Solutions, Inc., Boyd Corproation, Cabot Corporation, Dow Corning, Enerdyne Solutions, Enersens, Fujipoly, Guangdong Alison Hi-Tech, Henkel, HyMet Thermal Interfaces SIA, i-TES, Momentive and Radi-Cool.

Analysis of passive cooling applications in buildings, electronics, electric vehicles, apparel, cold chain, and energy storage

Benchmarking of commercial products and assessment of technical readiness of emerging solutions

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Comparisons of competing material technologies for thermal management

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Contents

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12. LIST OF TABLES

12. LIST OF FIGURES

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