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Global Radiative Cooling Technology Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Radiative Cooling Technology market size is expected to reach $ 100 million by 2032, rising at a market growth of 21.6% CAGR during the forecast period (2026-2032).

Radiative cooling technology is an innovative passive cooling method that allows objects to release heat by emitting infrared radiation, which passes through the atmosphere and into outer space. This process can cool surfaces below ambient air temperatures without using electricity or active cooling systems. The technology typically involves materials or coatings that reflect sunlight while efficiently radiating heat in the infrared spectrum, making it particularly effective in hot and sunny climates. Radiative cooling has potential applications in building temperature regulation, improving energy efficiency, reducing reliance on air conditioning, and enhancing the performance of solar panels by keeping them cool. The average price of coating products is approximately US$6.29 per square meter, while the average price of film products is US$30 per square meter.

Passive Daytime Radiative Cooling (PDRC) is an emerging thermal management technology that enables surfaces to remain cooler than the ambient temperature under direct sunlight without consuming energy. This is achieved by engineering materials or coatings that reflect most of the incoming solar radiation while emitting thermal radiation through the atmospheric transparency window (8–13 μm) directly into outer space. The technology holds significant promise for applications in building envelopes, automotive components, textiles, and portable electronics, driven by the global push for energy efficiency, net-zero buildings, and sustainable cooling solutions. Advances in photonic materials, polymer composites, and scalable manufacturing processes (e.g., roll-to-roll production of PDRC films) are accelerating the transition from lab-scale prototypes to

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commercial products.

The PDRC market landscape is shaped by growing regulatory and societal pressures to reduce carbon emissions and mitigate the urban heat island effect. Adoption is supported by incentives for green buildings, stringent building energy codes, and rising demand for off-grid cooling solutions, particularly in hot and arid regions. However, challenges remain in achieving durability, cost competitiveness, and aesthetic flexibility (e.g., colored or patterned PDRC surfaces) compared to traditional cooling coatings and materials. Key players in this space include startups, material science innovators, and academic spin-offs collaborating with construction, automotive, and textile industries to integrate PDRC into practical, large-scale applications.

This report studies the global Radiative Cooling Technology production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Radiative Cooling Technology 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 Radiative Cooling Technology that contribute to its increasing demand across many markets.

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

This report profiles key players in the global Radiative Cooling Technology market based on the following parameters - company overview, production, value, price, gross

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margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include SPACE COOL, Azure Era, i2Cool, MG Energy, Radi-Cool, CSCEC, Pirta, Cryox, 3M, AkzoNobel, 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 Radiative Cooling Technology market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US$ Millions), volume (production, consumption) & (Sq m) and average price (US$/Sq m) 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 Radiative Cooling Technology Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Radiative Cooling Technology Market, Segmentation by Type:

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Paints

Films

Others

Global Radiative Cooling Technology Market, Segmentation by Reflectivity:

Reflectivity Greater Than 96%

Reflectivity Less Than 96%

Global Radiative Cooling Technology Market, Segmentation by Color:

White

Colored

Transparent

Global Radiative Cooling Technology Market, Segmentation by Application:

Construction Industry

Warehousing

Transportation Equipment

Energy and Power Facilities

Others

Companies Profiled:

SPACE COOL

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Azure Era

i2Cool

MG Energy

Radi-Cool

CSCEC

Pirta

Cryox

3M

AkzoNobel

Aorun Advanced Materials

SKSHU Paint

Nippon Paint

Beixin Jiabaoli Coatings

Key Questions Answered:

1. How big is the global Radiative Cooling Technology market?
2. What is the demand of the global Radiative Cooling Technology market?
3. What is the year over year growth of the global Radiative Cooling Technology market?
4. What is the production and production value of the global Radiative Cooling Technology market?
5. Who are the key producers in the global Radiative Cooling Technology market?
6. What are the growth factors driving the market demand?

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