

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

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Abstracts

The global Passive Radiative Cooling Materials 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).

Passive radiative cooling materials are innovative substances designed to reduce temperatures without the use of energy or active cooling systems. These materials work by reflecting sunlight and radiating heat away from the surface in the form of infrared radiation, which escapes into space. They typically have high solar reflectance and high thermal emittance properties, enabling them to maintain cooler temperatures even under direct sunlight. Applications include cooling buildings, vehicles, and electronic devices, potentially leading to significant energy savings and reduced reliance on air conditioning. These materials contribute to sustainable cooling solutions and help mitigate the urban heat island effect and global warming. 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.

The market opportunity for passive radiative cooling materials is strongest where customers value a passive, no-electricity way to cut surface temperatures and reduce cooling loads/peak demand, and where procurement can be ?pulled through? existing cool-roof/cool-surface specification habits?but passive radiative cooling materials must prove incremental value beyond conventional high-reflectance coatings. Competition is therefore less about the basic physics (widely understood) and more about bankable field performance: maintaining high reflectance/emittance over time despite UV exposure, soiling, moisture, and real-world installation variability, with climate effects (humidity/cloud cover) and maintenance practices shaping realized benefits.

Commercial winners tend to be those who can industrialize durable, standards-aligned products (including versions compatible with common roof systems and application methods), document performance with credible testing, and partner with established

coatings/roofing channels?while R&D focus areas like anti-soiling, long-life binders, and scalable film/coating manufacturing determine how quickly passive radiative cooling materials moves from ?specialty? to mainstream building and infrastructure specifications.

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

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

Highlights and key features of the study

Global Passive Radiative Cooling Materials total production and demand, 2021-2032, (Sq m)

Global Passive Radiative Cooling Materials total production value, 2021-2032, (USD Million)

Global Passive Radiative Cooling Materials production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Sq m), (based on production site)

Global Passive Radiative Cooling Materials consumption by region & country, CAGR, 2021-2032 & (Sq m)

U.S. VS China: Passive Radiative Cooling Materials domestic production, consumption, key domestic manufacturers and share

Global Passive Radiative Cooling Materials production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Sq m)

Global Passive Radiative Cooling Materials production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Sq m)

Global Passive Radiative Cooling Materials production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Sq m)

This report profiles key players in the global Passive Radiative Cooling Materials market based on the following parameters - company overview, production, value, price, gross 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 Passive Radiative Cooling Materials 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 Passive Radiative Cooling Materials Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Passive Radiative Cooling Materials Market, Segmentation by Type:

Paints

Films

Others

Global Passive Radiative Cooling Materials Market, Segmentation by Reflectivity:

Reflectivity Greater Than 96%

Reflectivity Less Than 96%

Global Passive Radiative Cooling Materials Market, Segmentation by Color:

White

Colored

Transparent

Global Passive Radiative Cooling Materials Market, Segmentation by Application:

Construction Industry

Warehousing

Transportation Equipment

Energy and Power Facilities

Others

Companies Profiled:

SPACE COOL

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

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