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Global Passive Radiative Cooling Materials Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

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Abstracts

According to our (Global Info Research) latest study, the global Passive Radiative Cooling Materials market size was valued at US$ 22.16 million in 2025 and is forecast to a readjusted size of US$ 100 million by 2032 with a CAGR of 21.6% during review period.

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

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(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 is a detailed and comprehensive analysis for global Passive Radiative Cooling Materials market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

Key Features:

Global Passive Radiative Cooling Materials market size and forecasts, in consumption value ($ Million), sales quantity (Sq m), and average selling prices (US$/Sq m), 2021-2032

Global Passive Radiative Cooling Materials market size and forecasts by region and country, in consumption value ($ Million), sales quantity (Sq m), and average selling prices (US$/Sq m), 2021-2032

Global Passive Radiative Cooling Materials market size and forecasts, by Type and by Application, in consumption value ($ Million), sales quantity (Sq m), and average selling prices (US$/Sq m), 2021-2032

Global Passive Radiative Cooling Materials market shares of main players, shipments in revenue ($ Million), sales quantity (Sq m), and ASP (US$/Sq m), 2021-2026

The Primary Objectives in This Report Are:

To determine the size of the total market opportunity of global and key countries

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To assess the growth potential for Passive Radiative Cooling Materials

To forecast future growth in each product and end-use market

To assess competitive factors affecting the marketplace

This report profiles key players in the global Passive Radiative Cooling Materials market based on the following parameters - company overview, sales quantity, revenue, 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.

Market Segmentation

Passive Radiative Cooling Materials market is split by Type and by Application. For the period 2021-2032, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Type

Paints

Films

Others

Market segment by Reflectivity

Reflectivity Greater Than 96%

Reflectivity Less Than 96%

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Market segment by Color

- White
- Colored
- Transparent

Market segment by Application

- Construction Industry
- Warehousing
- Transportation Equipment
- Energy and Power Facilities
- Others

Major players covered

- SPACE COOL
- Azure Era
- i2Cool
- MG Energy
- Radi-Cool
- CSCEC
- Pirta
- Cryox

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3M

AkzoNobel

Aorun Advanced Materials

SKSHU Paint

Nippon Paint

Beixin Jiabaoli Coatings

Market segment by region, regional analysis covers

North America (United States, Canada, and Mexico)

Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)

Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)

South America (Brazil, Argentina, Colombia, and Rest of South America)

Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

The content of the study subjects, includes a total of 15 chapters:

Chapter 1, to describe Passive Radiative Cooling Materials product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Passive Radiative Cooling Materials, with price, sales quantity, revenue, and global market share of Passive Radiative Cooling Materials from 2021 to 2026.

Chapter 3, the Passive Radiative Cooling Materials competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by

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landscape contrast.

Chapter 4, the Passive Radiative Cooling Materials breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2021 to 2032.

Chapter 5 and 6, to segment the sales by Type and by Application, with sales market share and growth rate by Type, by Application, from 2021 to 2032.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value, and market share for key countries in the world, from 2021 to 2026.and Passive Radiative Cooling Materials market forecast, by regions, by Type, and by Application, with sales and revenue, from 2027 to 2032.

Chapter 12, market dynamics, drivers, restraints, trends, and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of Passive Radiative Cooling Materials.

Chapter 14 and 15, to describe Passive Radiative Cooling Materials sales channel, distributors, customers, research findings and conclusion.

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