

# Global Electricity-free Cooling Technology Supply, Demand and Key Producers, 2026-2032

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## Abstracts

The global Electricity-free Cooling Technology market size is expected to reach \$ 123 million by 2032, rising at a market growth of 25.9% CAGR during the forecast period (2026-2032).

Electricity-free cooling technology refers to passive cooling methods that reduce temperatures without requiring electrical power. These technologies leverage natural processes such as radiative cooling, evaporative cooling, phase-change materials, and heat-reflective surfaces to dissipate heat effectively. Examples include specially designed materials that emit infrared radiation to space, cooling panels that enhance water evaporation, and advanced insulation techniques that minimize heat absorption. These solutions are particularly valuable in off-grid areas, energy-constrained environments, and sustainable architecture, providing an eco-friendly alternative to conventional air conditioning. 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.

Upstream sectors span (1) materials: high-bandgap white pigments/fillers (e.g., BaSO<sub>4</sub>, CaCO<sub>3</sub>, TiO<sub>2</sub>), polymer binders/resins, solvents (for liquid systems), and additives for dispersion, rheology, UV stability, and anti-soiling; (2) substrates & converting: roof membranes, metal panels, plastics, fabrics, primers, adhesives, and packaging; and (3) manufacturing & QA: paint-making/dispersing, film extrusion/lamination or scalable coating processes (e.g., spray/roll/dip/phase-inversion approaches) plus optical/thermal metrology to verify reflectance/emittance consistency. Downstream, Electricity-free cooling technology flow into construction and roofing (new build + retrofit roofs/facades), industrial assets (tanks, warehouses, cold-chain surfaces), and outdoor infrastructure/equipment (enclosures, transport surfaces), typically sold through coating/roofing distributors, contractors, and OEM partnerships; adoption is often gated by standard test metrics (solar reflectance, thermal emittance, and SRI) used in cool-

surface procurement and specifications.

The market opportunity for electricity-free cooling technology 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 electricity-free cooling technology 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 electricity-free cooling technology moves from ?specialty? to mainstream building and infrastructure specifications.

This report studies the global Electricity-free Cooling Technology demand, key companies, and key regions.

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

### **Highlights and key features of the study**

Global Electricity-free Cooling Technology total market, 2021-2032, (USD Million)

Global Electricity-free Cooling Technology total market by region & country, CAGR, 2021-2032, (USD Million)

U.S. VS China: Electricity-free Cooling Technology total market, key domestic companies, and share, (USD Million)

Global Electricity-free Cooling Technology revenue by player, revenue and market share 2021-2026, (USD Million)

Global Electricity-free Cooling Technology total market by Type, CAGR, 2021-2032, (USD Million)

Global Electricity-free Cooling Technology total market by Application, CAGR, 2021-2032, (USD Million)

This report profiles major players in the global Electricity-free Cooling Technology market based on the following parameters - company overview, revenue, 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 Electricity-free Cooling Technology market

**Detailed Segmentation:**

Each section contains quantitative market data including market by value (US\$ Millions), by player, by regions, 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 Electricity-free Cooling Technology Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Electricity-free Cooling Technology Market, Segmentation by Type:

Paints

Films

Others

## Global Electricity-free Cooling Technology Market, Segmentation by Reflectivity:

Reflectivity Greater Than 96%

Reflectivity Less Than 96%

## Global Electricity-free Cooling Technology Market, Segmentation by Color:

White

Colored

Transparent

## Global Electricity-free Cooling Technology 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 Electricity-free Cooling Technology market?
2. What is the demand of the global Electricity-free Cooling Technology market?
3. What is the year over year growth of the global Electricity-free Cooling Technology market?
4. What is the total value of the global Electricity-free Cooling Technology market?
5. Who are the Major Players in the global Electricity-free Cooling Technology market?
6. What are the growth factors driving the market demand?

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