

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

<https://marketpublishers.com/r/G7702B6ED7E9EN.html>

Date: January 2026

Pages: 117

Price: US\$ 4,480.00 (Single User License)

ID: G7702B6ED7E9EN

Abstracts

The global Electricity-free Cooling Materials 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 materials are innovative materials designed to reduce temperatures without relying on external energy sources. These materials typically utilize passive radiative cooling, phase-change properties, or advanced coatings to dissipate heat efficiently. By reflecting solar radiation and emitting thermal energy into the cold universe through the atmospheric transparency window (8-13 μ m), they enable sustainable cooling solutions for buildings, electronics, and food storage. Such materials offer an eco-friendly alternative to traditional cooling methods, reducing energy consumption and mitigating urban heat effects. 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 therefore span (1) materials: high-bandgap white pigments/fillers (e.g., BaSO₄, CaCO₃, TiO₂), 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 materials 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 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 electricity-free 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 electricity-free cooling materials moves from ?specialty? to mainstream building and infrastructure specifications.

This report studies the global Electricity-free Cooling Materials production, demand, key manufacturers, and key regions.

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

Highlights and key features of the study

Global Electricity-free Cooling Materials total production and demand, 2021-2032, (K Sqm)

Global Electricity-free Cooling Materials total production value, 2021-2032, (USD Million)

Global Electricity-free Cooling Materials production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Sqm), (based on production site)

Global Electricity-free Cooling Materials consumption by region & country, CAGR, 2021-2032 & (K Sqm)

U.S. VS China: Electricity-free Cooling Materials domestic production, consumption, key domestic manufacturers and share

Global Electricity-free Cooling Materials production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Sqm)

Global Electricity-free Cooling Materials production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K Sqm)

Global Electricity-free Cooling Materials production by Application, production, value,

CAGR, 2021-2032, (USD Million) & (K Sqm)

This report profiles key players in the global Electricity-free 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 Electricity-free Cooling Materials market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (K Sqm) 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 Electricity-free Cooling Materials Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

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

Paints

Films

Others

Global Electricity-free Cooling Materials Market, Segmentation by Reflectivity:

Reflectivity Greater Than 96%

Reflectivity Less Than 96%

Global Electricity-free Cooling Materials Market, Segmentation by Color:

White

Colored

Transparent

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

Contents

1 SUPPLY SUMMARY

- 1.1 Electricity-free Cooling Materials Introduction
- 1.2 World Electricity-free Cooling Materials Supply & Forecast
 - 1.2.1 World Electricity-free Cooling Materials Production Value (2021 & 2025 & 2032)
 - 1.2.2 World Electricity-free Cooling Materials Production (2021-2032)
 - 1.2.3 World Electricity-free Cooling Materials Pricing Trends (2021-2032)
- 1.3 World Electricity-free Cooling Materials Production by Region (Based on Production Site)
 - 1.3.1 World Electricity-free Cooling Materials Production Value by Region (2021-2032)
 - 1.3.2 World Electricity-free Cooling Materials Production by Region (2021-2032)
 - 1.3.3 World Electricity-free Cooling Materials Average Price by Region (2021-2032)
 - 1.3.4 North America Electricity-free Cooling Materials Production (2021-2032)
 - 1.3.5 Europe Electricity-free Cooling Materials Production (2021-2032)
 - 1.3.6 China Electricity-free Cooling Materials Production (2021-2032)
 - 1.3.7 Japan Electricity-free Cooling Materials Production (2021-2032)
 - 1.3.8 India Electricity-free Cooling Materials Production (2021-2032)
 - 1.3.9 Southeast Asia Electricity-free Cooling Materials Production (2021-2032)
- 1.4 Market Drivers, Restraints and Trends
 - 1.4.1 Electricity-free Cooling Materials Market Drivers
 - 1.4.2 Factors Affecting Demand
 - 1.4.3 Electricity-free Cooling Materials Major Market Trends

2 DEMAND SUMMARY

- 2.1 World Electricity-free Cooling Materials Demand (2021-2032)
- 2.2 World Electricity-free Cooling Materials Consumption by Region
 - 2.2.1 World Electricity-free Cooling Materials Consumption by Region (2021-2026)
 - 2.2.2 World Electricity-free Cooling Materials Consumption Forecast by Region (2027-2032)
- 2.3 United States Electricity-free Cooling Materials Consumption (2021-2032)
- 2.4 China Electricity-free Cooling Materials Consumption (2021-2032)
- 2.5 Europe Electricity-free Cooling Materials Consumption (2021-2032)
- 2.6 Japan Electricity-free Cooling Materials Consumption (2021-2032)
- 2.7 South Korea Electricity-free Cooling Materials Consumption (2021-2032)
- 2.8 ASEAN Electricity-free Cooling Materials Consumption (2021-2032)
- 2.9 India Electricity-free Cooling Materials Consumption (2021-2032)

3 WORLD MANUFACTURERS COMPETITIVE ANALYSIS

- 3.1 World Electricity-free Cooling Materials Production Value by Manufacturer (2021-2026)
- 3.2 World Electricity-free Cooling Materials Production by Manufacturer (2021-2026)
- 3.3 World Electricity-free Cooling Materials Average Price by Manufacturer (2021-2026)
- 3.4 Electricity-free Cooling Materials Company Evaluation Quadrant
- 3.5 Industry Rank and Concentration Rate (CR)
 - 3.5.1 Global Electricity-free Cooling Materials Industry Rank of Major Manufacturers
 - 3.5.2 Global Concentration Ratios (CR4) for Electricity-free Cooling Materials in 2025
 - 3.5.3 Global Concentration Ratios (CR8) for Electricity-free Cooling Materials in 2025
- 3.6 Electricity-free Cooling Materials Market: Overall Company Footprint Analysis
 - 3.6.1 Electricity-free Cooling Materials Market: Region Footprint
 - 3.6.2 Electricity-free Cooling Materials Market: Company Product Type Footprint
 - 3.6.3 Electricity-free Cooling Materials Market: Company Product Application Footprint
- 3.7 Competitive Environment
 - 3.7.1 Historical Structure of the Industry
 - 3.7.2 Barriers of Market Entry
 - 3.7.3 Factors of Competition
- 3.8 New Entrant and Capacity Expansion Plans
- 3.9 Mergers, Acquisition, Agreements, and Collaborations

4 UNITED STATES VS CHINA VS REST OF THE WORLD

- 4.1 United States VS China: Electricity-free Cooling Materials Production Value Comparison
 - 4.1.1 United States VS China: Electricity-free Cooling Materials Production Value Comparison (2021 & 2025 & 2032)
 - 4.1.2 United States VS China: Electricity-free Cooling Materials Production Value Market Share Comparison (2021 & 2025 & 2032)
- 4.2 United States VS China: Electricity-free Cooling Materials Production Comparison
 - 4.2.1 United States VS China: Electricity-free Cooling Materials Production Comparison (2021 & 2025 & 2032)
 - 4.2.2 United States VS China: Electricity-free Cooling Materials Production Market Share Comparison (2021 & 2025 & 2032)
- 4.3 United States VS China: Electricity-free Cooling Materials Consumption Comparison
 - 4.3.1 United States VS China: Electricity-free Cooling Materials Consumption Comparison (2021 & 2025 & 2032)

4.3.2 United States VS China: Electricity-free Cooling Materials Consumption Market Share Comparison (2021 & 2025 & 2032)

4.4 United States Based Electricity-free Cooling Materials Manufacturers and Market Share, 2021-2026

4.4.1 United States Based Electricity-free Cooling Materials Manufacturers, Headquarters and Production Site (States, Country)

4.4.2 United States Based Manufacturers Electricity-free Cooling Materials Production Value (2021-2026)

4.4.3 United States Based Manufacturers Electricity-free Cooling Materials Production (2021-2026)

4.5 China Based Electricity-free Cooling Materials Manufacturers and Market Share

4.5.1 China Based Electricity-free Cooling Materials Manufacturers, Headquarters and Production Site (Province, Country)

4.5.2 China Based Manufacturers Electricity-free Cooling Materials Production Value (2021-2026)

4.5.3 China Based Manufacturers Electricity-free Cooling Materials Production (2021-2026)

4.6 Rest of World Based Electricity-free Cooling Materials Manufacturers and Market Share, 2021-2026

4.6.1 Rest of World Based Electricity-free Cooling Materials Manufacturers, Headquarters and Production Site (State, Country)

4.6.2 Rest of World Based Manufacturers Electricity-free Cooling Materials Production Value (2021-2026)

4.6.3 Rest of World Based Manufacturers Electricity-free Cooling Materials Production (2021-2026)

5 MARKET ANALYSIS BY TYPE

5.1 World Electricity-free Cooling Materials Market Size Overview by Type: 2021 VS 2025 VS 2032

5.2 Segment Introduction by Type

5.2.1 Paints

5.2.2 Films

5.2.3 Others

5.3 Market Segment by Type

5.3.1 World Electricity-free Cooling Materials Production by Type (2021-2032)

5.3.2 World Electricity-free Cooling Materials Production Value by Type (2021-2032)

5.3.3 World Electricity-free Cooling Materials Average Price by Type (2021-2032)

6 MARKET ANALYSIS BY REFLECTIVITY

6.1 World Electricity-free Cooling Materials Market Size Overview by Reflectivity: 2021 VS 2025 VS 2032

6.2 Segment Introduction by Reflectivity

6.2.1 Reflectivity Greater Than 96%

6.2.2 Reflectivity Less Than 96%

6.3 Market Segment by Reflectivity

6.3.1 World Electricity-free Cooling Materials Production by Reflectivity (2021-2032)

6.3.2 World Electricity-free Cooling Materials Production Value by Reflectivity (2021-2032)

6.3.3 World Electricity-free Cooling Materials Average Price by Reflectivity (2021-2032)

7 MARKET ANALYSIS BY COLOR

7.1 World Electricity-free Cooling Materials Market Size Overview by Color: 2021 VS 2025 VS 2032

7.2 Segment Introduction by Color

7.2.1 White

7.2.2 Colored

7.2.3 Transparent

7.3 Market Segment by Color

7.3.1 World Electricity-free Cooling Materials Production by Color (2021-2032)

7.3.2 World Electricity-free Cooling Materials Production Value by Color (2021-2032)

7.3.3 World Electricity-free Cooling Materials Average Price by Color (2021-2032)

8 MARKET ANALYSIS BY APPLICATION

8.1 World Electricity-free Cooling Materials Market Size Overview by Application: 2021 VS 2025 VS 2032

8.2 Segment Introduction by Application

8.2.1 Construction Industry

8.2.2 Warehousing

8.2.3 Transportation Equipment

8.2.4 Energy and Power Facilities

8.2.5 Others

8.3 Market Segment by Application

8.3.1 World Electricity-free Cooling Materials Production by Application (2021-2032)

8.3.2 World Electricity-free Cooling Materials Production Value by Application (2021-2032)

8.3.3 World Electricity-free Cooling Materials Average Price by Application (2021-2032)

9 COMPANY PROFILES

9.1 SPACE COOL

9.1.1 SPACE COOL Details

9.1.2 SPACE COOL Major Business

9.1.3 SPACE COOL Electricity-free Cooling Materials Product and Services

9.1.4 SPACE COOL Electricity-free Cooling Materials Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.1.5 SPACE COOL Recent Developments/Updates

9.1.6 SPACE COOL Competitive Strengths & Weaknesses

9.2 Azure Era

9.2.1 Azure Era Details

9.2.2 Azure Era Major Business

9.2.3 Azure Era Electricity-free Cooling Materials Product and Services

9.2.4 Azure Era Electricity-free Cooling Materials Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.2.5 Azure Era Recent Developments/Updates

9.2.6 Azure Era Competitive Strengths & Weaknesses

9.3 i2Cool

9.3.1 i2Cool Details

9.3.2 i2Cool Major Business

9.3.3 i2Cool Electricity-free Cooling Materials Product and Services

9.3.4 i2Cool Electricity-free Cooling Materials Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.3.5 i2Cool Recent Developments/Updates

9.3.6 i2Cool Competitive Strengths & Weaknesses

9.4 MG Energy

9.4.1 MG Energy Details

9.4.2 MG Energy Major Business

9.4.3 MG Energy Electricity-free Cooling Materials Product and Services

9.4.4 MG Energy Electricity-free Cooling Materials Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.4.5 MG Energy Recent Developments/Updates

9.4.6 MG Energy Competitive Strengths & Weaknesses

9.5 Radi-Cool

9.5.1 Radi-Cool Details

9.5.2 Radi-Cool Major Business

9.5.3 Radi-Cool Electricity-free Cooling Materials Product and Services

9.5.4 Radi-Cool Electricity-free Cooling Materials Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.5.5 Radi-Cool Recent Developments/Updates

9.5.6 Radi-Cool Competitive Strengths & Weaknesses

9.6 CSCEC

9.6.1 CSCEC Details

9.6.2 CSCEC Major Business

9.6.3 CSCEC Electricity-free Cooling Materials Product and Services

9.6.4 CSCEC Electricity-free Cooling Materials Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.6.5 CSCEC Recent Developments/Updates

9.6.6 CSCEC Competitive Strengths & Weaknesses

9.7 Pirta

9.7.1 Pirta Details

9.7.2 Pirta Major Business

9.7.3 Pirta Electricity-free Cooling Materials Product and Services

9.7.4 Pirta Electricity-free Cooling Materials Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.7.5 Pirta Recent Developments/Updates

9.7.6 Pirta Competitive Strengths & Weaknesses

9.8 Cryox

9.8.1 Cryox Details

9.8.2 Cryox Major Business

9.8.3 Cryox Electricity-free Cooling Materials Product and Services

9.8.4 Cryox Electricity-free Cooling Materials Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.8.5 Cryox Recent Developments/Updates

9.8.6 Cryox Competitive Strengths & Weaknesses

9.9 3M

9.9.1 3M Details

9.9.2 3M Major Business

9.9.3 3M Electricity-free Cooling Materials Product and Services

9.9.4 3M Electricity-free Cooling Materials Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.9.5 3M Recent Developments/Updates

- 9.9.6 3M Competitive Strengths & Weaknesses
- 9.10 AkzoNobel
 - 9.10.1 AkzoNobel Details
 - 9.10.2 AkzoNobel Major Business
 - 9.10.3 AkzoNobel Electricity-free Cooling Materials Product and Services
 - 9.10.4 AkzoNobel Electricity-free Cooling Materials Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.10.5 AkzoNobel Recent Developments/Updates
 - 9.10.6 AkzoNobel Competitive Strengths & Weaknesses
- 9.11 Aorun Advanced Materials
 - 9.11.1 Aorun Advanced Materials Details
 - 9.11.2 Aorun Advanced Materials Major Business
 - 9.11.3 Aorun Advanced Materials Electricity-free Cooling Materials Product and Services
 - 9.11.4 Aorun Advanced Materials Electricity-free Cooling Materials Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.11.5 Aorun Advanced Materials Recent Developments/Updates
 - 9.11.6 Aorun Advanced Materials Competitive Strengths & Weaknesses
- 9.12 SKSHU Paint
 - 9.12.1 SKSHU Paint Details
 - 9.12.2 SKSHU Paint Major Business
 - 9.12.3 SKSHU Paint Electricity-free Cooling Materials Product and Services
 - 9.12.4 SKSHU Paint Electricity-free Cooling Materials Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.12.5 SKSHU Paint Recent Developments/Updates
 - 9.12.6 SKSHU Paint Competitive Strengths & Weaknesses
- 9.13 Nippon Paint
 - 9.13.1 Nippon Paint Details
 - 9.13.2 Nippon Paint Major Business
 - 9.13.3 Nippon Paint Electricity-free Cooling Materials Product and Services
 - 9.13.4 Nippon Paint Electricity-free Cooling Materials Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.13.5 Nippon Paint Recent Developments/Updates
 - 9.13.6 Nippon Paint Competitive Strengths & Weaknesses
- 9.14 Beixin Jiabaoli Coatings
 - 9.14.1 Beixin Jiabaoli Coatings Details
 - 9.14.2 Beixin Jiabaoli Coatings Major Business
 - 9.14.3 Beixin Jiabaoli Coatings Electricity-free Cooling Materials Product and Services
 - 9.14.4 Beixin Jiabaoli Coatings Electricity-free Cooling Materials Production, Price,

Value, Gross Margin and Market Share (2021-2026)

9.14.5 Beixin Jiabaoli Coatings Recent Developments/Updates

9.14.6 Beixin Jiabaoli Coatings Competitive Strengths & Weaknesses

10 INDUSTRY CHAIN ANALYSIS

10.1 Electricity-free Cooling Materials Industry Chain

10.2 Electricity-free Cooling Materials Upstream Analysis

10.2.1 Electricity-free Cooling Materials Core Raw Materials

10.2.2 Main Manufacturers of Electricity-free Cooling Materials Core Raw Materials

10.3 Midstream Analysis

10.4 Downstream Analysis

10.5 Electricity-free Cooling Materials Production Mode

10.6 Electricity-free Cooling Materials Procurement Model

10.7 Electricity-free Cooling Materials Industry Sales Model and Sales Channels

10.7.1 Electricity-free Cooling Materials Sales Model

10.7.2 Electricity-free Cooling Materials Typical Distributors

11 RESEARCH FINDINGS AND CONCLUSION

12 APPENDIX

12.1 Methodology

12.2 Research Process and Data Source

12.3 Disclaimer

List Of Tables

LIST OF TABLES

Table 1. World Electricity-free Cooling Materials Production Value by Region (2021, 2025 and 2032) & (USD Million)

Table 2. World Electricity-free Cooling Materials Production Value by Region (2021-2026) & (USD Million)

Table 3. World Electricity-free Cooling Materials Production Value by Region (2027-2032) & (USD Million)

Table 4. World Electricity-free Cooling Materials Production Value Market Share by Region (2021-2026)

Table 5. World Electricity-free Cooling Materials Production Value Market Share by Region (2027-2032)

Table 6. World Electricity-free Cooling Materials Production by Region (2021-2026) & (K Sqm)

Table 7. World Electricity-free Cooling Materials Production by Region (2027-2032) & (K Sqm)

Table 8. World Electricity-free Cooling Materials Production Market Share by Region (2021-2026)

Table 9. World Electricity-free Cooling Materials Production Market Share by Region (2027-2032)

Table 10. World Electricity-free Cooling Materials Average Price by Region (2021-2026) & (US\$/Sq m)

Table 11. World Electricity-free Cooling Materials Average Price by Region (2027-2032) & (US\$/Sq m)

Table 12. Electricity-free Cooling Materials Major Market Trends

Table 13. World Electricity-free Cooling Materials Consumption Growth Rate Forecast by Region (2021 & 2025 & 2032) & (K Sqm)

Table 14. World Electricity-free Cooling Materials Consumption by Region (2021-2026) & (K Sqm)

Table 15. World Electricity-free Cooling Materials Consumption Forecast by Region (2027-2032) & (K Sqm)

Table 16. World Electricity-free Cooling Materials Production Value by Manufacturer (2021-2026) & (USD Million)

Table 17. Production Value Market Share of Key Electricity-free Cooling Materials Producers in 2025

Table 18. World Electricity-free Cooling Materials Production by Manufacturer (2021-2026) & (K Sqm)

Table 19. Production Market Share of Key Electricity-free Cooling Materials Producers in 2025

Table 20. World Electricity-free Cooling Materials Average Price by Manufacturer (2021-2026) & (US\$/Sq m)

Table 21. Global Electricity-free Cooling Materials Company Evaluation Quadrant

Table 22. World Electricity-free Cooling Materials Industry Rank of Major Manufacturers, Based on Production Value in 2025

Table 23. Head Office and Electricity-free Cooling Materials Production Site of Key Manufacturer

Table 24. Electricity-free Cooling Materials Market: Company Product Type Footprint

Table 25. Electricity-free Cooling Materials Market: Company Product Application Footprint

Table 26. Electricity-free Cooling Materials Competitive Factors

Table 27. Electricity-free Cooling Materials New Entrant and Capacity Expansion Plans

Table 28. Electricity-free Cooling Materials Mergers & Acquisitions Activity

Table 29. United States VS China Electricity-free Cooling Materials Production Value Comparison, (2021 & 2025 & 2032) & (USD Million)

Table 30. United States VS China Electricity-free Cooling Materials Production Comparison, (2021 & 2025 & 2032) & (K Sqm)

Table 31. United States VS China Electricity-free Cooling Materials Consumption Comparison, (2021 & 2025 & 2032) & (K Sqm)

Table 32. United States Based Electricity-free Cooling Materials Manufacturers, Headquarters and Production Site (States, Country)

Table 33. United States Based Manufacturers Electricity-free Cooling Materials Production Value, (2021-2026) & (USD Million)

Table 34. United States Based Manufacturers Electricity-free Cooling Materials Production Value Market Share (2021-2026)

Table 35. United States Based Manufacturers Electricity-free Cooling Materials Production (2021-2026) & (K Sqm)

Table 36. United States Based Manufacturers Electricity-free Cooling Materials Production Market Share (2021-2026)

Table 37. China Based Electricity-free Cooling Materials Manufacturers, Headquarters and Production Site (Province, Country)

Table 38. China Based Manufacturers Electricity-free Cooling Materials Production Value, (2021-2026) & (USD Million)

Table 39. China Based Manufacturers Electricity-free Cooling Materials Production Value Market Share (2021-2026)

Table 40. China Based Manufacturers Electricity-free Cooling Materials Production, (2021-2026) & (K Sqm)

Table 41. China Based Manufacturers Electricity-free Cooling Materials Production Market Share (2021-2026)

Table 42. Rest of World Based Electricity-free Cooling Materials Manufacturers, Headquarters and Production Site (State, Country)

Table 43. Rest of World Based Manufacturers Electricity-free Cooling Materials Production Value, (2021-2026) & (USD Million)

Table 44. Rest of World Based Manufacturers Electricity-free Cooling Materials Production Value Market Share (2021-2026)

Table 45. Rest of World Based Manufacturers Electricity-free Cooling Materials Production, (2021-2026) & (K Sqm)

Table 46. Rest of World Based Manufacturers Electricity-free Cooling Materials Production Market Share (2021-2026)

Table 47. World Electricity-free Cooling Materials Production Value by Type, (USD Million), 2021 & 2025 & 2032

Table 48. World Electricity-free Cooling Materials Production by Type (2021-2026) & (K Sqm)

Table 49. World Electricity-free Cooling Materials Production by Type (2027-2032) & (K Sqm)

Table 50. World Electricity-free Cooling Materials Production Value by Type (2021-2026) & (USD Million)

Table 51. World Electricity-free Cooling Materials Production Value by Type (2027-2032) & (USD Million)

Table 52. World Electricity-free Cooling Materials Average Price by Type (2021-2026) & (US\$/Sq m)

Table 53. World Electricity-free Cooling Materials Average Price by Type (2027-2032) & (US\$/Sq m)

Table 54. World Electricity-free Cooling Materials Production Value by Reflectivity, (USD Million), 2021 & 2025 & 2032

Table 55. World Electricity-free Cooling Materials Production by Reflectivity (2021-2026) & (K Sqm)

Table 56. World Electricity-free Cooling Materials Production by Reflectivity (2027-2032) & (K Sqm)

Table 57. World Electricity-free Cooling Materials Production Value by Reflectivity (2021-2026) & (USD Million)

Table 58. World Electricity-free Cooling Materials Production Value by Reflectivity (2027-2032) & (USD Million)

Table 59. World Electricity-free Cooling Materials Average Price by Reflectivity (2021-2026) & (US\$/Sq m)

Table 60. World Electricity-free Cooling Materials Average Price by Reflectivity

(2027-2032) & (US\$/Sq m)

Table 61. World Electricity-free Cooling Materials Production Value by Color, (USD Million), 2021 & 2025 & 2032

Table 62. World Electricity-free Cooling Materials Production by Color (2021-2026) & (K Sqm)

Table 63. World Electricity-free Cooling Materials Production by Color (2027-2032) & (K Sqm)

Table 64. World Electricity-free Cooling Materials Production Value by Color (2021-2026) & (USD Million)

Table 65. World Electricity-free Cooling Materials Production Value by Color (2027-2032) & (USD Million)

Table 66. World Electricity-free Cooling Materials Average Price by Color (2021-2026) & (US\$/Sq m)

Table 67. World Electricity-free Cooling Materials Average Price by Color (2027-2032) & (US\$/Sq m)

Table 68. World Electricity-free Cooling Materials Production Value by Application, (USD Million), 2021 & 2025 & 2032

Table 69. World Electricity-free Cooling Materials Production by Application (2021-2026) & (K Sqm)

Table 70. World Electricity-free Cooling Materials Production by Application (2027-2032) & (K Sqm)

Table 71. World Electricity-free Cooling Materials Production Value by Application (2021-2026) & (USD Million)

Table 72. World Electricity-free Cooling Materials Production Value by Application (2027-2032) & (USD Million)

Table 73. World Electricity-free Cooling Materials Average Price by Application (2021-2026) & (US\$/Sq m)

Table 74. World Electricity-free Cooling Materials Average Price by Application (2027-2032) & (US\$/Sq m)

Table 75. SPACE COOL Basic Information, Manufacturing Base and Competitors

Table 76. SPACE COOL Major Business

Table 77. SPACE COOL Electricity-free Cooling Materials Product and Services

Table 78. SPACE COOL Electricity-free Cooling Materials Production (K Sqm), Price (US\$/Sq m), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 79. SPACE COOL Recent Developments/Updates

Table 80. SPACE COOL Competitive Strengths & Weaknesses

Table 81. Azure Era Basic Information, Manufacturing Base and Competitors

Table 82. Azure Era Major Business

- Table 83. Azure Era Electricity-free Cooling Materials Product and Services
- Table 84. Azure Era Electricity-free Cooling Materials Production (K Sqm), Price (US\$/Sq m), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 85. Azure Era Recent Developments/Updates
- Table 86. Azure Era Competitive Strengths & Weaknesses
- Table 87. i2Cool Basic Information, Manufacturing Base and Competitors
- Table 88. i2Cool Major Business
- Table 89. i2Cool Electricity-free Cooling Materials Product and Services
- Table 90. i2Cool Electricity-free Cooling Materials Production (K Sqm), Price (US\$/Sq m), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 91. i2Cool Recent Developments/Updates
- Table 92. i2Cool Competitive Strengths & Weaknesses
- Table 93. MG Energy Basic Information, Manufacturing Base and Competitors
- Table 94. MG Energy Major Business
- Table 95. MG Energy Electricity-free Cooling Materials Product and Services
- Table 96. MG Energy Electricity-free Cooling Materials Production (K Sqm), Price (US\$/Sq m), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 97. MG Energy Recent Developments/Updates
- Table 98. MG Energy Competitive Strengths & Weaknesses
- Table 99. Radi-Cool Basic Information, Manufacturing Base and Competitors
- Table 100. Radi-Cool Major Business
- Table 101. Radi-Cool Electricity-free Cooling Materials Product and Services
- Table 102. Radi-Cool Electricity-free Cooling Materials Production (K Sqm), Price (US\$/Sq m), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 103. Radi-Cool Recent Developments/Updates
- Table 104. Radi-Cool Competitive Strengths & Weaknesses
- Table 105. CSCEC Basic Information, Manufacturing Base and Competitors
- Table 106. CSCEC Major Business
- Table 107. CSCEC Electricity-free Cooling Materials Product and Services
- Table 108. CSCEC Electricity-free Cooling Materials Production (K Sqm), Price (US\$/Sq m), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 109. CSCEC Recent Developments/Updates
- Table 110. CSCEC Competitive Strengths & Weaknesses
- Table 111. Pirta Basic Information, Manufacturing Base and Competitors
- Table 112. Pirta Major Business

- Table 113. Pirta Electricity-free Cooling Materials Product and Services
- Table 114. Pirta Electricity-free Cooling Materials Production (K Sqm), Price (US\$/Sq m), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 115. Pirta Recent Developments/Updates
- Table 116. Pirta Competitive Strengths & Weaknesses
- Table 117. Cryox Basic Information, Manufacturing Base and Competitors
- Table 118. Cryox Major Business
- Table 119. Cryox Electricity-free Cooling Materials Product and Services
- Table 120. Cryox Electricity-free Cooling Materials Production (K Sqm), Price (US\$/Sq m), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 121. Cryox Recent Developments/Updates
- Table 122. Cryox Competitive Strengths & Weaknesses
- Table 123. 3M Basic Information, Manufacturing Base and Competitors
- Table 124. 3M Major Business
- Table 125. 3M Electricity-free Cooling Materials Product and Services
- Table 126. 3M Electricity-free Cooling Materials Production (K Sqm), Price (US\$/Sq m), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 127. 3M Recent Developments/Updates
- Table 128. 3M Competitive Strengths & Weaknesses
- Table 129. AkzoNobel Basic Information, Manufacturing Base and Competitors
- Table 130. AkzoNobel Major Business
- Table 131. AkzoNobel Electricity-free Cooling Materials Product and Services
- Table 132. AkzoNobel Electricity-free Cooling Materials Production (K Sqm), Price (US\$/Sq m), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 133. AkzoNobel Recent Developments/Updates
- Table 134. AkzoNobel Competitive Strengths & Weaknesses
- Table 135. Aorun Advanced Materials Basic Information, Manufacturing Base and Competitors
- Table 136. Aorun Advanced Materials Major Business
- Table 137. Aorun Advanced Materials Electricity-free Cooling Materials Product and Services
- Table 138. Aorun Advanced Materials Electricity-free Cooling Materials Production (K Sqm), Price (US\$/Sq m), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 139. Aorun Advanced Materials Recent Developments/Updates
- Table 140. Aorun Advanced Materials Competitive Strengths & Weaknesses
- Table 141. SKSHU Paint Basic Information, Manufacturing Base and Competitors
- Table 142. SKSHU Paint Major Business

Table 143. SKSHU Paint Electricity-free Cooling Materials Product and Services

Table 144. SKSHU Paint Electricity-free Cooling Materials Production (K Sqm), Price (US\$/Sq m), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 145. SKSHU Paint Recent Developments/Updates

Table 146. SKSHU Paint Competitive Strengths & Weaknesses

Table 147. Nippon Paint Basic Information, Manufacturing Base and Competitors

Table 148. Nippon Paint Major Business

Table 149. Nippon Paint Electricity-free Cooling Materials Product and Services

Table 150. Nippon Paint Electricity-free Cooling Materials Production (K Sqm), Price (US\$/Sq m), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 151. Nippon Paint Recent Developments/Updates

Table 152. Nippon Paint Competitive Strengths & Weaknesses

Table 153. Beixin Jiabaoli Coatings Basic Information, Manufacturing Base and Competitors

Table 154. Beixin Jiabaoli Coatings Major Business

Table 155. Beixin Jiabaoli Coatings Electricity-free Cooling Materials Product and Services

Table 156. Beixin Jiabaoli Coatings Electricity-free Cooling Materials Production (K Sqm), Price (US\$/Sq m), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 157. Beixin Jiabaoli Coatings Recent Developments/Updates

Table 158. Beixin Jiabaoli Coatings Competitive Strengths & Weaknesses

Table 159. Global Key Players of Electricity-free Cooling Materials Upstream (Raw Materials)

Table 160. Global Electricity-free Cooling Materials Typical Customers

Table 161. Electricity-free Cooling Materials Typical Distributors

List Of Figures

LIST OF FIGURES

Figure 1. Electricity-free Cooling Materials Picture

Figure 2. World Electricity-free Cooling Materials Production Value: 2021 & 2025 & 2032, (USD Million)

Figure 3. World Electricity-free Cooling Materials Production Value and Forecast (2021-2032) & (USD Million)

Figure 4. World Electricity-free Cooling Materials Production (2021-2032) & (K Sqm)

Figure 5. World Electricity-free Cooling Materials Average Price (2021-2032) & (US\$/Sq m)

Figure 6. World Electricity-free Cooling Materials Production Value Market Share by Region (2021-2032)

Figure 7. World Electricity-free Cooling Materials Production Market Share by Region (2021-2032)

Figure 8. North America Electricity-free Cooling Materials Production (2021-2032) & (K Sqm)

Figure 9. Europe Electricity-free Cooling Materials Production (2021-2032) & (K Sqm)

Figure 10. China Electricity-free Cooling Materials Production (2021-2032) & (K Sqm)

Figure 11. Japan Electricity-free Cooling Materials Production (2021-2032) & (K Sqm)

Figure 12. India Electricity-free Cooling Materials Production (2021-2032) & (K Sqm)

Figure 13. Southeast Asia Electricity-free Cooling Materials Production (2021-2032) & (K Sqm)

Figure 14. Electricity-free Cooling Materials Market Drivers

Figure 15. Factors Affecting Demand

Figure 16. World Electricity-free Cooling Materials Consumption (2021-2032) & (K Sqm)

Figure 17. World Electricity-free Cooling Materials Consumption Market Share by Region (2021-2032)

Figure 18. United States Electricity-free Cooling Materials Consumption (2021-2032) & (K Sqm)

Figure 19. China Electricity-free Cooling Materials Consumption (2021-2032) & (K Sqm)

Figure 20. Europe Electricity-free Cooling Materials Consumption (2021-2032) & (K Sqm)

Figure 21. Japan Electricity-free Cooling Materials Consumption (2021-2032) & (K Sqm)

Figure 22. South Korea Electricity-free Cooling Materials Consumption (2021-2032) & (K Sqm)

Figure 23. ASEAN Electricity-free Cooling Materials Consumption (2021-2032) & (K Sqm)

- Figure 24. India Electricity-free Cooling Materials Consumption (2021-2032) & (K Sqm)
- Figure 25. Producer Shipments of Electricity-free Cooling Materials by Manufacturer Revenue (\$MM) and Market Share (%): 2025
- Figure 26. Global Four-firm Concentration Ratios (CR4) for Electricity-free Cooling Materials Markets in 2025
- Figure 27. Global Four-firm Concentration Ratios (CR8) for Electricity-free Cooling Materials Markets in 2025
- Figure 28. United States VS China: Electricity-free Cooling Materials Production Value Market Share Comparison (2021 & 2025 & 2032)
- Figure 29. United States VS China: Electricity-free Cooling Materials Production Market Share Comparison (2021 & 2025 & 2032)
- Figure 30. United States VS China: Electricity-free Cooling Materials Consumption Market Share Comparison (2021 & 2025 & 2032)
- Figure 31. United States Based Manufacturers Electricity-free Cooling Materials Production Market Share 2025
- Figure 32. China Based Manufacturers Electricity-free Cooling Materials Production Market Share 2025
- Figure 33. Rest of World Based Manufacturers Electricity-free Cooling Materials Production Market Share 2025
- Figure 34. World Electricity-free Cooling Materials Production Value by Type, (USD Million), 2021 & 2025 & 2032
- Figure 35. World Electricity-free Cooling Materials Production Value Market Share by Type in 2025
- Figure 36. Paints
- Figure 37. Films
- Figure 38. Others
- Figure 39. World Electricity-free Cooling Materials Production Market Share by Type (2021-2032)
- Figure 40. World Electricity-free Cooling Materials Production Value Market Share by Type (2021-2032)
- Figure 41. World Electricity-free Cooling Materials Average Price by Type (2021-2032) & (US\$/Sq m)
- Figure 42. World Electricity-free Cooling Materials Production Value by Reflectivity, (USD Million), 2021 & 2025 & 2032
- Figure 43. World Electricity-free Cooling Materials Production Value Market Share by Reflectivity in 2025
- Figure 44. Reflectivity Greater Than 96%
- Figure 45. Reflectivity Less Than 96%
- Figure 46. World Electricity-free Cooling Materials Production Market Share by

Reflectivity (2021-2032)

Figure 47. World Electricity-free Cooling Materials Production Value Market Share by Reflectivity (2021-2032)

Figure 48. World Electricity-free Cooling Materials Average Price by Reflectivity (2021-2032) & (US\$/Sq m)

Figure 49. World Electricity-free Cooling Materials Production Value by Color, (USD Million), 2021 & 2025 & 2032

Figure 50. World Electricity-free Cooling Materials Production Value Market Share by Color in 2025

Figure 51. White

Figure 52. Colored

Figure 53. Transparent

Figure 54. World Electricity-free Cooling Materials Production Market Share by Color (2021-2032)

Figure 55. World Electricity-free Cooling Materials Production Value Market Share by Color (2021-2032)

Figure 56. World Electricity-free Cooling Materials Average Price by Color (2021-2032) & (US\$/Sq m)

Figure 57. World Electricity-free Cooling Materials Production Value by Application, (USD Million), 2021 & 2025 & 2032

Figure 58. World Electricity-free Cooling Materials Production Value Market Share by Application in 2025

Figure 59. Construction Industry

Figure 60. Warehousing

Figure 61. Transportation Equipment

Figure 62. Energy and Power Facilities

Figure 63. Others

Figure 64. World Electricity-free Cooling Materials Production Market Share by Application (2021-2032)

Figure 65. World Electricity-free Cooling Materials Production Value Market Share by Application (2021-2032)

Figure 66. World Electricity-free Cooling Materials Average Price by Application (2021-2032) & (US\$/Sq m)

Figure 67. Electricity-free Cooling Materials Industry Chain

Figure 68. Electricity-free Cooling Materials Procurement Model

Figure 69. Electricity-free Cooling Materials Sales Model

Figure 70. Electricity-free Cooling Materials Sales Channels, Direct Sales, and Distribution

Figure 71. Methodology

Figure 72. Research Process and Data Source

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