

Global Perovskite Photovoltaic Additives Market Growth 2026-2032

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Abstracts

The global Perovskite Photovoltaic Additives market size is predicted to grow from US\$ 27.39 million in 2025 to US\$ 255 million in 2032; it is expected to grow at a CAGR of 36.1% from 2026 to 2032.

Perovskite Photovoltaic Additives are functional chemicals used in the production or R&D of perovskite solar cells, perovskite modules, and perovskite/silicon tandem cells. The statistical scope includes solid or solution products such as film formation regulators, defect passivation agents, interfacial additives, stabilization additives, and charge transport modifiers. These products are typically used in small quantities, command high unit prices, and require strict batch verification, with an estimated overall gross margin of 58%.

Perovskite photovoltaic additives are a high-purity functional materials market that has emerged alongside the industrialization of perovskite solar cells. Current demand mainly comes from universities, research institutions, photovoltaic company R&D lines, pilot lines, and a few demonstration production lines. Purchased varieties include MACl, PEAI, BAI, guanidine salts, ionic liquids, SAM molecules, and charge transport layer dopants, with mainstream orders characterized by small batches, high purity, and multiple types.

Growth is driven by the advancement of perovskite modules and tandem cells from laboratory scale to GW-level production. In 2025, Chinese companies have already constructed or started production on 1 GW-level perovskite module lines.

Perovskite/silicon tandem cells are also seen as a key approach to surpass the efficiency limits of crystalline silicon. Additives play roles in crystallization control, defect passivation, interfacial modification, and stability enhancement, directly impacting

efficiency, lifetime, and yield.

The perovskite photovoltaic additive market is projected to grow at a CAGR of 34.8% from 2026 to 2032. In the short term, the market will not scale linearly with module capacity planning, due to uncertainties in actual shipments, lifetime validation, and yield ramp-up. In the medium to long term, as perovskite modules, flexible photovoltaics, and perovskite/silicon tandem cells enter mass production, additives will shift from research reagents to process materials. Products require high purity, low moisture, minimal metal impurities, batch consistency, and strong customer validation.

LP Information, Inc. (LPI) ' newest research report, the "Perovskite Photovoltaic Additives Industry Forecast" looks at past sales and reviews total world Perovskite Photovoltaic Additives sales in 2025, providing a comprehensive analysis by region and market sector of projected Perovskite Photovoltaic Additives sales for 2026 through 2032. With Perovskite Photovoltaic Additives sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world Perovskite Photovoltaic Additives industry.

This Insight Report provides a comprehensive analysis of the global Perovskite Photovoltaic Additives landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyzes the strategies of leading global companies with a focus on Perovskite Photovoltaic Additives portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Perovskite Photovoltaic Additives market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Perovskite Photovoltaic Additives and breaks down the forecast by Type, by Application, geography, and market size to highlight emerging pockets of opportunity. With a transparent methodology based on hundreds of bottom-up qualitative and quantitative market inputs, this study forecast offers a highly nuanced view of the current state and future trajectory in the global Perovskite Photovoltaic Additives.

This report presents a comprehensive overview, market shares, and growth opportunities of Perovskite Photovoltaic Additives market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

Film Formation Additives

Passivation Additives

Interface Additives

Stability Additives

Transport Additives

Other Additives

Segmentation by Supply Form:

Powder Solid

Crystal Solid

Solution

Dispersion

Other Forms

Segmentation by Chemical Type:

Ammonium Salts

Guanidinium Salts

Alkali Salts

Pseudo-Halide Salts

Ionic Liquids

Lewis Bases

Polymer Additives

Others

Segmentation by Application:

PSCs

Perovskite Modules

Perovskite Inks

Interface Materials

Others

This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

APAC

China

Japan

Korea

Southeast Asia

India

Australia

Europe

Germany

France

UK

Italy

Russia

Middle East & Africa

Egypt

South Africa

Israel

Turkey

GCC Countries

The below companies that are profiled have been selected based on inputs gathered from primary experts and analysing the company's coverage, product portfolio, its market penetration.

Greatcell Solar Materials

Dyename

Ossila

Borun New Material

Lumtec

Xi'an p-OLED

TCI

FUJIFILM Wako

Merck

American Elements

Solaronix

Avantama

Solaveni

Loba Chemie

Thermo Scientific Chemicals

MSE Supplies

Key Questions Addressed in this Report

What is the 10-year outlook for the global Perovskite Photovoltaic Additives market?

What factors are driving Perovskite Photovoltaic Additives market growth, globally and by region?

Which technologies are poised for the fastest growth by market and region?

How do Perovskite Photovoltaic Additives market opportunities vary by end market size?

How does Perovskite Photovoltaic Additives break out by Type, by Application?

Contents

1 SCOPE OF THE REPORT

- 1.1 Market Introduction
- 1.2 Years Considered
- 1.3 Research Objectives
- 1.4 Market Research Methodology
- 1.5 Research Process and Data Source
- 1.6 Economic Indicators
- 1.7 Currency Considered
- 1.8 Market Estimation Caveats

2 EXECUTIVE SUMMARY

- 2.1 World Market Overview
 - 2.1.1 Global Perovskite Photovoltaic Additives Annual Sales 2021-2032
 - 2.1.2 World Current & Future Analysis for Perovskite Photovoltaic Additives by Geographic Region, 2021, 2025 & 2032
 - 2.1.3 World Current & Future Analysis for Perovskite Photovoltaic Additives by Country/Region, 2021, 2025 & 2032
- 2.2 Perovskite Photovoltaic Additives Segment by Type
 - 2.2.1 Film Formation Additives
 - 2.2.2 Passivation Additives
 - 2.2.3 Interface Additives
 - 2.2.4 Stability Additives
 - 2.2.5 Transport Additives
 - 2.2.6 Other Additives
 - 2.2.7 Perovskite Photovoltaic Additives Sales by Type
 - 2.2.7.1 Global Perovskite Photovoltaic Additives Sales Market Share by Type (2021-2026)
 - 2.2.7.2 Global Perovskite Photovoltaic Additives Revenue and Market Share by Type (2021-2026)
 - 2.2.7.3 Global Perovskite Photovoltaic Additives Sale Price by Type (2021-2026)
- 2.3 Perovskite Photovoltaic Additives Segment by Supply Form
 - 2.3.1 Powder Solid
 - 2.3.2 Crystal Solid
 - 2.3.3 Solution
 - 2.3.4 Dispersion

2.3.5 Other Forms

2.3.6 Perovskite Photovoltaic Additives Sales by Supply Form

2.3.6.1 Global Perovskite Photovoltaic Additives Sales Market Share by Supply Form (2021-2026)

2.3.6.2 Global Perovskite Photovoltaic Additives Revenue and Market Share by Supply Form (2021-2026)

2.3.6.3 Global Perovskite Photovoltaic Additives Sale Price by Supply Form (2021-2026)

2.4 Perovskite Photovoltaic Additives Segment by Chemical Type

2.4.1 Ammonium Salts

2.4.2 Guanidinium Salts

2.4.3 Alkali Salts

2.4.4 Pseudo-Halide Salts

2.4.5 Ionic Liquids

2.4.6 Lewis Bases

2.4.7 Polymer Additives

2.4.8 Others

2.4.9 Perovskite Photovoltaic Additives Sales by Chemical Type

2.4.9.1 Global Perovskite Photovoltaic Additives Sales Market Share by Chemical Type (2021-2026)

2.4.9.2 Global Perovskite Photovoltaic Additives Revenue and Market Share by Chemical Type (2021-2026)

2.4.9.3 Global Perovskite Photovoltaic Additives Sale Price by Chemical Type (2021-2026)

2.5 Perovskite Photovoltaic Additives Segment by Application

2.5.1 PSCs

2.5.2 Perovskite Modules

2.5.3 Perovskite Inks

2.5.4 Interface Materials

2.5.5 Others

2.5.6 Perovskite Photovoltaic Additives Sales by Application

2.5.6.1 Global Perovskite Photovoltaic Additives Sale Market Share by Application (2021-2026)

2.5.6.2 Global Perovskite Photovoltaic Additives Revenue and Market Share by Application (2021-2026)

2.5.6.3 Global Perovskite Photovoltaic Additives Sale Price by Application (2021-2026)

3 GLOBAL BY COMPANY

- 3.1 Global Perovskite Photovoltaic Additives Breakdown Data by Company
 - 3.1.1 Global Perovskite Photovoltaic Additives Annual Sales by Company (2021-2026)
 - 3.1.2 Global Perovskite Photovoltaic Additives Sales Market Share by Company (2021-2026)
- 3.2 Global Perovskite Photovoltaic Additives Annual Revenue by Company (2021-2026)
 - 3.2.1 Global Perovskite Photovoltaic Additives Revenue by Company (2021-2026)
 - 3.2.2 Global Perovskite Photovoltaic Additives Revenue Market Share by Company (2021-2026)
- 3.3 Global Perovskite Photovoltaic Additives Sale Price by Company
- 3.4 Key Manufacturers Perovskite Photovoltaic Additives Producing Area Distribution, Sales Area, Product Type
 - 3.4.1 Key Manufacturers Perovskite Photovoltaic Additives Product Location Distribution
 - 3.4.2 Players Perovskite Photovoltaic Additives Products Offered
- 3.5 Market Concentration Rate Analysis
 - 3.5.1 Competition Landscape Analysis
 - 3.5.2 Concentration Ratio (CR3, CR5 and CR10) & (2024-2026)
- 3.6 New Products and Potential Entrants
- 3.7 Market M&A Activity & Strategy

4 WORLD HISTORIC REVIEW FOR PEROVSKITE PHOTOVOLTAIC ADDITIVES BY GEOGRAPHIC REGION

- 4.1 World Historic Perovskite Photovoltaic Additives Market Size by Geographic Region (2021-2026)
 - 4.1.1 Global Perovskite Photovoltaic Additives Annual Sales by Geographic Region (2021-2026)
 - 4.1.2 Global Perovskite Photovoltaic Additives Annual Revenue by Geographic Region (2021-2026)
- 4.2 World Historic Perovskite Photovoltaic Additives Market Size by Country/Region (2021-2026)
 - 4.2.1 Global Perovskite Photovoltaic Additives Annual Sales by Country/Region (2021-2026)
 - 4.2.2 Global Perovskite Photovoltaic Additives Annual Revenue by Country/Region (2021-2026)
- 4.3 Americas Perovskite Photovoltaic Additives Sales Growth
- 4.4 APAC Perovskite Photovoltaic Additives Sales Growth
- 4.5 Europe Perovskite Photovoltaic Additives Sales Growth

4.6 Middle East & Africa Perovskite Photovoltaic Additives Sales Growth

5 AMERICAS

5.1 Americas Perovskite Photovoltaic Additives Sales by Country

5.1.1 Americas Perovskite Photovoltaic Additives Sales by Country (2021-2026)

5.1.2 Americas Perovskite Photovoltaic Additives Revenue by Country (2021-2026)

5.2 Americas Perovskite Photovoltaic Additives Sales by Type (2021-2026)

5.3 Americas Perovskite Photovoltaic Additives Sales by Application (2021-2026)

5.4 United States

5.5 Canada

5.6 Mexico

5.7 Brazil

6 APAC

6.1 APAC Perovskite Photovoltaic Additives Sales by Region

6.1.1 APAC Perovskite Photovoltaic Additives Sales by Region (2021-2026)

6.1.2 APAC Perovskite Photovoltaic Additives Revenue by Region (2021-2026)

6.2 APAC Perovskite Photovoltaic Additives Sales by Type (2021-2026)

6.3 APAC Perovskite Photovoltaic Additives Sales by Application (2021-2026)

6.4 China

6.5 Japan

6.6 South Korea

6.7 Southeast Asia

6.8 India

6.9 Australia

6.10 China Taiwan

7 EUROPE

7.1 Europe Perovskite Photovoltaic Additives by Country

7.1.1 Europe Perovskite Photovoltaic Additives Sales by Country (2021-2026)

7.1.2 Europe Perovskite Photovoltaic Additives Revenue by Country (2021-2026)

7.2 Europe Perovskite Photovoltaic Additives Sales by Type (2021-2026)

7.3 Europe Perovskite Photovoltaic Additives Sales by Application (2021-2026)

7.4 Germany

7.5 France

7.6 UK

7.7 Italy

7.8 Russia

8 MIDDLE EAST & AFRICA

8.1 Middle East & Africa Perovskite Photovoltaic Additives by Country

8.1.1 Middle East & Africa Perovskite Photovoltaic Additives Sales by Country
(2021-2026)

8.1.2 Middle East & Africa Perovskite Photovoltaic Additives Revenue by Country
(2021-2026)

8.2 Middle East & Africa Perovskite Photovoltaic Additives Sales by Type (2021-2026)

8.3 Middle East & Africa Perovskite Photovoltaic Additives Sales by Application
(2021-2026)

8.4 Egypt

8.5 South Africa

8.6 Israel

8.7 Turkey

8.8 GCC Countries

9 MARKET DRIVERS, CHALLENGES AND TRENDS

9.1 Market Drivers & Growth Opportunities

9.2 Market Challenges & Risks

9.3 Industry Trends

10 MANUFACTURING COST STRUCTURE ANALYSIS

10.1 Raw Material and Suppliers

10.2 Manufacturing Cost Structure Analysis of Perovskite Photovoltaic Additives

10.3 Manufacturing Process Analysis of Perovskite Photovoltaic Additives

10.4 Industry Chain Structure of Perovskite Photovoltaic Additives

11 MARKETING, DISTRIBUTORS AND CUSTOMER

11.1 Sales Channel

11.1.1 Direct Channels

11.1.2 Indirect Channels

11.2 Perovskite Photovoltaic Additives Distributors

11.3 Perovskite Photovoltaic Additives Customer

12 WORLD FORECAST REVIEW FOR PEROVSKITE PHOTOVOLTAIC ADDITIVES BY GEOGRAPHIC REGION

12.1 Global Perovskite Photovoltaic Additives Market Size Forecast by Region

12.1.1 Global Perovskite Photovoltaic Additives Forecast by Region (2027-2032)

12.1.2 Global Perovskite Photovoltaic Additives Annual Revenue Forecast by Region (2027-2032)

12.2 Americas Forecast by Country (2027-2032)

12.3 APAC Forecast by Region (2027-2032)

12.4 Europe Forecast by Country (2027-2032)

12.5 Middle East & Africa Forecast by Country (2027-2032)

12.6 Global Perovskite Photovoltaic Additives Forecast by Type (2027-2032)

12.7 Global Perovskite Photovoltaic Additives Forecast by Application (2027-2032)

13 KEY PLAYERS ANALYSIS

13.1 Greatcell Solar Materials

13.1.1 Greatcell Solar Materials Company Information

13.1.2 Greatcell Solar Materials Perovskite Photovoltaic Additives Product Portfolios and Specifications

13.1.3 Greatcell Solar Materials Perovskite Photovoltaic Additives Sales, Revenue, Price and Gross Margin (2021-2026)

13.1.4 Greatcell Solar Materials Main Business Overview

13.1.5 Greatcell Solar Materials Latest Developments

13.2 Dyenamo

13.2.1 Dyenamo Company Information

13.2.2 Dyenamo Perovskite Photovoltaic Additives Product Portfolios and Specifications

13.2.3 Dyenamo Perovskite Photovoltaic Additives Sales, Revenue, Price and Gross Margin (2021-2026)

13.2.4 Dyenamo Main Business Overview

13.2.5 Dyenamo Latest Developments

13.3 Ossila

13.3.1 Ossila Company Information

13.3.2 Ossila Perovskite Photovoltaic Additives Product Portfolios and Specifications

13.3.3 Ossila Perovskite Photovoltaic Additives Sales, Revenue, Price and Gross Margin (2021-2026)

13.3.4 Ossila Main Business Overview

- 13.3.5 Ossila Latest Developments
- 13.4 Borun New Material
 - 13.4.1 Borun New Material Company Information
 - 13.4.2 Borun New Material Perovskite Photovoltaic Additives Product Portfolios and Specifications
 - 13.4.3 Borun New Material Perovskite Photovoltaic Additives Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.4.4 Borun New Material Main Business Overview
 - 13.4.5 Borun New Material Latest Developments
- 13.5 Lumtec
 - 13.5.1 Lumtec Company Information
 - 13.5.2 Lumtec Perovskite Photovoltaic Additives Product Portfolios and Specifications
 - 13.5.3 Lumtec Perovskite Photovoltaic Additives Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.5.4 Lumtec Main Business Overview
 - 13.5.5 Lumtec Latest Developments
- 13.6 Xi'an p-OLED
 - 13.6.1 Xi'an p-OLED Company Information
 - 13.6.2 Xi'an p-OLED Perovskite Photovoltaic Additives Product Portfolios and Specifications
 - 13.6.3 Xi'an p-OLED Perovskite Photovoltaic Additives Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.6.4 Xi'an p-OLED Main Business Overview
 - 13.6.5 Xi'an p-OLED Latest Developments
- 13.7 TCI
 - 13.7.1 TCI Company Information
 - 13.7.2 TCI Perovskite Photovoltaic Additives Product Portfolios and Specifications
 - 13.7.3 TCI Perovskite Photovoltaic Additives Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.7.4 TCI Main Business Overview
 - 13.7.5 TCI Latest Developments
- 13.8 FUJIFILM Wako
 - 13.8.1 FUJIFILM Wako Company Information
 - 13.8.2 FUJIFILM Wako Perovskite Photovoltaic Additives Product Portfolios and Specifications
 - 13.8.3 FUJIFILM Wako Perovskite Photovoltaic Additives Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.8.4 FUJIFILM Wako Main Business Overview
 - 13.8.5 FUJIFILM Wako Latest Developments

13.9 Merck

13.9.1 Merck Company Information

13.9.2 Merck Perovskite Photovoltaic Additives Product Portfolios and Specifications

13.9.3 Merck Perovskite Photovoltaic Additives Sales, Revenue, Price and Gross Margin (2021-2026)

13.9.4 Merck Main Business Overview

13.9.5 Merck Latest Developments

13.10 American Elements

13.10.1 American Elements Company Information

13.10.2 American Elements Perovskite Photovoltaic Additives Product Portfolios and Specifications

13.10.3 American Elements Perovskite Photovoltaic Additives Sales, Revenue, Price and Gross Margin (2021-2026)

13.10.4 American Elements Main Business Overview

13.10.5 American Elements Latest Developments

13.11 Soloronix

13.11.1 Soloronix Company Information

13.11.2 Soloronix Perovskite Photovoltaic Additives Product Portfolios and Specifications

13.11.3 Soloronix Perovskite Photovoltaic Additives Sales, Revenue, Price and Gross Margin (2021-2026)

13.11.4 Soloronix Main Business Overview

13.11.5 Soloronix Latest Developments

13.12 Avantama

13.12.1 Avantama Company Information

13.12.2 Avantama Perovskite Photovoltaic Additives Product Portfolios and Specifications

13.12.3 Avantama Perovskite Photovoltaic Additives Sales, Revenue, Price and Gross Margin (2021-2026)

13.12.4 Avantama Main Business Overview

13.12.5 Avantama Latest Developments

13.13 Solaveni

13.13.1 Solaveni Company Information

13.13.2 Solaveni Perovskite Photovoltaic Additives Product Portfolios and Specifications

13.13.3 Solaveni Perovskite Photovoltaic Additives Sales, Revenue, Price and Gross Margin (2021-2026)

13.13.4 Solaveni Main Business Overview

13.13.5 Solaveni Latest Developments

13.14 Loba Chemie

13.14.1 Loba Chemie Company Information

13.14.2 Loba Chemie Perovskite Photovoltaic Additives Product Portfolios and Specifications

13.14.3 Loba Chemie Perovskite Photovoltaic Additives Sales, Revenue, Price and Gross Margin (2021-2026)

13.14.4 Loba Chemie Main Business Overview

13.14.5 Loba Chemie Latest Developments

13.15 Thermo Scientific Chemicals

13.15.1 Thermo Scientific Chemicals Company Information

13.15.2 Thermo Scientific Chemicals Perovskite Photovoltaic Additives Product Portfolios and Specifications

13.15.3 Thermo Scientific Chemicals Perovskite Photovoltaic Additives Sales, Revenue, Price and Gross Margin (2021-2026)

13.15.4 Thermo Scientific Chemicals Main Business Overview

13.15.5 Thermo Scientific Chemicals Latest Developments

13.16 MSE Supplies

13.16.1 MSE Supplies Company Information

13.16.2 MSE Supplies Perovskite Photovoltaic Additives Product Portfolios and Specifications

13.16.3 MSE Supplies Perovskite Photovoltaic Additives Sales, Revenue, Price and Gross Margin (2021-2026)

13.16.4 MSE Supplies Main Business Overview

13.16.5 MSE Supplies Latest Developments

14 RESEARCH FINDINGS AND CONCLUSION

List Of Tables

LIST OF TABLES

Table 1. Perovskite Photovoltaic Additives Annual Sales CAGR by Geographic Region (2021, 2025 & 2032) & (\$ millions)

Table 2. Perovskite Photovoltaic Additives Annual Sales CAGR by Country/Region (2021, 2025 & 2032) & (\$ millions)

Table 3. Major Players of Film Formation Additives

Table 4. Major Players of Passivation Additives

Table 5. Major Players of Interface Additives

Table 6. Major Players of Stability Additives

Table 7. Major Players of Transport Additives

Table 8. Major Players of Other Additives

Table 9. Global Perovskite Photovoltaic Additives Sales by Type (2021-2026) & (kg)

Table 10. Global Perovskite Photovoltaic Additives Sales Market Share by Type (2021-2026)

Table 11. Global Perovskite Photovoltaic Additives Revenue by Type (2021-2026) & (\$ million)

Table 12. Global Perovskite Photovoltaic Additives Revenue Market Share by Type (2021-2026)

Table 13. Global Perovskite Photovoltaic Additives Sale Price by Type (2021-2026) & (US\$/kg)

Table 14. Major Players of Powder Solid

Table 15. Major Players of Crystal Solid

Table 16. Major Players of Solution

Table 17. Major Players of Dispersion

Table 18. Major Players of Other Forms

Table 19. Global Perovskite Photovoltaic Additives Sales by Supply Form (2021-2026) & (kg)

Table 20. Global Perovskite Photovoltaic Additives Sales Market Share by Supply Form (2021-2026)

Table 21. Global Perovskite Photovoltaic Additives Revenue by Supply Form (2021-2026) & (\$ million)

Table 22. Global Perovskite Photovoltaic Additives Revenue Market Share by Supply Form (2021-2026)

Table 23. Global Perovskite Photovoltaic Additives Sale Price by Supply Form (2021-2026) & (US\$/kg)

Table 24. Major Players of Ammonium Salts

Table 25. Major Players of Guanidinium Salts

Table 26. Major Players of Alkali Salts

Table 27. Major Players of Pseudo-Halide Salts

Table 28. Major Players of Ionic Liquids

Table 29. Major Players of Lewis Bases

Table 30. Major Players of Polymer Additives

Table 31. Major Players of Others

Table 32. Global Perovskite Photovoltaic Additives Sales by Chemical Type
(2021-2026) & (kg)

Table 33. Global Perovskite Photovoltaic Additives Sales Market Share by Chemical
Type (2021-2026)

Table 34. Global Perovskite Photovoltaic Additives Revenue by Chemical Type
(2021-2026) & (\$ million)

Table 35. Global Perovskite Photovoltaic Additives Revenue Market Share by Chemical
Type (2021-2026)

Table 36. Global Perovskite Photovoltaic Additives Sale Price by Chemical Type
(2021-2026) & (US\$/kg)

Table 37. Global Perovskite Photovoltaic Additives Sale by Application (2021-2026) &
(kg)

Table 38. Global Perovskite Photovoltaic Additives Sale Market Share by Application
(2021-2026)

Table 39. Global Perovskite Photovoltaic Additives Revenue by Application (2021-2026)
& (\$ million)

Table 40. Global Perovskite Photovoltaic Additives Revenue Market Share by
Application (2021-2026)

Table 41. Global Perovskite Photovoltaic Additives Sale Price by Application
(2021-2026) & (US\$/kg)

Table 42. Global Perovskite Photovoltaic Additives Sales by Company (2021-2026) &
(kg)

Table 43. Global Perovskite Photovoltaic Additives Sales Market Share by Company
(2021-2026)

Table 44. Global Perovskite Photovoltaic Additives Revenue by Company (2021-2026)
& (\$ millions)

Table 45. Global Perovskite Photovoltaic Additives Revenue Market Share by Company
(2021-2026)

Table 46. Global Perovskite Photovoltaic Additives Sale Price by Company (2021-2026)
& (US\$/kg)

Table 47. Key Manufacturers Perovskite Photovoltaic Additives Producing Area
Distribution and Sales Area

Table 48. Players Perovskite Photovoltaic Additives Products Offered
Table 49. Perovskite Photovoltaic Additives Concentration Ratio (CR3, CR5 and CR10) & (2024-2026)
Table 50. New Products and Potential Entrants
Table 51. Market M&A Activity & Strategy
Table 52. Global Perovskite Photovoltaic Additives Sales by Geographic Region (2021-2026) & (kg)
Table 53. Global Perovskite Photovoltaic Additives Sales Market Share Geographic Region (2021-2026)
Table 54. Global Perovskite Photovoltaic Additives Revenue by Geographic Region (2021-2026) & (\$ millions)
Table 55. Global Perovskite Photovoltaic Additives Revenue Market Share by Geographic Region (2021-2026)
Table 56. Global Perovskite Photovoltaic Additives Sales by Country/Region (2021-2026) & (kg)
Table 57. Global Perovskite Photovoltaic Additives Sales Market Share by Country/Region (2021-2026)
Table 58. Global Perovskite Photovoltaic Additives Revenue by Country/Region (2021-2026) & (\$ millions)
Table 59. Global Perovskite Photovoltaic Additives Revenue Market Share by Country/Region (2021-2026)
Table 60. Americas Perovskite Photovoltaic Additives Sales by Country (2021-2026) & (kg)
Table 61. Americas Perovskite Photovoltaic Additives Sales Market Share by Country (2021-2026)
Table 62. Americas Perovskite Photovoltaic Additives Revenue by Country (2021-2026) & (\$ millions)
Table 63. Americas Perovskite Photovoltaic Additives Sales by Type (2021-2026) & (kg)
Table 64. Americas Perovskite Photovoltaic Additives Sales by Application (2021-2026) & (kg)
Table 65. APAC Perovskite Photovoltaic Additives Sales by Region (2021-2026) & (kg)
Table 66. APAC Perovskite Photovoltaic Additives Sales Market Share by Region (2021-2026)
Table 67. APAC Perovskite Photovoltaic Additives Revenue by Region (2021-2026) & (\$ millions)
Table 68. APAC Perovskite Photovoltaic Additives Sales by Type (2021-2026) & (kg)
Table 69. APAC Perovskite Photovoltaic Additives Sales by Application (2021-2026) & (kg)
Table 70. Europe Perovskite Photovoltaic Additives Sales by Country (2021-2026) &

(kg)

Table 71. Europe Perovskite Photovoltaic Additives Revenue by Country (2021-2026) & (\$ millions)

Table 72. Europe Perovskite Photovoltaic Additives Sales by Type (2021-2026) & (kg)

Table 73. Europe Perovskite Photovoltaic Additives Sales by Application (2021-2026) & (kg)

Table 74. Middle East & Africa Perovskite Photovoltaic Additives Sales by Country (2021-2026) & (kg)

Table 75. Middle East & Africa Perovskite Photovoltaic Additives Revenue Market Share by Country (2021-2026)

Table 76. Middle East & Africa Perovskite Photovoltaic Additives Sales by Type (2021-2026) & (kg)

Table 77. Middle East & Africa Perovskite Photovoltaic Additives Sales by Application (2021-2026) & (kg)

Table 78. Key Market Drivers & Growth Opportunities of Perovskite Photovoltaic Additives

Table 79. Key Market Challenges & Risks of Perovskite Photovoltaic Additives

Table 80. Key Industry Trends of Perovskite Photovoltaic Additives

Table 81. Perovskite Photovoltaic Additives Raw Material

Table 82. Key Suppliers of Raw Materials

Table 83. Perovskite Photovoltaic Additives Distributors List

Table 84. Perovskite Photovoltaic Additives Customer List

Table 85. Global Perovskite Photovoltaic Additives Sales Forecast by Region (2027-2032) & (kg)

Table 86. Global Perovskite Photovoltaic Additives Revenue Forecast by Region (2027-2032) & (\$ millions)

Table 87. Americas Perovskite Photovoltaic Additives Sales Forecast by Country (2027-2032) & (kg)

Table 88. Americas Perovskite Photovoltaic Additives Annual Revenue Forecast by Country (2027-2032) & (\$ millions)

Table 89. APAC Perovskite Photovoltaic Additives Sales Forecast by Region (2027-2032) & (kg)

Table 90. APAC Perovskite Photovoltaic Additives Annual Revenue Forecast by Region (2027-2032) & (\$ millions)

Table 91. Europe Perovskite Photovoltaic Additives Sales Forecast by Country (2027-2032) & (kg)

Table 92. Europe Perovskite Photovoltaic Additives Revenue Forecast by Country (2027-2032) & (\$ millions)

Table 93. Middle East & Africa Perovskite Photovoltaic Additives Sales Forecast by

Country (2027-2032) & (kg)

Table 94. Middle East & Africa Perovskite Photovoltaic Additives Revenue Forecast by Country (2027-2032) & (\$ millions)

Table 95. Global Perovskite Photovoltaic Additives Sales Forecast by Type (2027-2032) & (kg)

Table 96. Global Perovskite Photovoltaic Additives Revenue Forecast by Type (2027-2032) & (\$ millions)

Table 97. Global Perovskite Photovoltaic Additives Sales Forecast by Application (2027-2032) & (kg)

Table 98. Global Perovskite Photovoltaic Additives Revenue Forecast by Application (2027-2032) & (\$ millions)

Table 99. Greatcell Solar Materials Basic Information, Perovskite Photovoltaic Additives Manufacturing Base, Sales Area and Its Competitors

Table 100. Greatcell Solar Materials Perovskite Photovoltaic Additives Product Portfolios and Specifications

Table 101. Greatcell Solar Materials Perovskite Photovoltaic Additives Sales (kg), Revenue (\$ Million), Price (US\$/kg) and Gross Margin (2021-2026)

Table 102. Greatcell Solar Materials Main Business

Table 103. Greatcell Solar Materials Latest Developments

Table 104. Dyenamo Basic Information, Perovskite Photovoltaic Additives Manufacturing Base, Sales Area and Its Competitors

Table 105. Dyenamo Perovskite Photovoltaic Additives Product Portfolios and Specifications

Table 106. Dyenamo Perovskite Photovoltaic Additives Sales (kg), Revenue (\$ Million), Price (US\$/kg) and Gross Margin (2021-2026)

Table 107. Dyenamo Main Business

Table 108. Dyenamo Latest Developments

Table 109. Ossila Basic Information, Perovskite Photovoltaic Additives Manufacturing Base, Sales Area and Its Competitors

Table 110. Ossila Perovskite Photovoltaic Additives Product Portfolios and Specifications

Table 111. Ossila Perovskite Photovoltaic Additives Sales (kg), Revenue (\$ Million), Price (US\$/kg) and Gross Margin (2021-2026)

Table 112. Ossila Main Business

Table 113. Ossila Latest Developments

Table 114. Borun New Material Basic Information, Perovskite Photovoltaic Additives Manufacturing Base, Sales Area and Its Competitors

Table 115. Borun New Material Perovskite Photovoltaic Additives Product Portfolios and Specifications

Table 116. Borun New Material Perovskite Photovoltaic Additives Sales (kg), Revenue (\$ Million), Price (US\$/kg) and Gross Margin (2021-2026)

Table 117. Borun New Material Main Business

Table 118. Borun New Material Latest Developments

Table 119. Lumtec Basic Information, Perovskite Photovoltaic Additives Manufacturing Base, Sales Area and Its Competitors

Table 120. Lumtec Perovskite Photovoltaic Additives Product Portfolios and Specifications

Table 121. Lumtec Perovskite Photovoltaic Additives Sales (kg), Revenue (\$ Million), Price (US\$/kg) and Gross Margin (2021-2026)

Table 122. Lumtec Main Business

Table 123. Lumtec Latest Developments

Table 124. Xi'an p-OLED Basic Information, Perovskite Photovoltaic Additives Manufacturing Base, Sales Area and Its Competitors

Table 125. Xi'an p-OLED Perovskite Photovoltaic Additives Product Portfolios and Specifications

Table 126. Xi'an p-OLED Perovskite Photovoltaic Additives Sales (kg), Revenue (\$ Million), Price (US\$/kg) and Gross Margin (2021-2026)

Table 127. Xi'an p-OLED Main Business

Table 128. Xi'an p-OLED Latest Developments

Table 129. TCI Basic Information, Perovskite Photovoltaic Additives Manufacturing Base, Sales Area and Its Competitors

Table 130. TCI Perovskite Photovoltaic Additives Product Portfolios and Specifications

Table 131. TCI Perovskite Photovoltaic Additives Sales (kg), Revenue (\$ Million), Price (US\$/kg) and Gross Margin (2021-2026)

Table 132. TCI Main Business

Table 133. TCI Latest Developments

Table 134. FUJIFILM Wako Basic Information, Perovskite Photovoltaic Additives Manufacturing Base, Sales Area and Its Competitors

Table 135. FUJIFILM Wako Perovskite Photovoltaic Additives Product Portfolios and Specifications

Table 136. FUJIFILM Wako Perovskite Photovoltaic Additives Sales (kg), Revenue (\$ Million), Price (US\$/kg) and Gross Margin (2021-2026)

Table 137. FUJIFILM Wako Main Business

Table 138. FUJIFILM Wako Latest Developments

Table 139. Merck Basic Information, Perovskite Photovoltaic Additives Manufacturing Base, Sales Area and Its Competitors

Table 140. Merck Perovskite Photovoltaic Additives Product Portfolios and Specifications

Table 141. Merck Perovskite Photovoltaic Additives Sales (kg), Revenue (\$ Million), Price (US\$/kg) and Gross Margin (2021-2026)

Table 142. Merck Main Business

Table 143. Merck Latest Developments

Table 144. American Elements Basic Information, Perovskite Photovoltaic Additives Manufacturing Base, Sales Area and Its Competitors

Table 145. American Elements Perovskite Photovoltaic Additives Product Portfolios and Specifications

Table 146. American Elements Perovskite Photovoltaic Additives Sales (kg), Revenue (\$ Million), Price (US\$/kg) and Gross Margin (2021-2026)

Table 147. American Elements Main Business

Table 148. American Elements Latest Developments

Table 149. Solaronix Basic Information, Perovskite Photovoltaic Additives Manufacturing Base, Sales Area and Its Competitors

Table 150. Solaronix Perovskite Photovoltaic Additives Product Portfolios and Specifications

Table 151. Solaronix Perovskite Photovoltaic Additives Sales (kg), Revenue (\$ Million), Price (US\$/kg) and Gross Margin (2021-2026)

Table 152. Solaronix Main Business

Table 153. Solaronix Latest Developments

Table 154. Avantama Basic Information, Perovskite Photovoltaic Additives Manufacturing Base, Sales Area and Its Competitors

Table 155. Avantama Perovskite Photovoltaic Additives Product Portfolios and Specifications

Table 156. Avantama Perovskite Photovoltaic Additives Sales (kg), Revenue (\$ Million), Price (US\$/kg) and Gross Margin (2021-2026)

Table 157. Avantama Main Business

Table 158. Avantama Latest Developments

Table 159. Solaveni Basic Information, Perovskite Photovoltaic Additives Manufacturing Base, Sales Area and Its Competitors

Table 160. Solaveni Perovskite Photovoltaic Additives Product Portfolios and Specifications

Table 161. Solaveni Perovskite Photovoltaic Additives Sales (kg), Revenue (\$ Million), Price (US\$/kg) and Gross Margin (2021-2026)

Table 162. Solaveni Main Business

Table 163. Solaveni Latest Developments

Table 164. Loba Chemie Basic Information, Perovskite Photovoltaic Additives Manufacturing Base, Sales Area and Its Competitors

Table 165. Loba Chemie Perovskite Photovoltaic Additives Product Portfolios and

Specifications

Table 166. Loba Chemie Perovskite Photovoltaic Additives Sales (kg), Revenue (\$ Million), Price (US\$/kg) and Gross Margin (2021-2026)

Table 167. Loba Chemie Main Business

Table 168. Loba Chemie Latest Developments

Table 169. Thermo Scientific Chemicals Basic Information, Perovskite Photovoltaic Additives Manufacturing Base, Sales Area and Its Competitors

Table 170. Thermo Scientific Chemicals Perovskite Photovoltaic Additives Product Portfolios and Specifications

Table 171. Thermo Scientific Chemicals Perovskite Photovoltaic Additives Sales (kg), Revenue (\$ Million), Price (US\$/kg) and Gross Margin (2021-2026)

Table 172. Thermo Scientific Chemicals Main Business

Table 173. Thermo Scientific Chemicals Latest Developments

Table 174. MSE Supplies Basic Information, Perovskite Photovoltaic Additives Manufacturing Base, Sales Area and Its Competitors

Table 175. MSE Supplies Perovskite Photovoltaic Additives Product Portfolios and Specifications

Table 176. MSE Supplies Perovskite Photovoltaic Additives Sales (kg), Revenue (\$ Million), Price (US\$/kg) and Gross Margin (2021-2026)

Table 177. MSE Supplies Main Business

Table 178. MSE Supplies Latest Developments

List Of Figures

LIST OF FIGURES

- Figure 1. Picture of Perovskite Photovoltaic Additives
- Figure 2. Perovskite Photovoltaic Additives Report Years Considered
- Figure 3. Research Objectives
- Figure 4. Research Methodology
- Figure 5. Research Process and Data Source
- Figure 6. Global Perovskite Photovoltaic Additives Sales Growth Rate 2021-2032 (kg)
- Figure 7. Global Perovskite Photovoltaic Additives Revenue Growth Rate 2021-2032 (\$ millions)
- Figure 8. Perovskite Photovoltaic Additives Sales by Geographic Region (2021, 2025 & 2032) & (\$ millions)
- Figure 9. Perovskite Photovoltaic Additives Sales Market Share by Country/Region (2025)
- Figure 10. Perovskite Photovoltaic Additives Sales Market Share by Country/Region (2021, 2025 & 2032)
- Figure 11. Product Picture of Film Formation Additives
- Figure 12. Product Picture of Passivation Additives
- Figure 13. Product Picture of Interface Additives
- Figure 14. Product Picture of Stability Additives
- Figure 15. Product Picture of Transport Additives
- Figure 16. Product Picture of Other Additives
- Figure 17. Global Perovskite Photovoltaic Additives Sales Market Share by Type in 2026
- Figure 18. Global Perovskite Photovoltaic Additives Revenue Market Share by Type (2021-2026)
- Figure 19. Product Picture of Powder Solid
- Figure 20. Product Picture of Crystal Solid
- Figure 21. Product Picture of Solution
- Figure 22. Product Picture of Dispersion
- Figure 23. Product Picture of Other Forms
- Figure 24. Global Perovskite Photovoltaic Additives Sales Market Share by Supply Form in 2026
- Figure 25. Global Perovskite Photovoltaic Additives Revenue Market Share by Supply Form (2021-2026)
- Figure 26. Product Picture of Ammonium Salts
- Figure 27. Product Picture of Guanidinium Salts

Figure 28. Product Picture of Alkali Salts

Figure 29. Product Picture of Pseudo-Halide Salts

Figure 30. Product Picture of Ionic Liquids

Figure 31. Product Picture of Lewis Bases

Figure 32. Product Picture of Polymer Additives

Figure 33. Product Picture of Others

Figure 34. Global Perovskite Photovoltaic Additives Sales Market Share by Chemical Type in 2026

Figure 35. Global Perovskite Photovoltaic Additives Revenue Market Share by Chemical Type (2021-2026)

Figure 36. Perovskite Photovoltaic Additives Consumed in PSCs

Figure 37. Global Perovskite Photovoltaic Additives Market: PSCs (2021-2026) & (kg)

Figure 38. Perovskite Photovoltaic Additives Consumed in Perovskite Modules

Figure 39. Global Perovskite Photovoltaic Additives Market: Perovskite Modules (2021-2026) & (kg)

Figure 40. Perovskite Photovoltaic Additives Consumed in Perovskite Inks

Figure 41. Global Perovskite Photovoltaic Additives Market: Perovskite Inks (2021-2026) & (kg)

Figure 42. Perovskite Photovoltaic Additives Consumed in Interface Materials

Figure 43. Global Perovskite Photovoltaic Additives Market: Interface Materials (2021-2026) & (kg)

Figure 44. Perovskite Photovoltaic Additives Consumed in Others

Figure 45. Global Perovskite Photovoltaic Additives Market: Others (2021-2026) & (kg)

Figure 46. Global Perovskite Photovoltaic Additives Sale Market Share by Application (2025)

Figure 47. Global Perovskite Photovoltaic Additives Revenue Market Share by Application in 2025

Figure 48. Perovskite Photovoltaic Additives Sales by Company in 2025 (kg)

Figure 49. Global Perovskite Photovoltaic Additives Sales Market Share by Company in 2025

Figure 50. Perovskite Photovoltaic Additives Revenue by Company in 2025 (\$ millions)

Figure 51. Global Perovskite Photovoltaic Additives Revenue Market Share by Company in 2025

Figure 52. Global Perovskite Photovoltaic Additives Sales Market Share by Geographic Region (2021-2026)

Figure 53. Global Perovskite Photovoltaic Additives Revenue Market Share by Geographic Region in 2025

Figure 54. Americas Perovskite Photovoltaic Additives Sales 2021-2026 (kg)

Figure 55. Americas Perovskite Photovoltaic Additives Revenue 2021-2026 (\$ millions)

- Figure 56. APAC Perovskite Photovoltaic Additives Sales 2021-2026 (kg)
- Figure 57. APAC Perovskite Photovoltaic Additives Revenue 2021-2026 (\$ millions)
- Figure 58. Europe Perovskite Photovoltaic Additives Sales 2021-2026 (kg)
- Figure 59. Europe Perovskite Photovoltaic Additives Revenue 2021-2026 (\$ millions)
- Figure 60. Middle East & Africa Perovskite Photovoltaic Additives Sales 2021-2026 (kg)
- Figure 61. Middle East & Africa Perovskite Photovoltaic Additives Revenue 2021-2026 (\$ millions)
- Figure 62. Americas Perovskite Photovoltaic Additives Sales Market Share by Country in 2025
- Figure 63. Americas Perovskite Photovoltaic Additives Revenue Market Share by Country (2021-2026)
- Figure 64. Americas Perovskite Photovoltaic Additives Sales Market Share by Type (2021-2026)
- Figure 65. Americas Perovskite Photovoltaic Additives Sales Market Share by Application (2021-2026)
- Figure 66. United States Perovskite Photovoltaic Additives Revenue Growth 2021-2026 (\$ millions)
- Figure 67. Canada Perovskite Photovoltaic Additives Revenue Growth 2021-2026 (\$ millions)
- Figure 68. Mexico Perovskite Photovoltaic Additives Revenue Growth 2021-2026 (\$ millions)
- Figure 69. Brazil Perovskite Photovoltaic Additives Revenue Growth 2021-2026 (\$ millions)
- Figure 70. APAC Perovskite Photovoltaic Additives Sales Market Share by Region in 2025
- Figure 71. APAC Perovskite Photovoltaic Additives Revenue Market Share by Region (2021-2026)
- Figure 72. APAC Perovskite Photovoltaic Additives Sales Market Share by Type (2021-2026)
- Figure 73. APAC Perovskite Photovoltaic Additives Sales Market Share by Application (2021-2026)
- Figure 74. China Perovskite Photovoltaic Additives Revenue Growth 2021-2026 (\$ millions)
- Figure 75. Japan Perovskite Photovoltaic Additives Revenue Growth 2021-2026 (\$ millions)
- Figure 76. South Korea Perovskite Photovoltaic Additives Revenue Growth 2021-2026 (\$ millions)
- Figure 77. Southeast Asia Perovskite Photovoltaic Additives Revenue Growth 2021-2026 (\$ millions)

Figure 78. India Perovskite Photovoltaic Additives Revenue Growth 2021-2026 (\$ millions)

Figure 79. Australia Perovskite Photovoltaic Additives Revenue Growth 2021-2026 (\$ millions)

Figure 80. China Taiwan Perovskite Photovoltaic Additives Revenue Growth 2021-2026 (\$ millions)

Figure 81. Europe Perovskite Photovoltaic Additives Sales Market Share by Country in 2025

Figure 82. Europe Perovskite Photovoltaic Additives Revenue Market Share by Country (2021-2026)

Figure 83. Europe Perovskite Photovoltaic Additives Sales Market Share by Type (2021-2026)

Figure 84. Europe Perovskite Photovoltaic Additives Sales Market Share by Application (2021-2026)

Figure 85. Germany Perovskite Photovoltaic Additives Revenue Growth 2021-2026 (\$ millions)

Figure 86. France Perovskite Photovoltaic Additives Revenue Growth 2021-2026 (\$ millions)

Figure 87. UK Perovskite Photovoltaic Additives Revenue Growth 2021-2026 (\$ millions)

Figure 88. Italy Perovskite Photovoltaic Additives Revenue Growth 2021-2026 (\$ millions)

Figure 89. Russia Perovskite Photovoltaic Additives Revenue Growth 2021-2026 (\$ millions)

Figure 90. Middle East & Africa Perovskite Photovoltaic Additives Sales Market Share by Country (2021-2026)

Figure 91. Middle East & Africa Perovskite Photovoltaic Additives Sales Market Share by Type (2021-2026)

Figure 92. Middle East & Africa Perovskite Photovoltaic Additives Sales Market Share by Application (2021-2026)

Figure 93. Egypt Perovskite Photovoltaic Additives Revenue Growth 2021-2026 (\$ millions)

Figure 94. South Africa Perovskite Photovoltaic Additives Revenue Growth 2021-2026 (\$ millions)

Figure 95. Israel Perovskite Photovoltaic Additives Revenue Growth 2021-2026 (\$ millions)

Figure 96. Turkey Perovskite Photovoltaic Additives Revenue Growth 2021-2026 (\$ millions)

Figure 97. GCC Countries Perovskite Photovoltaic Additives Revenue Growth

2021-2026 (\$ millions)

Figure 98. Manufacturing Cost Structure Analysis of Perovskite Photovoltaic Additives in 2026

Figure 99. Manufacturing Process Analysis of Perovskite Photovoltaic Additives

Figure 100. Industry Chain Structure of Perovskite Photovoltaic Additives

Figure 101. Channels of Distribution

Figure 102. Global Perovskite Photovoltaic Additives Sales Market Forecast by Region (2027-2032)

Figure 103. Global Perovskite Photovoltaic Additives Revenue Market Share Forecast by Region (2027-2032)

Figure 104. Global Perovskite Photovoltaic Additives Sales Market Share Forecast by Type (2027-2032)

Figure 105. Global Perovskite Photovoltaic Additives Revenue Market Share Forecast by Type (2027-2032)

Figure 106. Global Perovskite Photovoltaic Additives Sales Market Share Forecast by Application (2027-2032)

Figure 107. Global Perovskite Photovoltaic Additives Revenue Market Share Forecast by Application (2027-2032)

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