

# Global Perovskite Photovoltaic Additives Supply, Demand and Key Producers, 2026-2032

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## Abstracts

The global Perovskite Photovoltaic Additives market size is expected to reach \$ 244 million by 2032, rising at a market growth of 34.0% CAGR during the forecast period (2026-2032).

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.

This report studies the global Perovskite Photovoltaic Additives production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Perovskite Photovoltaic Additives 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 Perovskite Photovoltaic Additives that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Perovskite Photovoltaic Additives total production and demand, 2021-2032, (kg)

Global Perovskite Photovoltaic Additives total production value, 2021-2032, (USD Million)

Global Perovskite Photovoltaic Additives production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (kg), (based on production site)

Global Perovskite Photovoltaic Additives consumption by region & country, CAGR, 2021-2032 & (kg)

U.S. VS China: Perovskite Photovoltaic Additives domestic production, consumption, key domestic manufacturers and share

Global Perovskite Photovoltaic Additives production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (kg)

Global Perovskite Photovoltaic Additives production by Type, production, value, CAGR, 2021-2032, (USD Million) & (kg)

Global Perovskite Photovoltaic Additives production by Application, production, value, CAGR, 2021-2032, (USD Million) & (kg)

This report profiles key players in the global Perovskite Photovoltaic Additives 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 Greatcell Solar Materials, Dyenamo, Ossila, Borun New Material, Lumtec, Xi'an p-OLED, TCI, FUJIFILM Wako, Merck, American Elements, 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 Perovskite Photovoltaic Additives market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (kg) and average price (US\$/kg) 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 Perovskite Photovoltaic Additives Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Perovskite Photovoltaic Additives Market, Segmentation by Type:

Film Formation Additives

Passivation Additives

Interface Additives

Stability Additives

Transport Additives

Other Additives

#### Global Perovskite Photovoltaic Additives Market, Segmentation by Supply Form:

Powder Solid

Crystal Solid

Solution

Dispersion

Other Forms

#### Global Perovskite Photovoltaic Additives Market, Segmentation by Chemical Type:

Ammonium Salts

Guanidinium Salts

Alkali Salts

Pseudo-Halide Salts

Ionic Liquids

Lewis Bases

Polymer Additives

Others

#### Global Perovskite Photovoltaic Additives Market, Segmentation by Application:

PSCs

Perovskite Modules

Perovskite Inks

Interface Materials

Others

#### Companies Profiled:

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 Answered:

1. How big is the global Perovskite Photovoltaic Additives market?
2. What is the demand of the global Perovskite Photovoltaic Additives market?
3. What is the year over year growth of the global Perovskite Photovoltaic Additives market?
4. What is the production and production value of the global Perovskite Photovoltaic Additives market?
5. Who are the key producers in the global Perovskite Photovoltaic Additives market?
6. What are the growth factors driving the market demand?

## Contents

### 1 SUPPLY SUMMARY

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

### 2 DEMAND SUMMARY

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

### **3 WORLD MANUFACTURERS COMPETITIVE ANALYSIS**

3.1 World Perovskite Photovoltaic Additives Production Value by Manufacturer (2021-2026)

3.2 World Perovskite Photovoltaic Additives Production by Manufacturer (2021-2026)

3.3 World Perovskite Photovoltaic Additives Average Price by Manufacturer (2021-2026)

3.4 Perovskite Photovoltaic Additives Company Evaluation Quadrant

3.5 Industry Rank and Concentration Rate (CR)

3.5.1 Global Perovskite Photovoltaic Additives Industry Rank of Major Manufacturers

3.5.2 Global Concentration Ratios (CR4) for Perovskite Photovoltaic Additives in 2025

3.5.3 Global Concentration Ratios (CR8) for Perovskite Photovoltaic Additives in 2025

3.6 Perovskite Photovoltaic Additives Market: Overall Company Footprint Analysis

3.6.1 Perovskite Photovoltaic Additives Market: Region Footprint

3.6.2 Perovskite Photovoltaic Additives Market: Company Product Type Footprint

3.6.3 Perovskite Photovoltaic Additives 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: Perovskite Photovoltaic Additives Production Value Comparison

4.1.1 United States VS China: Perovskite Photovoltaic Additives Production Value Comparison (2021 & 2025 & 2032)

4.1.2 United States VS China: Perovskite Photovoltaic Additives Production Value Market Share Comparison (2021 & 2025 & 2032)

4.2 United States VS China: Perovskite Photovoltaic Additives Production Comparison

4.2.1 United States VS China: Perovskite Photovoltaic Additives Production Comparison (2021 & 2025 & 2032)

4.2.2 United States VS China: Perovskite Photovoltaic Additives Production Market Share Comparison (2021 & 2025 & 2032)

4.3 United States VS China: Perovskite Photovoltaic Additives Consumption

## Comparison

4.3.1 United States VS China: Perovskite Photovoltaic Additives Consumption

Comparison (2021 & 2025 & 2032)

4.3.2 United States VS China: Perovskite Photovoltaic Additives Consumption Market Share Comparison (2021 & 2025 & 2032)

4.4 United States Based Perovskite Photovoltaic Additives Manufacturers and Market Share, 2021-2026

4.4.1 United States Based Perovskite Photovoltaic Additives Manufacturers, Headquarters and Production Site (States, Country)

4.4.2 United States Based Manufacturers Perovskite Photovoltaic Additives Production Value (2021-2026)

4.4.3 United States Based Manufacturers Perovskite Photovoltaic Additives Production (2021-2026)

4.5 China Based Perovskite Photovoltaic Additives Manufacturers and Market Share

4.5.1 China Based Perovskite Photovoltaic Additives Manufacturers, Headquarters and Production Site (Province, Country)

4.5.2 China Based Manufacturers Perovskite Photovoltaic Additives Production Value (2021-2026)

4.5.3 China Based Manufacturers Perovskite Photovoltaic Additives Production (2021-2026)

4.6 Rest of World Based Perovskite Photovoltaic Additives Manufacturers and Market Share, 2021-2026

4.6.1 Rest of World Based Perovskite Photovoltaic Additives Manufacturers, Headquarters and Production Site (State, Country)

4.6.2 Rest of World Based Manufacturers Perovskite Photovoltaic Additives Production Value (2021-2026)

4.6.3 Rest of World Based Manufacturers Perovskite Photovoltaic Additives Production (2021-2026)

## **5 MARKET ANALYSIS BY TYPE**

5.1 World Perovskite Photovoltaic Additives Market Size Overview by Type: 2021 VS 2025 VS 2032

5.2 Segment Introduction by Type

5.2.1 Film Formation Additives

5.2.2 Passivation Additives

5.2.3 Interface Additives

5.2.4 Stability Additives

5.2.5 Transport Additives

5.2.6 Other Additives

5.3 Market Segment by Type

5.3.1 World Perovskite Photovoltaic Additives Production by Type (2021-2032)

5.3.2 World Perovskite Photovoltaic Additives Production Value by Type (2021-2032)

5.3.3 World Perovskite Photovoltaic Additives Average Price by Type (2021-2032)

## **6 MARKET ANALYSIS BY SUPPLY FORM**

6.1 World Perovskite Photovoltaic Additives Market Size Overview by Supply Form:  
2021 VS 2025 VS 2032

6.2 Segment Introduction by Supply Form

6.2.1 Powder Solid

6.2.2 Crystal Solid

6.2.3 Solution

6.2.4 Dispersion

6.2.5 Other Forms

6.3 Market Segment by Supply Form

6.3.1 World Perovskite Photovoltaic Additives Production by Supply Form (2021-2032)

6.3.2 World Perovskite Photovoltaic Additives Production Value by Supply Form  
(2021-2032)

6.3.3 World Perovskite Photovoltaic Additives Average Price by Supply Form  
(2021-2032)

## **7 MARKET ANALYSIS BY CHEMICAL TYPE**

7.1 World Perovskite Photovoltaic Additives Market Size Overview by Chemical Type:  
2021 VS 2025 VS 2032

7.2 Segment Introduction by Chemical Type

7.2.1 Ammonium Salts

7.2.2 Guanidinium Salts

7.2.3 Alkali Salts

7.2.4 Pseudo-Halide Salts

7.2.5 Ionic Liquids

7.2.6 Lewis Bases

7.2.7 Polymer Additives

7.2.8 Others

7.3 Market Segment by Chemical Type

7.3.1 World Perovskite Photovoltaic Additives Production by Chemical Type  
(2021-2032)

7.3.2 World Perovskite Photovoltaic Additives Production Value by Chemical Type (2021-2032)

7.3.3 World Perovskite Photovoltaic Additives Average Price by Chemical Type (2021-2032)

## **8 MARKET ANALYSIS BY APPLICATION**

8.1 World Perovskite Photovoltaic Additives Market Size Overview by Application: 2021 VS 2025 VS 2032

8.2 Segment Introduction by Application

8.2.1 PSCs

8.2.2 Perovskite Modules

8.2.3 Perovskite Inks

8.2.4 Interface Materials

8.2.5 Others

8.3 Market Segment by Application

8.3.1 World Perovskite Photovoltaic Additives Production by Application (2021-2032)

8.3.2 World Perovskite Photovoltaic Additives Production Value by Application (2021-2032)

8.3.3 World Perovskite Photovoltaic Additives Average Price by Application (2021-2032)

## **9 COMPANY PROFILES**

9.1 Greatcell Solar Materials

9.1.1 Greatcell Solar Materials Details

9.1.2 Greatcell Solar Materials Major Business

9.1.3 Greatcell Solar Materials Perovskite Photovoltaic Additives Product and Services

9.1.4 Greatcell Solar Materials Perovskite Photovoltaic Additives Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.1.5 Greatcell Solar Materials Recent Developments/Updates

9.1.6 Greatcell Solar Materials Competitive Strengths & Weaknesses

9.2 Dyenamo

9.2.1 Dyenamo Details

9.2.2 Dyenamo Major Business

9.2.3 Dyenamo Perovskite Photovoltaic Additives Product and Services

9.2.4 Dyenamo Perovskite Photovoltaic Additives Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.2.5 Dyenamo Recent Developments/Updates

## 9.2.6 Dyenamo Competitive Strengths & Weaknesses

### 9.3 Ossila

#### 9.3.1 Ossila Details

#### 9.3.2 Ossila Major Business

#### 9.3.3 Ossila Perovskite Photovoltaic Additives Product and Services

#### 9.3.4 Ossila Perovskite Photovoltaic Additives Production, Price, Value, Gross Margin and Market Share (2021-2026)

#### 9.3.5 Ossila Recent Developments/Updates

#### 9.3.6 Ossila Competitive Strengths & Weaknesses

### 9.4 Borun New Material

#### 9.4.1 Borun New Material Details

#### 9.4.2 Borun New Material Major Business

#### 9.4.3 Borun New Material Perovskite Photovoltaic Additives Product and Services

#### 9.4.4 Borun New Material Perovskite Photovoltaic Additives Production, Price, Value, Gross Margin and Market Share (2021-2026)

#### 9.4.5 Borun New Material Recent Developments/Updates

#### 9.4.6 Borun New Material Competitive Strengths & Weaknesses

### 9.5 Lumtec

#### 9.5.1 Lumtec Details

#### 9.5.2 Lumtec Major Business

#### 9.5.3 Lumtec Perovskite Photovoltaic Additives Product and Services

#### 9.5.4 Lumtec Perovskite Photovoltaic Additives Production, Price, Value, Gross Margin and Market Share (2021-2026)

#### 9.5.5 Lumtec Recent Developments/Updates

#### 9.5.6 Lumtec Competitive Strengths & Weaknesses

### 9.6 Xi'an p-OLED

#### 9.6.1 Xi'an p-OLED Details

#### 9.6.2 Xi'an p-OLED Major Business

#### 9.6.3 Xi'an p-OLED Perovskite Photovoltaic Additives Product and Services

#### 9.6.4 Xi'an p-OLED Perovskite Photovoltaic Additives Production, Price, Value, Gross Margin and Market Share (2021-2026)

#### 9.6.5 Xi'an p-OLED Recent Developments/Updates

#### 9.6.6 Xi'an p-OLED Competitive Strengths & Weaknesses

### 9.7 TCI

#### 9.7.1 TCI Details

#### 9.7.2 TCI Major Business

#### 9.7.3 TCI Perovskite Photovoltaic Additives Product and Services

#### 9.7.4 TCI Perovskite Photovoltaic Additives Production, Price, Value, Gross Margin and Market Share (2021-2026)

- 9.7.5 TCI Recent Developments/Updates
- 9.7.6 TCI Competitive Strengths & Weaknesses
- 9.8 FUJIFILM Wako
  - 9.8.1 FUJIFILM Wako Details
  - 9.8.2 FUJIFILM Wako Major Business
  - 9.8.3 FUJIFILM Wako Perovskite Photovoltaic Additives Product and Services
  - 9.8.4 FUJIFILM Wako Perovskite Photovoltaic Additives Production, Price, Value, Gross Margin and Market Share (2021-2026)
  - 9.8.5 FUJIFILM Wako Recent Developments/Updates
  - 9.8.6 FUJIFILM Wako Competitive Strengths & Weaknesses
- 9.9 Merck
  - 9.9.1 Merck Details
  - 9.9.2 Merck Major Business
  - 9.9.3 Merck Perovskite Photovoltaic Additives Product and Services
  - 9.9.4 Merck Perovskite Photovoltaic Additives Production, Price, Value, Gross Margin and Market Share (2021-2026)
  - 9.9.5 Merck Recent Developments/Updates
  - 9.9.6 Merck Competitive Strengths & Weaknesses
- 9.10 American Elements
  - 9.10.1 American Elements Details
  - 9.10.2 American Elements Major Business
  - 9.10.3 American Elements Perovskite Photovoltaic Additives Product and Services
  - 9.10.4 American Elements Perovskite Photovoltaic Additives Production, Price, Value, Gross Margin and Market Share (2021-2026)
  - 9.10.5 American Elements Recent Developments/Updates
  - 9.10.6 American Elements Competitive Strengths & Weaknesses
- 9.11 Solaronix
  - 9.11.1 Solaronix Details
  - 9.11.2 Solaronix Major Business
  - 9.11.3 Solaronix Perovskite Photovoltaic Additives Product and Services
  - 9.11.4 Solaronix Perovskite Photovoltaic Additives Production, Price, Value, Gross Margin and Market Share (2021-2026)
  - 9.11.5 Solaronix Recent Developments/Updates
  - 9.11.6 Solaronix Competitive Strengths & Weaknesses
- 9.12 Avantama
  - 9.12.1 Avantama Details
  - 9.12.2 Avantama Major Business
  - 9.12.3 Avantama Perovskite Photovoltaic Additives Product and Services
  - 9.12.4 Avantama Perovskite Photovoltaic Additives Production, Price, Value, Gross

## Margin and Market Share (2021-2026)

9.12.5 Avantama Recent Developments/Updates

9.12.6 Avantama Competitive Strengths & Weaknesses

## 9.13 Solaveni

9.13.1 Solaveni Details

9.13.2 Solaveni Major Business

9.13.3 Solaveni Perovskite Photovoltaic Additives Product and Services

9.13.4 Solaveni Perovskite Photovoltaic Additives Production, Price, Value, Gross

## Margin and Market Share (2021-2026)

9.13.5 Solaveni Recent Developments/Updates

9.13.6 Solaveni Competitive Strengths & Weaknesses

## 9.14 Loba Chemie

9.14.1 Loba Chemie Details

9.14.2 Loba Chemie Major Business

9.14.3 Loba Chemie Perovskite Photovoltaic Additives Product and Services

9.14.4 Loba Chemie Perovskite Photovoltaic Additives Production, Price, Value, Gross

## Margin and Market Share (2021-2026)

9.14.5 Loba Chemie Recent Developments/Updates

9.14.6 Loba Chemie Competitive Strengths & Weaknesses

## 9.15 Thermo Scientific Chemicals

9.15.1 Thermo Scientific Chemicals Details

9.15.2 Thermo Scientific Chemicals Major Business

9.15.3 Thermo Scientific Chemicals Perovskite Photovoltaic Additives Product and Services

9.15.4 Thermo Scientific Chemicals Perovskite Photovoltaic Additives Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.15.5 Thermo Scientific Chemicals Recent Developments/Updates

9.15.6 Thermo Scientific Chemicals Competitive Strengths & Weaknesses

## 9.16 MSE Supplies

9.16.1 MSE Supplies Details

9.16.2 MSE Supplies Major Business

9.16.3 MSE Supplies Perovskite Photovoltaic Additives Product and Services

9.16.4 MSE Supplies Perovskite Photovoltaic Additives Production, Price, Value, Gross

## Margin and Market Share (2021-2026)

9.16.5 MSE Supplies Recent Developments/Updates

9.16.6 MSE Supplies Competitive Strengths & Weaknesses

## 10 INDUSTRY CHAIN ANALYSIS

- 10.1 Perovskite Photovoltaic Additives Industry Chain
- 10.2 Perovskite Photovoltaic Additives Upstream Analysis
  - 10.2.1 Perovskite Photovoltaic Additives Core Raw Materials
  - 10.2.2 Main Manufacturers of Perovskite Photovoltaic Additives Core Raw Materials
- 10.3 Midstream Analysis
- 10.4 Downstream Analysis
- 10.5 Perovskite Photovoltaic Additives Production Mode
- 10.6 Perovskite Photovoltaic Additives Procurement Model
- 10.7 Perovskite Photovoltaic Additives Industry Sales Model and Sales Channels
  - 10.7.1 Perovskite Photovoltaic Additives Sales Model
  - 10.7.2 Perovskite Photovoltaic Additives 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 Perovskite Photovoltaic Additives Production Value by Region (2021, 2025 and 2032) & (USD Million)

Table 2. World Perovskite Photovoltaic Additives Production Value by Region (2021-2026) & (USD Million)

Table 3. World Perovskite Photovoltaic Additives Production Value by Region (2027-2032) & (USD Million)

Table 4. World Perovskite Photovoltaic Additives Production Value Market Share by Region (2021-2026)

Table 5. World Perovskite Photovoltaic Additives Production Value Market Share by Region (2027-2032)

Table 6. World Perovskite Photovoltaic Additives Production by Region (2021-2026) & (kg)

Table 7. World Perovskite Photovoltaic Additives Production by Region (2027-2032) & (kg)

Table 8. World Perovskite Photovoltaic Additives Production Market Share by Region (2021-2026)

Table 9. World Perovskite Photovoltaic Additives Production Market Share by Region (2027-2032)

Table 10. World Perovskite Photovoltaic Additives Average Price by Region (2021-2026) & (US\$/kg)

Table 11. World Perovskite Photovoltaic Additives Average Price by Region (2027-2032) & (US\$/kg)

Table 12. Perovskite Photovoltaic Additives Major Market Trends

Table 13. World Perovskite Photovoltaic Additives Consumption Growth Rate Forecast by Region (2021 & 2025 & 2032) & (kg)

Table 14. World Perovskite Photovoltaic Additives Consumption by Region (2021-2026) & (kg)

Table 15. World Perovskite Photovoltaic Additives Consumption Forecast by Region (2027-2032) & (kg)

Table 16. World Perovskite Photovoltaic Additives Production Value by Manufacturer (2021-2026) & (USD Million)

Table 17. Production Value Market Share of Key Perovskite Photovoltaic Additives Producers in 2025

Table 18. World Perovskite Photovoltaic Additives Production by Manufacturer (2021-2026) & (kg)

Table 19. Production Market Share of Key Perovskite Photovoltaic Additives Producers in 2025

Table 20. World Perovskite Photovoltaic Additives Average Price by Manufacturer (2021-2026) & (US\$/kg)

Table 21. Global Perovskite Photovoltaic Additives Company Evaluation Quadrant

Table 22. World Perovskite Photovoltaic Additives Industry Rank of Major Manufacturers, Based on Production Value in 2025

Table 23. Head Office and Perovskite Photovoltaic Additives Production Site of Key Manufacturer

Table 24. Perovskite Photovoltaic Additives Market: Company Product Type Footprint

Table 25. Perovskite Photovoltaic Additives Market: Company Product Application Footprint

Table 26. Perovskite Photovoltaic Additives Competitive Factors

Table 27. Perovskite Photovoltaic Additives New Entrant and Capacity Expansion Plans

Table 28. Perovskite Photovoltaic Additives Mergers & Acquisitions Activity

Table 29. United States VS China Perovskite Photovoltaic Additives Production Value Comparison, (2021 & 2025 & 2032) & (USD Million)

Table 30. United States VS China Perovskite Photovoltaic Additives Production Comparison, (2021 & 2025 & 2032) & (kg)

Table 31. United States VS China Perovskite Photovoltaic Additives Consumption Comparison, (2021 & 2025 & 2032) & (kg)

Table 32. United States Based Perovskite Photovoltaic Additives Manufacturers, Headquarters and Production Site (States, Country)

Table 33. United States Based Manufacturers Perovskite Photovoltaic Additives Production Value, (2021-2026) & (USD Million)

Table 34. United States Based Manufacturers Perovskite Photovoltaic Additives Production Value Market Share (2021-2026)

Table 35. United States Based Manufacturers Perovskite Photovoltaic Additives Production (2021-2026) & (kg)

Table 36. United States Based Manufacturers Perovskite Photovoltaic Additives Production Market Share (2021-2026)

Table 37. China Based Perovskite Photovoltaic Additives Manufacturers, Headquarters and Production Site (Province, Country)

Table 38. China Based Manufacturers Perovskite Photovoltaic Additives Production Value, (2021-2026) & (USD Million)

Table 39. China Based Manufacturers Perovskite Photovoltaic Additives Production Value Market Share (2021-2026)

Table 40. China Based Manufacturers Perovskite Photovoltaic Additives Production, (2021-2026) & (kg)

Table 41. China Based Manufacturers Perovskite Photovoltaic Additives Production Market Share (2021-2026)

Table 42. Rest of World Based Perovskite Photovoltaic Additives Manufacturers, Headquarters and Production Site (State, Country)

Table 43. Rest of World Based Manufacturers Perovskite Photovoltaic Additives Production Value, (2021-2026) & (USD Million)

Table 44. Rest of World Based Manufacturers Perovskite Photovoltaic Additives Production Value Market Share (2021-2026)

Table 45. Rest of World Based Manufacturers Perovskite Photovoltaic Additives Production, (2021-2026) & (kg)

Table 46. Rest of World Based Manufacturers Perovskite Photovoltaic Additives Production Market Share (2021-2026)

Table 47. World Perovskite Photovoltaic Additives Production Value by Type, (USD Million), 2021 & 2025 & 2032

Table 48. World Perovskite Photovoltaic Additives Production by Type (2021-2026) & (kg)

Table 49. World Perovskite Photovoltaic Additives Production by Type (2027-2032) & (kg)

Table 50. World Perovskite Photovoltaic Additives Production Value by Type (2021-2026) & (USD Million)

Table 51. World Perovskite Photovoltaic Additives Production Value by Type (2027-2032) & (USD Million)

Table 52. World Perovskite Photovoltaic Additives Average Price by Type (2021-2026) & (US\$/kg)

Table 53. World Perovskite Photovoltaic Additives Average Price by Type (2027-2032) & (US\$/kg)

Table 54. World Perovskite Photovoltaic Additives Production Value by Supply Form, (USD Million), 2021 & 2025 & 2032

Table 55. World Perovskite Photovoltaic Additives Production by Supply Form (2021-2026) & (kg)

Table 56. World Perovskite Photovoltaic Additives Production by Supply Form (2027-2032) & (kg)

Table 57. World Perovskite Photovoltaic Additives Production Value by Supply Form (2021-2026) & (USD Million)

Table 58. World Perovskite Photovoltaic Additives Production Value by Supply Form (2027-2032) & (USD Million)

Table 59. World Perovskite Photovoltaic Additives Average Price by Supply Form (2021-2026) & (US\$/kg)

Table 60. World Perovskite Photovoltaic Additives Average Price by Supply Form

(2027-2032) & (US\$/kg)

Table 61. World Perovskite Photovoltaic Additives Production Value by Chemical Type, (USD Million), 2021 & 2025 & 2032

Table 62. World Perovskite Photovoltaic Additives Production by Chemical Type (2021-2026) & (kg)

Table 63. World Perovskite Photovoltaic Additives Production by Chemical Type (2027-2032) & (kg)

Table 64. World Perovskite Photovoltaic Additives Production Value by Chemical Type (2021-2026) & (USD Million)

Table 65. World Perovskite Photovoltaic Additives Production Value by Chemical Type (2027-2032) & (USD Million)

Table 66. World Perovskite Photovoltaic Additives Average Price by Chemical Type (2021-2026) & (US\$/kg)

Table 67. World Perovskite Photovoltaic Additives Average Price by Chemical Type (2027-2032) & (US\$/kg)

Table 68. World Perovskite Photovoltaic Additives Production Value by Application, (USD Million), 2021 & 2025 & 2032

Table 69. World Perovskite Photovoltaic Additives Production by Application (2021-2026) & (kg)

Table 70. World Perovskite Photovoltaic Additives Production by Application (2027-2032) & (kg)

Table 71. World Perovskite Photovoltaic Additives Production Value by Application (2021-2026) & (USD Million)

Table 72. World Perovskite Photovoltaic Additives Production Value by Application (2027-2032) & (USD Million)

Table 73. World Perovskite Photovoltaic Additives Average Price by Application (2021-2026) & (US\$/kg)

Table 74. World Perovskite Photovoltaic Additives Average Price by Application (2027-2032) & (US\$/kg)

Table 75. Greatcell Solar Materials Basic Information, Manufacturing Base and Competitors

Table 76. Greatcell Solar Materials Major Business

Table 77. Greatcell Solar Materials Perovskite Photovoltaic Additives Product and Services

Table 78. Greatcell Solar Materials Perovskite Photovoltaic Additives Production (kg), Price (US\$/kg), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 79. Greatcell Solar Materials Recent Developments/Updates

Table 80. Greatcell Solar Materials Competitive Strengths & Weaknesses

- Table 81. Dyenamo Basic Information, Manufacturing Base and Competitors
- Table 82. Dyenamo Major Business
- Table 83. Dyenamo Perovskite Photovoltaic Additives Product and Services
- Table 84. Dyenamo Perovskite Photovoltaic Additives Production (kg), Price (US\$/kg), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 85. Dyenamo Recent Developments/Updates
- Table 86. Dyenamo Competitive Strengths & Weaknesses
- Table 87. Ossila Basic Information, Manufacturing Base and Competitors
- Table 88. Ossila Major Business
- Table 89. Ossila Perovskite Photovoltaic Additives Product and Services
- Table 90. Ossila Perovskite Photovoltaic Additives Production (kg), Price (US\$/kg), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 91. Ossila Recent Developments/Updates
- Table 92. Ossila Competitive Strengths & Weaknesses
- Table 93. Borun New Material Basic Information, Manufacturing Base and Competitors
- Table 94. Borun New Material Major Business
- Table 95. Borun New Material Perovskite Photovoltaic Additives Product and Services
- Table 96. Borun New Material Perovskite Photovoltaic Additives Production (kg), Price (US\$/kg), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 97. Borun New Material Recent Developments/Updates
- Table 98. Borun New Material Competitive Strengths & Weaknesses
- Table 99. Lumtec Basic Information, Manufacturing Base and Competitors
- Table 100. Lumtec Major Business
- Table 101. Lumtec Perovskite Photovoltaic Additives Product and Services
- Table 102. Lumtec Perovskite Photovoltaic Additives Production (kg), Price (US\$/kg), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 103. Lumtec Recent Developments/Updates
- Table 104. Lumtec Competitive Strengths & Weaknesses
- Table 105. Xi'an p-OLED Basic Information, Manufacturing Base and Competitors
- Table 106. Xi'an p-OLED Major Business
- Table 107. Xi'an p-OLED Perovskite Photovoltaic Additives Product and Services
- Table 108. Xi'an p-OLED Perovskite Photovoltaic Additives Production (kg), Price (US\$/kg), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 109. Xi'an p-OLED Recent Developments/Updates
- Table 110. Xi'an p-OLED Competitive Strengths & Weaknesses
- Table 111. TCI Basic Information, Manufacturing Base and Competitors
- Table 112. TCI Major Business
- Table 113. TCI Perovskite Photovoltaic Additives Product and Services
- Table 114. TCI Perovskite Photovoltaic Additives Production (kg), Price (US\$/kg),

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

Table 115. TCI Recent Developments/Updates

Table 116. TCI Competitive Strengths & Weaknesses

Table 117. FUJIFILM Wako Basic Information, Manufacturing Base and Competitors

Table 118. FUJIFILM Wako Major Business

Table 119. FUJIFILM Wako Perovskite Photovoltaic Additives Product and Services

Table 120. FUJIFILM Wako Perovskite Photovoltaic Additives Production (kg), Price (US\$/kg), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 121. FUJIFILM Wako Recent Developments/Updates

Table 122. FUJIFILM Wako Competitive Strengths & Weaknesses

Table 123. Merck Basic Information, Manufacturing Base and Competitors

Table 124. Merck Major Business

Table 125. Merck Perovskite Photovoltaic Additives Product and Services

Table 126. Merck Perovskite Photovoltaic Additives Production (kg), Price (US\$/kg), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 127. Merck Recent Developments/Updates

Table 128. Merck Competitive Strengths & Weaknesses

Table 129. American Elements Basic Information, Manufacturing Base and Competitors

Table 130. American Elements Major Business

Table 131. American Elements Perovskite Photovoltaic Additives Product and Services

Table 132. American Elements Perovskite Photovoltaic Additives Production (kg), Price (US\$/kg), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 133. American Elements Recent Developments/Updates

Table 134. American Elements Competitive Strengths & Weaknesses

Table 135. Solaronix Basic Information, Manufacturing Base and Competitors

Table 136. Solaronix Major Business

Table 137. Solaronix Perovskite Photovoltaic Additives Product and Services

Table 138. Solaronix Perovskite Photovoltaic Additives Production (kg), Price (US\$/kg), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 139. Solaronix Recent Developments/Updates

Table 140. Solaronix Competitive Strengths & Weaknesses

Table 141. Avantama Basic Information, Manufacturing Base and Competitors

Table 142. Avantama Major Business

Table 143. Avantama Perovskite Photovoltaic Additives Product and Services

Table 144. Avantama Perovskite Photovoltaic Additives Production (kg), Price (US\$/kg), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 145. Avantama Recent Developments/Updates

Table 146. Avantama Competitive Strengths & Weaknesses

Table 147. Solaveni Basic Information, Manufacturing Base and Competitors

Table 148. Solaveni Major Business

Table 149. Solaveni Perovskite Photovoltaic Additives Product and Services

Table 150. Solaveni Perovskite Photovoltaic Additives Production (kg), Price (US\$/kg), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 151. Solaveni Recent Developments/Updates

Table 152. Solaveni Competitive Strengths & Weaknesses

Table 153. Loba Chemie Basic Information, Manufacturing Base and Competitors

Table 154. Loba Chemie Major Business

Table 155. Loba Chemie Perovskite Photovoltaic Additives Product and Services

Table 156. Loba Chemie Perovskite Photovoltaic Additives Production (kg), Price (US\$/kg), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 157. Loba Chemie Recent Developments/Updates

Table 158. Loba Chemie Competitive Strengths & Weaknesses

Table 159. Thermo Scientific Chemicals Basic Information, Manufacturing Base and Competitors

Table 160. Thermo Scientific Chemicals Major Business

Table 161. Thermo Scientific Chemicals Perovskite Photovoltaic Additives Product and Services

Table 162. Thermo Scientific Chemicals Perovskite Photovoltaic Additives Production (kg), Price (US\$/kg), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 163. Thermo Scientific Chemicals Recent Developments/Updates

Table 164. Thermo Scientific Chemicals Competitive Strengths & Weaknesses

Table 165. MSE Supplies Basic Information, Manufacturing Base and Competitors

Table 166. MSE Supplies Major Business

Table 167. MSE Supplies Perovskite Photovoltaic Additives Product and Services

Table 168. MSE Supplies Perovskite Photovoltaic Additives Production (kg), Price (US\$/kg), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 169. MSE Supplies Recent Developments/Updates

Table 170. MSE Supplies Competitive Strengths & Weaknesses

Table 171. Global Key Players of Perovskite Photovoltaic Additives Upstream (Raw Materials)

Table 172. Global Perovskite Photovoltaic Additives Typical Customers

Table 173. Perovskite Photovoltaic Additives Typical Distributors

## List Of Figures

### LIST OF FIGURES

Figure 1. Perovskite Photovoltaic Additives Picture

Figure 2. World Perovskite Photovoltaic Additives Production Value: 2021 & 2025 & 2032, (USD Million)

Figure 3. World Perovskite Photovoltaic Additives Production Value and Forecast (2021-2032) & (USD Million)

Figure 4. World Perovskite Photovoltaic Additives Production (2021-2032) & (kg)

Figure 5. World Perovskite Photovoltaic Additives Average Price (2021-2032) & (US\$/kg)

Figure 6. World Perovskite Photovoltaic Additives Production Value Market Share by Region (2021-2032)

Figure 7. World Perovskite Photovoltaic Additives Production Market Share by Region (2021-2032)

Figure 8. North America Perovskite Photovoltaic Additives Production (2021-2032) & (kg)

Figure 9. Europe Perovskite Photovoltaic Additives Production (2021-2032) & (kg)

Figure 10. China Perovskite Photovoltaic Additives Production (2021-2032) & (kg)

Figure 11. Japan Perovskite Photovoltaic Additives Production (2021-2032) & (kg)

Figure 12. India Perovskite Photovoltaic Additives Production (2021-2032) & (kg)

Figure 13. Perovskite Photovoltaic Additives Market Drivers

Figure 14. Factors Affecting Demand

Figure 15. World Perovskite Photovoltaic Additives Consumption (2021-2032) & (kg)

Figure 16. World Perovskite Photovoltaic Additives Consumption Market Share by Region (2021-2032)

Figure 17. United States Perovskite Photovoltaic Additives Consumption (2021-2032) & (kg)

Figure 18. China Perovskite Photovoltaic Additives Consumption (2021-2032) & (kg)

Figure 19. Europe Perovskite Photovoltaic Additives Consumption (2021-2032) & (kg)

Figure 20. Japan Perovskite Photovoltaic Additives Consumption (2021-2032) & (kg)

Figure 21. South Korea Perovskite Photovoltaic Additives Consumption (2021-2032) & (kg)

Figure 22. ASEAN Perovskite Photovoltaic Additives Consumption (2021-2032) & (kg)

Figure 23. India Perovskite Photovoltaic Additives Consumption (2021-2032) & (kg)

Figure 24. Producer Shipments of Perovskite Photovoltaic Additives by Manufacturer Revenue (\$MM) and Market Share (%): 2025

Figure 25. Global Four-firm Concentration Ratios (CR4) for Perovskite Photovoltaic

## Additives Markets in 2025

Figure 26. Global Four-firm Concentration Ratios (CR8) for Perovskite Photovoltaic Additives Markets in 2025

Figure 27. United States VS China: Perovskite Photovoltaic Additives Production Value Market Share Comparison (2021 & 2025 & 2032)

Figure 28. United States VS China: Perovskite Photovoltaic Additives Production Market Share Comparison (2021 & 2025 & 2032)

Figure 29. United States VS China: Perovskite Photovoltaic Additives Consumption Market Share Comparison (2021 & 2025 & 2032)

Figure 30. United States Based Manufacturers Perovskite Photovoltaic Additives Production Market Share 2025

Figure 31. China Based Manufacturers Perovskite Photovoltaic Additives Production Market Share 2025

Figure 32. Rest of World Based Manufacturers Perovskite Photovoltaic Additives Production Market Share 2025

Figure 33. World Perovskite Photovoltaic Additives Production Value by Type, (USD Million), 2021 & 2025 & 2032

Figure 34. World Perovskite Photovoltaic Additives Production Value Market Share by Type in 2025

Figure 35. Film Formation Additives

Figure 36. Passivation Additives

Figure 37. Interface Additives

Figure 38. Stability Additives

Figure 39. Transport Additives

Figure 40. Other Additives

Figure 41. World Perovskite Photovoltaic Additives Production Market Share by Type (2021-2032)

Figure 42. World Perovskite Photovoltaic Additives Production Value Market Share by Type (2021-2032)

Figure 43. World Perovskite Photovoltaic Additives Average Price by Type (2021-2032) & (US\$/kg)

Figure 44. World Perovskite Photovoltaic Additives Production Value by Supply Form, (USD Million), 2021 & 2025 & 2032

Figure 45. World Perovskite Photovoltaic Additives Production Value Market Share by Supply Form in 2025

Figure 46. Powder Solid

Figure 47. Crystal Solid

Figure 48. Solution

Figure 49. Dispersion

Figure 50. Other Forms

Figure 51. World Perovskite Photovoltaic Additives Production Market Share by Supply Form (2021-2032)

Figure 52. World Perovskite Photovoltaic Additives Production Value Market Share by Supply Form (2021-2032)

Figure 53. World Perovskite Photovoltaic Additives Average Price by Supply Form (2021-2032) & (US\$/kg)

Figure 54. World Perovskite Photovoltaic Additives Production Value by Chemical Type, (USD Million), 2021 & 2025 & 2032

Figure 55. World Perovskite Photovoltaic Additives Production Value Market Share by Chemical Type in 2025

Figure 56. Ammonium Salts

Figure 57. Guanidinium Salts

Figure 58. Alkali Salts

Figure 59. Pseudo-Halide Salts

Figure 60. Ionic Liquids

Figure 61. Lewis Bases

Figure 62. Polymer Additives

Figure 63. Others

Figure 64. Polymer Additives

Figure 65. World Perovskite Photovoltaic Additives Production Market Share by Chemical Type (2021-2032)

Figure 66. World Perovskite Photovoltaic Additives Production Value Market Share by Chemical Type (2021-2032)

Figure 67. World Perovskite Photovoltaic Additives Average Price by Chemical Type (2021-2032) & (US\$/kg)

Figure 68. World Perovskite Photovoltaic Additives Production Value by Application, (USD Million), 2021 & 2025 & 2032

Figure 69. World Perovskite Photovoltaic Additives Production Value Market Share by Application in 2025

Figure 70. PSCs

Figure 71. Perovskite Modules

Figure 72. Perovskite Inks

Figure 73. Interface Materials

Figure 74. Others

Figure 75. World Perovskite Photovoltaic Additives Production Market Share by Application (2021-2032)

Figure 76. World Perovskite Photovoltaic Additives Production Value Market Share by Application (2021-2032)

Figure 77. World Perovskite Photovoltaic Additives Average Price by Application (2021-2032) & (US\$/kg)

Figure 78. Perovskite Photovoltaic Additives Industry Chain

Figure 79. Perovskite Photovoltaic Additives Procurement Model

Figure 80. Perovskite Photovoltaic Additives Sales Model

Figure 81. Perovskite Photovoltaic Additives Sales Channels, Direct Sales, and Distribution

Figure 82. Methodology

Figure 83. Research Process and Data Source

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