

# Global Perovskite Photovoltaic Additives Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

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## Abstracts

According to our (Global Info Research) latest study, the global Perovskite Photovoltaic Additives market size was valued at US\$ 28.81 million in 2025 and is forecast to a readjusted size of US\$ 244 million by 2032 with a CAGR of 34.0% during review period.

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

#### Key Features:

Global Perovskite Photovoltaic Additives market size and forecasts, in consumption value (\$ Million), sales quantity (kg), and average selling prices (US\$/kg), 2021-2032

Global Perovskite Photovoltaic Additives market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (kg), and average selling prices (US\$/kg), 2021-2032

Global Perovskite Photovoltaic Additives market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (kg), and average selling prices (US\$/kg), 2021-2032

Global Perovskite Photovoltaic Additives market shares of main players, shipments in revenue (\$ Million), sales quantity (kg), and ASP (US\$/kg), 2021-2026

#### The Primary Objectives in This Report Are:

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

To assess the growth potential for Perovskite Photovoltaic Additives

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

To assess competitive factors affecting the marketplace

This report profiles key players in the global Perovskite Photovoltaic Additives market based on the following parameters - company overview, sales quantity, revenue, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include 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.

## Market Segmentation

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

### Market segment by Type

Film Formation Additives

Passivation Additives

Interface Additives

Stability Additives

Transport Additives

Other Additives

## Market segment by Supply Form

Powder Solid

Crystal Solid

Solution

Dispersion

Other Forms

## Market segment by Chemical Type

Ammonium Salts

Guanidinium Salts

Alkali Salts

Pseudo-Halide Salts

Ionic Liquids

Lewis Bases

Polymer Additives

Others

## Market segment by Application

PSCs

Perovskite Modules

Perovskite Inks

Interface Materials

Others

### Major players covered

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

Market segment by region, regional analysis covers

North America (United States, Canada, and Mexico)

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

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

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

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

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

Chapter 1, to describe Perovskite Photovoltaic Additives product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Perovskite Photovoltaic Additives, with price, sales quantity, revenue, and global market share of Perovskite Photovoltaic Additives from 2021 to 2026.

Chapter 3, the Perovskite Photovoltaic Additives competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Perovskite Photovoltaic Additives breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2021 to 2032.

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

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value, and market share for key countries in the world, from 2021 to 2026. and Perovskite Photovoltaic Additives market forecast, by regions, by Type, and

by Application, with sales and revenue, from 2027 to 2032.

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

Chapter 13, the key raw materials and key suppliers, and industry chain of Perovskite Photovoltaic Additives.

Chapter 14 and 15, to describe Perovskite Photovoltaic Additives sales channel, distributors, customers, research findings and conclusion.

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