

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

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## Abstracts

The global Perovskite Photovoltaic Compounds market size is expected to reach \$ 2732 million by 2032, rising at a market growth of 15.4% CAGR during the forecast period (2026-2032).

Perovskite photovoltaic compounds are a class of light-absorbing semiconductor materials with a crystal structure similar to the mineral perovskite (ABX<sub>3</sub>). In solar cells, these compounds typically consist of an organic or inorganic cation (A), a metal cation such as lead or tin (B), and a halide anion like iodine or bromine (X). They are widely studied for next-generation solar cells because of their high power conversion efficiency, low manufacturing cost, tunable bandgap, and solution-process compatibility. In 2025, global Perovskite Photovoltaic Compound production reached approximately 1,585 tons, with an average global market price of around US\$ 0.6 M per ton. Annual production capacity is 1,820 tons. Gross Profit Margin: 38.47%. The upstream of perovskite photovoltaic compounds consists of specialty chemical suppliers providing high-purity metal halides (such as lead iodide and tin iodide), organic ammonium salts, solvents, and functional additives. Midstream manufacturers process these inputs into perovskite precursor salts, formulated inks, or pre-synthesized perovskite materials tailored for different deposition techniques. Downstream, the materials are supplied to perovskite solar cell and tandem module manufacturers, research institutions, and pilot production lines, where they are integrated into photovoltaic devices for utility-scale, building-integrated, and specialty solar applications. Perovskite photovoltaic compounds represent one of the most promising material innovations in next-generation solar technology, mainly because they combine high efficiency potential with low-temperature, solution-based processing. However, long-term stability, large-scale manufacturing consistency, and environmental considerations around lead content remain key challenges that will shape supplier

competitiveness. In the coming years, material companies that can deliver stable formulations, scalable ink systems, and regulatory-compliant compositions are likely to capture the greatest value as the industry transitions from pilot scale to mass commercialization.

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

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

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

Global Perovskite Photovoltaic Compounds total production and demand, 2021-2032, (Tons)

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

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

Global Perovskite Photovoltaic Compounds consumption by region & country, CAGR, 2021-2032 & (Tons)

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

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

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

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

This report profiles key players in the global Perovskite Photovoltaic Compounds 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 American Perovskites (USA), Tokyo Chemical Industry TCI (Japan), Ajay-SQM Group (USA/Chile), Alfa Chemistry Materials (USA), Greatcell Solar Materials (Australia), Borun New Material (China), BOC Sciences (USA), Ossila Ltd (UK), Nanoshel (USA), American Elements (USA), 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 Compounds market

### **Detailed Segmentation:**

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

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

#### Global Perovskite Photovoltaic Compounds Market, Segmentation by Type:

Perovskite Precursor Salts

Pre-mixed Perovskite Precursor Solutions (Inks)

## Pre-synthesized Perovskite Powders

Global Perovskite Photovoltaic Compounds Market, Segmentation by B-Site Metal Composition:

Lead-based Perovskite Compounds

Tin-based Perovskite Compounds

Lead–Tin Mixed Perovskite Compounds

Global Perovskite Photovoltaic Compounds Market, Segmentation by Application:

Solar System

Aerospace & Specialty

Others

Companies Profiled:

American Perovskites (USA)

Tokyo Chemical Industry TCI (Japan)

Ajay-SQM Group (USA/Chile)

Alfa Chemistry Materials (USA)

Greatcell Solar Materials (Australia)

Borun New Material (China)

BOC Sciences (USA)

Ossila Ltd (UK)

Nanoshel (USA)

American Elements (USA)

Fujifilm Wako Pure Chemical (Japan)

Lumtec Corporation (Japan)

Wuhan HealthCare Biotechnology (China)

Dyename AB (Sweden)

Solaronix SA (Switzerland)

Zhongshan Dixing Chemical (China)

CNBM (Chengdu) Optoelectronic Materials (China)

Avantama AG (Germany)

PY Materials (USA)

Hunt Perovskite Technologies (China)

### **Key Questions Answered:**

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

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