

Global PERC Silver Powder Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global PERC Silver Powder market size is expected to reach \$ 2502 million by 2032, rising at a market growth of 3.2% CAGR during the forecast period (2026-2032).

PERC silver powder refers to photovoltaic-grade Ag powder used as the main conductive functional phase in screen-printed silver pastes for PERC (Passivated Emitter and Rear Contact) crystalline-silicon solar cells. In industrial c-Si PV, metallization is predominantly done by screen printing Ag pastes, followed by a fast firing step; the paste system relies on Ag particles to sinter into a dense conductive network and form low-resistance current-collecting grids.

Upstream, PERC silver powder is commonly produced from high-purity silver salts (e.g., silver nitrate solutions) via wet chemical reduction / precipitation routes (often using complexing agents such as ammonia to form Ag complexes) and then washing/drying/classification. Downstream, it is blended with glass frit and organic vehicle/binders/solvents to make solar Ag paste (glass frit is typically a small fraction but is critical for contact formation), then screen-printed onto Si wafers and fired to form electrodes; during firing the glass phase assists reactions at the SiNx/Si interface and supports adhesion/contact formation.

In 2025, global sales of PERC silver powder reached approximately 2,130 tons, with an average global market price of around US\$ 909/kg. Production capacity varies significantly among manufacturers, with gross profit margins ranging from approximately 3% to 15%.

This report studies the global PERC Silver Powder production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for PERC Silver Powder 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 PERC Silver Powder that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global PERC Silver Powder total production and demand, 2021-2032, (Tons)

Global PERC Silver Powder total production value, 2021-2032, (USD Million)

Global PERC Silver Powder production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Tons), (based on production site)

Global PERC Silver Powder consumption by region & country, CAGR, 2021-2032 & (Tons)

U.S. VS China: PERC Silver Powder domestic production, consumption, key domestic manufacturers and share

Global PERC Silver Powder production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Tons)

Global PERC Silver Powder production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Tons)

Global PERC Silver Powder production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Tons)

This report profiles key players in the global PERC Silver Powder 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 DOWA Electronics Materials, Ames Goldsmith, Metalor Technologies, Daejoo Electronic Materials, Technic, Jianbang Hi-Tech, BTL, Yinke New Materials, Ningbo Jingxin Electronic Materials, Changde Guoyin New Materials, 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 PERC Silver Powder market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (Tons) 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 PERC Silver Powder Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global PERC Silver Powder Market, Segmentation by Type:

Front-Side Finger Grade Silver Powder

Front-Side Busbar Grade Silver Powder

Rear-Side Grade Silver Powder

Global PERC Silver Powder Market, Segmentation by Particle Morphology:

Spherical Silver Powder

Flake Silver Powder

Morphology-Mixed Silver Powder

Global PERC Silver Powder Market, Segmentation by Particle Size:

Nano Silver Powder

Micron Silver Powder

Global PERC Silver Powder Market, Segmentation by Application:

PERC Front Electrode Paste

PERC Rear Electrode Paste

Other

Companies Profiled:

DOWA Electronics Materials

Ames Goldsmith

Metalor Technologies

Daejoo Electronic Materials

Technic

Jianbang Hi-Tech

BTL

Yinke New Materials

Ningbo Jingxin Electronic Materials

Changde Guoyin New Materials

Key Questions Answered:

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

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