

Global PERC Silver Powder 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 PERC Silver Powder market size was valued at US\$ 1992 million in 2025 and is forecast to a readjusted size of US\$ 2502 million by 2032 with a CAGR of 3.2% during review period.

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 is a detailed and comprehensive analysis for global PERC Silver Powder 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 PERC Silver Powder market size and forecasts, in consumption value (\$ Million), sales quantity (Tons), and average selling prices (US\$/kg), 2021-2032

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

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

Global PERC Silver Powder market shares of main players, shipments in revenue (\$ Million), sales quantity (Tons), 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 PERC Silver Powder

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 PERC Silver Powder 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 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.

Market Segmentation

PERC Silver Powder 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

Front-Side Finger Grade Silver Powder

Front-Side Busbar Grade Silver Powder

Rear-Side Grade Silver Powder

Market segment by Particle Morphology

Spherical Silver Powder

Flake Silver Powder

Morphology-Mixed Silver Powder

Market segment by Particle Size

Nano Silver Powder

Micron Silver Powder

Market segment by Application

PERC Front Electrode Paste

PERC Rear Electrode Paste

Other

Major players covered

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

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 PERC Silver Powder product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of PERC Silver Powder, with price, sales quantity, revenue, and global market share of PERC Silver Powder from 2021 to 2026.

Chapter 3, the PERC Silver Powder competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the PERC Silver Powder 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 PERC Silver Powder 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 PERC Silver Powder.

Chapter 14 and 15, to describe PERC Silver Powder sales channel, distributors, customers, research findings and conclusion.

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