

# Global PV-Grade Silver Powder for TOPCon Metallization Pastes 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 PV-Grade Silver Powder for TOPCon Metallization Pastes market size was valued at US\$ 4661 million in 2025 and is forecast to a readjusted size of US\$ 6015 million by 2032 with a CAGR of 3.8% during review period.

PV-Grade Silver Powder for TOPCon Metallization Pastes is a high-purity silver powder tailored for the conductive network in TOPCon screen-printing pastes, with tight control over particle size, morphology, surface condition, and impurities. Because paste performance is highly sensitive to the silver powder characteristics, these powders are engineered to support fine-line printing, dense sintering, and stable electrical performance in TOPCon-relevant metallization sequences.

Upstream, the powder is commonly manufactured via controlled precipitation/reduction routes (wet-chemical reduction) and classification, where surfactants and process controls help tune particle growth and prevent agglomeration. Downstream, it is supplied to PV paste makers to formulate TOPCon Ag pastes (with frit and organic vehicles), which are then used by TOPCon cell manufacturers for screen-printed grid formation and subsequent thermal processing before module assembly.

In 2025, global sales of PV-Grade Silver Powder for TOPCon Metallization Pastes reached approximately 4,989 tons, with an average global market price of around US\$ 908/kg. Production capacity varies significantly among manufacturers, with gross profit margins ranging from approximately 2% to 12%.

This report is a detailed and comprehensive analysis for global PV-Grade Silver Powder

for TOPCon Metallization Pastes 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 PV-Grade Silver Powder for TOPCon Metallization Pastes market size and forecasts, in consumption value (\$ Million), sales quantity (Tons), and average selling prices (US\$/kg), 2021-2032

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

Global PV-Grade Silver Powder for TOPCon Metallization Pastes 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 PV-Grade Silver Powder for TOPCon Metallization Pastes 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 PV-Grade Silver Powder for TOPCon Metallization Pastes
- 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 PV-Grade Silver Powder for TOPCon Metallization Pastes 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, Mitsui Kinzoku, TANAKA Precious Metals, Metalor Technologies, Daejoo Electronic Materials, Ames Goldsmith, Jianbang Hi-Tech, Boqian, Changde

Guoyin New Materials, Ningbo Jingxin Electronic Materials, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

## **Market Segmentation**

PV-Grade Silver Powder for TOPCon Metallization Pastes 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 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

N-type TOPCon Crystalline-Si Solar Cells

Bifacial TOPCon Solar Cells

Other

#### Major players covered

DOWA Electronics Materials

Mitsui Kinzoku

TANAKA Precious Metals

Metalor Technologies

Daejoo Electronic Materials

Ames Goldsmith

Jianbang Hi-Tech

Boqian

Changde Guoyin New Materials

Ningbo Jingxin Electronic 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 PV-Grade Silver Powder for TOPCon Metallization Pastes product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of PV-Grade Silver Powder for TOPCon Metallization Pastes, with price, sales quantity, revenue, and global market share of PV-Grade Silver Powder for TOPCon Metallization Pastes from 2021 to 2026.

Chapter 3, the PV-Grade Silver Powder for TOPCon Metallization Pastes competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the PV-Grade Silver Powder for TOPCon Metallization Pastes 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 PV-Grade Silver Powder for TOPCon Metallization Pastes 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 PV-Grade Silver Powder for TOPCon Metallization Pastes.

Chapter 14 and 15, to describe PV-Grade Silver Powder for TOPCon Metallization Pastes sales channel, distributors, customers, research findings and conclusion.

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