

# Global PV-Grade Silver Powder for TOPCon Metallization Pastes Supply, Demand and Key Producers, 2026-2032

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## Abstracts

The global PV-Grade Silver Powder for TOPCon Metallization Pastes market size is expected to reach \$ 6015 million by 2032, rising at a market growth of 3.8% CAGR during the forecast period (2026-2032).

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 studies the global PV-Grade Silver Powder for TOPCon Metallization Pastes production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for PV-Grade Silver Powder for TOPCon Metallization Pastes 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 PV-Grade Silver Powder for TOPCon Metallization Pastes that contribute to its increasing demand across many markets.

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

Global PV-Grade Silver Powder for TOPCon Metallization Pastes total production and demand, 2021-2032, (Tons)

Global PV-Grade Silver Powder for TOPCon Metallization Pastes total production value, 2021-2032, (USD Million)

Global PV-Grade Silver Powder for TOPCon Metallization Pastes production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Tons), (based on production site)

Global PV-Grade Silver Powder for TOPCon Metallization Pastes consumption by region & country, CAGR, 2021-2032 & (Tons)

U.S. VS China: PV-Grade Silver Powder for TOPCon Metallization Pastes domestic production, consumption, key domestic manufacturers and share

Global PV-Grade Silver Powder for TOPCon Metallization Pastes production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Tons)

Global PV-Grade Silver Powder for TOPCon Metallization Pastes production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Tons)

Global PV-Grade Silver Powder for TOPCon Metallization Pastes production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Tons)

This report profiles key players in the global PV-Grade Silver Powder for TOPCon Metallization Pastes 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, 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.

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World PV-Grade Silver Powder for TOPCon Metallization Pastes 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 PV-Grade Silver Powder for TOPCon Metallization Pastes Market, By Region:**

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

### **Global PV-Grade Silver Powder for TOPCon Metallization Pastes Market, Segmentation by Type:**

Front-Side Grade Silver Powder

Rear-Side Grade Silver Powder

Global PV-Grade Silver Powder for TOPCon Metallization Pastes Market, Segmentation by Particle Morphology:

Spherical Silver Powder

Flake Silver Powder

Morphology-Mixed Silver Powder

Global PV-Grade Silver Powder for TOPCon Metallization Pastes Market, Segmentation by Particle Size:

Nano Silver Powder

Micron Silver Powder

Global PV-Grade Silver Powder for TOPCon Metallization Pastes Market, Segmentation by Application:

N-type TOPCon Crystalline-Si Solar Cells

Bifacial TOPCon Solar Cells

Other

Companies Profiled:

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

**Key Questions Answered:**

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

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