

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

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Abstracts

The global TOPCon Silver Powder market size is expected to reach \$ 5891 million by 2032, rising at a market growth of 3.7% CAGR during the forecast period (2026-2032).

TOPCon silver powder refers to high-purity Ag powder used as the main conductive functional phase in Ag-based metallization pastes for TOPCon (Tunnel Oxide Passivated Contact) crystalline-silicon solar cells. In industrial TOPCon, metallization is commonly done by screen printing silver-containing pastes followed by contact firing, and the Ag powder's particle size distribution, morphology, and surface condition strongly influence printability, sintering densification, and contact resistivity.

Upstream, PV-grade Ag powder is typically produced from silver salts (commonly silver nitrate solutions) via liquid-phase/wet-chemical reduction, using reducing agents and surfactants/dispersants to control particle size/morphology; continuous microreactor routes are also studied for tighter control. Downstream, the powder is formulated with glass frit + organic vehicle/additives into TOPCon silver pastes for front/rear printing.

In 2025, global sales of TOPCon silver powder reached approximately 4,867 tons, with an average global market price of around US\$ 912/kg. Production capacity varies significantly among manufacturers, with gross profit margins ranging from approximately 3% to 15%.

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

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

Highlights and key features of the study

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

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

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

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

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

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

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

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

This report profiles key players in the global TOPCon 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, Mitsui Kinzoku, TANAKA Precious Metals, Metalor Technologies, Daejoo Electronic Materials, Ames Goldsmith, Jianbang Hi-Tech, Changde Guoyin New Materials, Ningbo Jingxin Electronic Materials, Boqian, 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 TOPCon 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 TOPCon Silver Powder Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global TOPCon Silver Powder Market, Segmentation by Type:

Front-Side Grade Silver Powder

Rear-Side Grade Silver Powder

Global TOPCon Silver Powder Market, Segmentation by Particle Morphology:

Spherical Silver Powder

Flake Silver Powder

Morphology-Mixed Silver Powder

Global TOPCon Silver Powder Market, Segmentation by Particle Size:

Nano Silver Powder

Micron Silver Powder

Global TOPCon Silver Powder 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

Changde Guoyin New Materials

Ningbo Jingxin Electronic Materials

Boqian

Key Questions Answered:

1. How big is the global TOPCon Silver Powder market?

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

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