

Global Photovoltaic Tungsten Wire Supply, Demand and Key Producers, 2026-2032

<https://marketpublishers.com/r/G5FA3FC68D31EN.html>

Date: April 2026

Pages: 82

Price: US\$ 4,480.00 (Single User License)

ID: G5FA3FC68D31EN

Abstracts

The global Photovoltaic Tungsten Wire market size is expected to reach \$ 3522 million by 2032, rising at a market growth of 6.5% CAGR during the forecast period (2026-2032).

Photovoltaic Tungsten Wire refers to ultra-fine, high-strength tungsten filament used as the core wire (mother wire) in diamond wire saws for slicing crystalline silicon ingots into wafers for solar cells. Typically with diameters around 28-40 μ m, it offers extremely high tensile strength, excellent straightness, heat resistance, and dimensional stability under high-speed cutting. Compared with traditional high-carbon steel wire, tungsten wire enables thinner wafers, lower breakage rates, higher cutting speed, and reduced silicon material loss (kerf loss). As wafer thickness continues to decline and N-type large-size wafers become mainstream, photovoltaic tungsten wire has become a key upstream consumable material in the solar wafer manufacturing process. In 2025, global Photovoltaic Tungsten Wire production reached approximately 14000 tons, with an average global market price of around US\$150000 per ton. The production capacity for Photovoltaic Tungsten Wire in 2025 was approximately 16000 tons. The typical gross profit margin for Photovoltaic Tungsten Wire between 20% and 40%.

The photovoltaic tungsten wire market is driven by rapid expansion of global solar wafer capacity and the transition toward thinner, larger-format, and N-type wafers. As diamond wire sawing has fully replaced slurry cutting in crystalline silicon wafering, demand for high-strength mother wire has increased significantly. The market is closely linked to wafer production capacity rather than module installations, and consumption rises with higher cutting speeds and reduced wafer thickness. Asia-Pacific, especially China, dominates downstream demand due to its concentration of wafer manufacturing, while advanced material suppliers in Japan, Europe, and the United States provide

upstream tungsten materials and specialty wire technologies. Future growth will be supported by TOPCon and heterojunction (HJT) technologies, which require tighter cutting precision and thinner wafers.

This report studies the global Photovoltaic Tungsten Wire production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Photovoltaic Tungsten Wire 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 Photovoltaic Tungsten Wire that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Photovoltaic Tungsten Wire total production and demand, 2021-2032, (Tons)

Global Photovoltaic Tungsten Wire total production value, 2021-2032, (USD Million)

Global Photovoltaic Tungsten Wire production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Tons), (based on production site)

Global Photovoltaic Tungsten Wire consumption by region & country, CAGR, 2021-2032 & (Tons)

U.S. VS China: Photovoltaic Tungsten Wire domestic production, consumption, key domestic manufacturers and share

Global Photovoltaic Tungsten Wire production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Tons)

Global Photovoltaic Tungsten Wire production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Tons)

Global Photovoltaic Tungsten Wire production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Tons)

This report profiles key players in the global Photovoltaic Tungsten Wire 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 Xiamen Tungsten, China Tungsten and Hightech Materials, Chongyi Zhangyuan Tungsten, Guangdong Xianglu Tungsten, 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 Photovoltaic Tungsten Wire market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (Tons) and average price (US\$/Ton) 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 Photovoltaic Tungsten Wire Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Photovoltaic Tungsten Wire Market, Segmentation by Type:

Pure Tungsten Wire

Doped Tungsten Wire

Global Photovoltaic Tungsten Wire Market, Segmentation by Diameter:

?38 ?m

28?38 ?m

?28 ?m

Global Photovoltaic Tungsten Wire Market, Segmentation by Manufacturing Process:

Powder Metallurgy Drawn Tungsten Wire

Recrystallization Controlled Tungsten Wire

Multi-pass Precision Drawn Tungsten Wire

Other

Global Photovoltaic Tungsten Wire Market, Segmentation by Application:

Photovoltaic Silicon Wafer Manufacturing

Semiconductor Wafer Processing

Other

Companies Profiled:

Xiamen Tungsten

China Tungsten and Hightech Materials

Chongyi Zhangyuan Tungsten

Guangdong Xianglu Tungsten

Key Questions Answered:

1. How big is the global Photovoltaic Tungsten Wire market?

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

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