

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

<https://marketpublishers.com/r/G4338598CFDFEN.html>

Date: April 2026

Pages: 85

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

ID: G4338598CFDFEN

Abstracts

The global Tungsten Wire for Photovoltaic 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).

Tungsten Wire for Photovoltaic is an ultra-fine, high-tensile tungsten filament used as the core wire (mother wire) in electroplated diamond wire saws for slicing monocrystalline or multicrystalline silicon ingots into solar wafers. With typical diameters of about 28-40 μm , it maintains excellent straightness, thermal stability, and fatigue resistance under high-speed reciprocating cutting. Compared with conventional piano (high-carbon steel) wire, tungsten wire enables higher cutting speed, lower wire breakage, reduced kerf loss, and thinner wafers, thereby improving wafer yield and reducing silicon consumption cost. It has therefore become a critical upstream consumable material in crystalline-silicon solar wafer manufacturing. In 2025, global Tungsten Wire for Photovoltaic production reached approximately 14000 tons, with an average global market price of around US\$150000 per ton. The production capacity for Tungsten Wire for Photovoltaic in 2025 was approximately 16000 tons. The typical gross profit margin for Tungsten Wire for Photovoltaic between 20% and 40%.

The tungsten wire for photovoltaic market is closely tied to global crystalline-silicon wafer production capacity and the ongoing shift toward larger wafer formats, thinner wafers, and N-type cell technologies. As diamond wire sawing has become the standard wafering method, demand for high-strength mother wire continues to rise, particularly in Asia-Pacific where most wafer manufacturing is concentrated. Market growth is driven by increasing wafer output, faster cutting speeds, and higher precision requirements from technologies such as TOPCon and heterojunction (HJT). Upstream material suppliers are mainly located in Japan, Europe, and the United States, while downstream

consumption is dominated by China-based wafer producers.

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

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

Highlights and key features of the study

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

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

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

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

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

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

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

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

This report profiles key players in the global Tungsten Wire for Photovoltaic 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 Tungsten Wire for Photovoltaic 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 Tungsten Wire for Photovoltaic Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Tungsten Wire for Photovoltaic Market, Segmentation by Type:

Pure Tungsten Wire

Doped Tungsten Wire

Global Tungsten Wire for Photovoltaic Market, Segmentation by Diameter:

?38 ?m

28?38 ?m

?28 ?m

Global Tungsten Wire for Photovoltaic Market, Segmentation by Manufacturing Process:

Powder Metallurgy Drawn Tungsten Wire

Recrystallization Controlled Tungsten Wire

Multi-pass Precision Drawn Tungsten Wire

Other

Global Tungsten Wire for Photovoltaic 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 Tungsten Wire for Photovoltaic market?

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

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