

Global Copper Selenide Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Copper Selenide market size is expected to reach \$ 238 million by 2032, rising at a market growth of 8.1% CAGR during the forecast period (2026-2032).

Copper Selenide is a class of copper-selenium compound semiconductors widely used for thermoelectric materials, photovoltaics, optoelectronics, and conductive coatings due to its high electrical conductivity, tunable bandgap, and superionic transport properties. Its supply chain begins upstream with copper (sourced from sulfide ores via mining and refining) and selenium, which is primarily recovered as a byproduct of copper refining (anode slimes from electrolytic refining). In the midstream, copper selenide is synthesized through solid-state reactions, hydrothermal/solvothermal methods, or vapor-phase deposition depending on purity and morphology requirements (powder, thin film, nanostructure). Downstream, it is processed into thermoelectric modules, photovoltaic absorber layers (e.g., CIGS-related systems), infrared detectors, and advanced coatings. The industry is closely tied to the copper smelting ecosystem, with key production concentrated in regions with strong nonferrous metallurgy infrastructure such as China, Japan, Europe, and the United States. In 2025, global Copper Selenide output was about 7,000 tons with 9,000 tons of capacity, average prices of USD 15,000-40,000 per ton, and gross margins around 31%.

This report studies the global Copper Selenide production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Copper Selenide 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 Copper Selenide that contribute to

its increasing demand across many markets.

Highlights and key features of the study

Global Copper Selenide total production and demand, 2021-2032, (Tons)

Global Copper Selenide total production value, 2021-2032, (USD Million)

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

Global Copper Selenide consumption by region & country, CAGR, 2021-2032 & (Tons)

U.S. VS China: Copper Selenide domestic production, consumption, key domestic manufacturers and share

Global Copper Selenide production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Tons)

Global Copper Selenide production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Tons)

Global Copper Selenide production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Tons)

This report profiles key players in the global Copper Selenide 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 American Elements (USA), Ereztech (USA), Heeger Materials (USA), ALB Materials (USA), Vital Materials (China), Western Minmetals (China), Mitsubishi Materials (Japan), Watson International (UK), Heraeus Group (Germany), EVOCHEM Advanced Materials (Germany), 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 Copper Selenide 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 Copper Selenide Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Copper Selenide Market, Segmentation by Type:

Copper(I) Selenide

Copper(II) Selenide

Global Copper Selenide Market, Segmentation by Crystal Structure:

?-Copper Selenide

?-Copper Selenide

Global Copper Selenide Market, Segmentation by Application:

Thermoelectric Energy

Solar Energy

Electronic & Semiconductor

Optoelectronic

Others

Companies Profiled:

American Elements (USA)

Ereztech (USA)

Heeger Materials (USA)

ALB Materials (USA)

Vital Materials (China)

Western Minmetals (China)

Mitsubishi Materials (Japan)

Watson International (UK)

Heraeus Group (Germany)

EVOCHEM Advanced Materials (Germany)

Key Questions Answered:

1. How big is the global Copper Selenide market?
2. What is the demand of the global Copper Selenide market?
3. What is the year over year growth of the global Copper Selenide market?
4. What is the production and production value of the global Copper Selenide market?
5. Who are the key producers in the global Copper Selenide market?
6. What are the growth factors driving the market demand?

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