

Global Copper Selenide Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

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Abstracts

According to our (Global Info Research) latest study, the global Copper Selenide market size was valued at US\$ 138 million in 2025 and is forecast to a readjusted size of US\$ 238 million by 2032 with a CAGR of 8.1% during review period.

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 is a detailed and comprehensive analysis for global Copper Selenide market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and

product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

Key Features:

Global Copper Selenide market size and forecasts, in consumption value (\$ Million), sales quantity (Tons), and average selling prices (US\$/Ton), 2021-2032

Global Copper Selenide market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (Tons), and average selling prices (US\$/Ton), 2021-2032

Global Copper Selenide market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (Tons), and average selling prices (US\$/Ton), 2021-2032

Global Copper Selenide market shares of main players, shipments in revenue (\$ Million), sales quantity (Tons), and ASP (US\$/Ton), 2021-2026

The Primary Objectives in This Report Are:

To determine the size of the total market opportunity of global and key countries

To assess the growth potential for Copper Selenide

To forecast future growth in each product and end-use market

To assess competitive factors affecting the marketplace

This report profiles key players in the global Copper Selenide market based on the following parameters - company overview, sales quantity, revenue, 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.

Market Segmentation

Copper Selenide market is split by Type and by Application. For the period 2021-2032, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Type

Copper(I) Selenide

Copper(II) Selenide

Market segment by Crystal Structure

?-Copper Selenide

?-Copper Selenide

Market segment by Application

Thermoelectric Energy

Solar Energy

Electronic & Semiconductor

Optoelectronic

Others

Major players covered

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)

Market segment by region, regional analysis covers

North America (United States, Canada, and Mexico)

Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)

Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)

South America (Brazil, Argentina, Colombia, and Rest of South America)

Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

The content of the study subjects, includes a total of 15 chapters:

Chapter 1, to describe Copper Selenide product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Copper Selenide, with price, sales quantity, revenue, and global market share of Copper Selenide from 2021 to 2026.

Chapter 3, the Copper Selenide competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Copper Selenide breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2021 to 2032.

Chapter 5 and 6, to segment the sales by Type and by Application, with sales market share and growth rate by Type, by Application, from 2021 to 2032.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value, and market share for key countries in the world, from 2021 to 2026. and Copper Selenide market forecast, by regions, by Type, and by Application, with sales and revenue, from 2027 to 2032.

Chapter 12, market dynamics, drivers, restraints, trends, and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of Copper Selenide.

Chapter 14 and 15, to describe Copper Selenide sales channel, distributors, customers, research findings and conclusion.

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