

Global Elemental Selenium 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 Elemental Selenium market size was valued at US\$ 113 million in 2025 and is forecast to a readjusted size of US\$ 157 million by 2032 with a CAGR of 4.8% during review period.

Elemental selenium refers to commercially available selenium products in which selenium is present predominantly in its zero-valence elemental form. After recovery, refining, and shaping, the products are supplied as selenium powder, granules, pellets, shots, ingots, lumps, or other elemental forms. Elemental selenium is primarily recovered as a by-product of electrolytic copper refining from selenium-bearing anode slimes and is supplied in different purity grades according to its impurity content. Its major applications include metallurgy, glass manufacturing, agriculture and healthcare, electronics and photovoltaics, chemicals, and pigments. This report excludes crude selenium, selenium-bearing anode slimes and other metallurgical intermediates, as well as selenium dioxide, selenites, selenates, metal selenides, organic selenium, and other downstream selenium-containing products. Global elemental selenium production was approximately 4,380.28 metric tons in 2025, with an average ex-factory price of approximately US\$25.00 per kilogram.

Elemental selenium refers to commercially available selenium products in which selenium is predominantly present in its zero-valence elemental form after recovery, refining, and shaping. Major product forms include selenium powder, granules, pellets, ingots, and lumps. By purity, elemental selenium can be classified into three categories: Se <99.9%, 99.9% ≤ Se <99.99%, and Se ≥ 99.99%. This report excludes crude selenium, selenium-bearing anode slimes, and other metallurgical intermediates, as well as selenium dioxide, selenites, selenates, metal selenides, organic selenium, and other

downstream selenium-containing products. Elemental selenium has a strong by-product resource characteristic. It is primarily recovered from copper anode slimes generated during electrolytic copper refining, while a smaller proportion is obtained from lead, nickel, and other non-ferrous metal smelting processes. Industry supply is therefore closely related to electrolytic copper production, selenium content in copper concentrates, anode-slime processing capacity, recovery technologies, and the production schedules of smelting companies. As a result, selenium supply cannot be expanded solely in response to selenium demand and prices. Even when downstream demand grows rapidly, supply may remain constrained by upstream copper-smelting capacity and by-product recovery conditions. The upstream segment of the industry chain mainly comprises copper anode slimes, crude selenium, and other selenium-bearing metallurgical by-products. The midstream segment covers leaching, oxidation, reduction, distillation, vacuum purification, zone refining, and shaping processes such as crushing, granulation, and ingot casting. Major downstream applications include metallurgy, glass manufacturing, agriculture and healthcare, electronics and photovoltaics, chemicals, and pigments. In metallurgy, selenium is primarily used to improve the processing performance of steel, copper alloys, and other metallic materials. In glass manufacturing, it is used for decolorization and coloration. In agriculture and healthcare, elemental selenium is further processed into selenium-containing raw materials for animal feed, nutritional products, and pharmaceutical applications. Electronics and photovoltaic applications impose more stringent requirements on product purity, impurity control, and particle consistency. Industry competition is concentrated among large non-ferrous metal companies with copper-smelting resources and anode-slime recovery capabilities, as well as specialized materials companies with advanced high-purity refining and precision-shaping capabilities. Major suppliers include Vital Materials, Yunnan Copper Science & Technology Development, LS MnM, Mitsubishi Materials, Pan Pacific Copper, Sumitomo Metal Mining, Umicore, Nornickel, and RETORTE. Elemental selenium production capacity within large copper-smelting systems generally ranges from several tens to several hundreds of metric tons per year, while some leading suppliers have annual capacities of approximately 200–700 metric tons. High-purity selenium production lines are generally smaller in scale but have higher value added and greater customer-qualification barriers. Elemental selenium products are highly differentiated by specification. For industrial-grade and 3N-grade selenium, the principal competitive factors include feedstock stability, recovery efficiency, production scale, and delivery cost. High-purity selenium places greater emphasis on controlling impurities such as copper, lead, arsenic, tellurium, and iron, as well as particle size, morphological consistency, batch-to-batch stability, and qualification by electronic-material customers. Conventional selenium powder and ingots are relatively standardized, whereas high-

purity selenium granules, evaporation materials, and customized forms usually require lengthy customer validation, making supplier replacement more difficult. Gross margins vary significantly depending on feedstock sourcing, cost-allocation methods, product purity, and processing depth. Companies with integrated copper-smelting operations generally account for selenium as a by-product, allowing the cost of anode-slime feedstock to be allocated across gold, silver, tellurium, and other associated products. Gross margins for industrial-grade elemental selenium are generally estimated at approximately 10%–20%. Specialized processors that purchase crude selenium for further refining and shaping are more exposed to fluctuations in feedstock prices and processing fees. High-purity selenium, electronic-grade selenium, and customized granule products typically achieve gross margins of approximately 20%–40%, while certain ultra-high-purity and small-batch specialty products may generate higher margins. Key approaches to improving profitability include increasing selenium recovery from anode slimes, expanding high-purity product portfolios, optimizing by-product cost allocation, and increasing exposure to higher-value applications such as electronics, photovoltaics, and healthcare.

Report Scope

This report is a detailed and comprehensive analysis for global Elemental Selenium 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 Elemental Selenium market size and forecasts, in consumption value (\$ Million), sales quantity (Tons), and average selling prices (US\$/Kg), 2021-2032

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

Global Elemental Selenium market size and forecasts, by Type and by Application, in

consumption value (\$ Million), sales quantity (Tons), and average selling prices (US\$/Kg), 2021-2032

Global Elemental Selenium market shares of main players, shipments in revenue (\$ Million), sales quantity (Tons), and ASP (US\$/Kg), 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 Elemental Selenium

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 Elemental Selenium 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 First Rare Materials, Yunnan Copper Science & Technology Development, Jinchuan Group, LS MnM, Mitsubishi Materials Corporation, RETORTE, PPC, Umicore, Sumitomo Metal Mining, Ural Mining and Metallurgical Company, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Elemental Selenium 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 Segmentation

Market segment by Type

Selenium Powder

Selenium Granules and Pellets

Selenium Ingots and Lumps

Other Selenium Forms

Market segment by Purity

Se<99.9%

99.9%?Se<99.99%

Se?99.99%

Market segment by Sales Channel

Direct Sales

Distribution

Market segment by Application

Metallurgy

Agriculture and Healthcare

Glass Manufacturing

Electronics and Photovoltaics

Chemicals and Pigments

Others

Major players covered

First Rare Materials

Yunnan Copper Science & Technology Development

Jinchuan Group

LS MnM

Mitsubishi Materials Corporation

RETORTE

PPC

Umicore

Sumitomo Metal Mining

Ural Mining and Metallurgical Company

Southern Copper Corporation

Hefei Mengen Biotechnology

Kazakhmys Progress

Shinko Chemical

Coherent

Nornickel

KGHM Polska Mied?

Nippon Rare Metal

Boliden AB

Hindalco Industries

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)

Chapter Outline

Chapter 1, to describe Elemental Selenium product scope, market overview, market estimation caveats and base year.

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

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

Chapter 4, the Elemental Selenium 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 Elemental Selenium 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 Elemental Selenium.

Chapter 14 and 15, to describe Elemental Selenium sales channel, distributors, customers, research findings and conclusion.

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