

Global Tellurium-130 Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Tellurium-130 market size is expected to reach \$ million by 2032, rising at a market growth of %CAGR during the forecast period (2026-2032).

In 2025, global Tellurium-130 production was approximately 1,350 grams, with an average global market price of around \$6,500 per gram. Total global production capacity for Tellurium-130 reached approximately 2,000 grams in 2025, and the industry's average gross profit margin stood at about 45%. Tellurium-130 (^{130}Te) is a naturally occurring stable isotope of tellurium, belonging to the chalcogen element group with an atomic number of 52 and a mass number of 130. ^{130}Te accounts for approximately 34% of naturally occurring tellurium and is one of the most abundant tellurium isotopes. Although ^{130}Te is considered a stable isotope, it exhibits an extremely slow double beta decay process with a theoretical half-life exceeding 10^{26} years, making it an important candidate for fundamental nuclear physics research, particularly neutrinoless double beta decay ($0\nu\beta\beta$) experiments. Due to its relatively high natural abundance, favorable nuclear properties, and lower material cost compared with some alternative isotopes, ^{130}Te is widely studied for investigating neutrino mass, matter-antimatter asymmetry, and physics beyond the Standard Model. High-purity ^{130}Te materials are also used in telluride crystal detectors, cryogenic calorimeters, and highly sensitive radiation detection systems.

The upstream segment of the Tellurium-130 (^{130}Te) industry chain primarily encompasses tellurium resource supply, industrial tellurium extraction, high-purity tellurium preparation, and isotope enrichment technologies. Natural tellurium is mainly recovered as a byproduct of metal smelting (e.g., copper, lead, and nickel), typically extracted from anode slimes generated during copper electrolytic refining. Processes such as oxidation, reduction, and refining yield high-purity metallic tellurium suitable for

subsequent isotope separation. While the relatively high natural abundance of ^{130}Te makes enrichment less challenging compared to low-abundance nuclides, meeting the stringent requirements of nuclear physics experiments and detector applications still necessitates advanced separation techniques—such as centrifugation, electromagnetic separation, and chemical exchange—to produce high-abundance ^{130}Te materials. Upstream supply is influenced by tellurium ore resources, copper smelting capacity, and the capabilities of isotope separation equipment.

The midstream segment primarily involves ^{130}Te isotope enrichment, high-purity processing, chemical conversion, and the preparation of detector materials. Depending on specific application needs, ^{130}Te often requires high isotopic abundance and chemical purity to satisfy the demands of low-background nuclear physics experiments. Enriched ^{130}Te can be further processed into functional materials such as tellurium dioxide (TeO_2), cadmium telluride (CdTe), and cadmium zinc telluride (CdZnTe) for use in cryogenic calorimetric detectors and semiconductor radiation detectors. Notably, large-scale neutrinoless double-beta decay experiments like CUORE utilize high-purity TeO_2 crystals as the detection medium, imposing extremely rigorous standards on material purity, crystal quality, and impurity control. This segment presents significant technical barriers; global supply is concentrated among research institutions and specialized enterprises possessing capabilities in isotope separation and high-purity material preparation.

Downstream applications of Tellurium-130 are primarily concentrated in the fields of fundamental nuclear physics research, high-sensitivity radiation detection, and advanced scientific equipment. Among these applications, the neutrinoless double-beta decay experiment is one of the most significant uses for ^{130}Te ; studying this process allows researchers to investigate whether neutrinos possess Majorana properties and to uncover new physical phenomena beyond the Standard Model. Additionally, ^{130}Te is utilized in cryogenic detectors, dark matter detection experiments, nuclear radiation measurement systems, and high-energy physics experiments. As large-scale international scientific projects advance and research into neutrino properties, dark matter, and the origins of the universe deepens, the demand for high-purity ^{130}Te materials in scientific research is expected to continue growing.

Neutrinoless double beta decay ($0\nu\nu\beta\beta$) experiments represent one of the primary drivers for the development of tellurium-130. With relatively high natural abundance (approximately 34%), a favorable double beta decay energy window, and advantageous nuclear properties, ^{130}Te is considered an important candidate isotope for investigating neutrino mass and exploring physics beyond the Standard Model. In

recent years, the continuous advancement of large-scale international fundamental physics experiments has increased demand for highly enriched and high-purity ^{130}Te materials. In the future, as next-generation neutrino experiments expand and low-background detection technologies improve, the importance of ^{130}Te in fundamental physics research will continue to increase.

Beyond neutrino research, ^{130}Te also benefits from the development of advanced radiation detection technologies. High-purity ^{130}Te can be used in the production of tellurium dioxide (TeO_2) crystals, cadmium telluride (CdTe), and cadmium zinc telluride (CdZnTe) detector materials for cryogenic calorimeters, gamma-ray detectors, and highly sensitive radiation detection systems. With the growth of dark matter searches, high-energy physics experiments, nuclear medicine equipment, and space radiation monitoring technologies, demand for low-background and high-stability detector materials is increasing, creating new growth opportunities for ^{130}Te materials.

The development of the ^{130}Te industry relies heavily on isotope enrichment technologies, high-purity material processing capabilities, and supply chain stability. In recent years, improvements in isotope separation technologies such as centrifugation, electromagnetic separation, and chemical exchange have enhanced ^{130}Te enrichment efficiency and product purity. Meanwhile, advances in high-purity tellurium processing, crystal growth, and ultra-low impurity control have enabled ^{130}Te materials to meet the strict requirements of large-scale scientific projects. In the future, companies and research organizations with stable tellurium resources, advanced enrichment technologies, and high-purity material manufacturing capabilities will maintain competitive advantages.

Report Scope

This report studies the global Tellurium-130 production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Tellurium-130 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 Tellurium-130 that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Tellurium-130 total production and demand, 2021-2032, (Gram)

Global Tellurium-130 total production value, 2021-2032, (USD Million)

Global Tellurium-130 production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Gram), (based on production site)

Global Tellurium-130 consumption by region & country, CAGR, 2021-2032 & (Gram)

U.S. VS China: Tellurium-130 domestic production, consumption, key domestic manufacturers and share

Global Tellurium-130 production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Gram)

Global Tellurium-130 production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Gram)

Global Tellurium-130 production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Gram)

This report profiles key players in the global Tellurium-130 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 NIDC(DOE IP), Rosatom, Buyisotope(Neonest AB), Urenco, 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 Tellurium-130 market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (Gram) and average price (US\$/g) 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 Tellurium-130 Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Tellurium-130 Market, Segmentation by Type:

Metal Powder

Oxide

Global Tellurium-130 Market, Segmentation by Isotopic Abundance:

Natural abundance Tellurium-130

Low-enrichment Tellurium-130

High-enrichment Tellurium-130

Global Tellurium-130 Market, Segmentation by Preparation Source:

Natural Tellurium Purified

Isotope Enriched

Laboratory Preparation

Global Tellurium-130 Market, Segmentation by Purity Grade:

Industrial-grade Tellurium-130

High-purity Tellurium-130

Global Tellurium-130 Market, Segmentation by Application:

Nuclear Medicine

Scientific Research

Companies Profiled:

NIDC(DOE IP)

Rosatom

Buyisotope(Neonest AB)

Urenco

Key Questions Answered:

1. How big is the global Tellurium-130 market?
2. What is the demand of the global Tellurium-130 market?

3. What is the year over year growth of the global Tellurium-130 market?
4. What is the production and production value of the global Tellurium-130 market?
5. Who are the key producers in the global Tellurium-130 market?
6. What are the growth factors driving the market demand?

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