

Global Xenon-132 Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Xenon-132 market size is expected to reach \$ 28.09 million by 2032, rising at a market growth of 6.9% CAGR during the forecast period (2026-2032).

In 2025, global production of xenon-132 reached 1,159 liters, with an average selling price of US\$11,000 per liter. The global annual production capacity of xenon-132 is approximately 1,900 liters, and the gross profit margin is about 35.2%. Xenon-132 (^{132}Xe) is a stable isotope of the element xenon, with a nucleus composed of 54 protons and 78 neutrons. Its natural abundance is about 26.89%, which is the highest among the nine stable isotopes of xenon. It is mainly produced through nuclear fission reactions and is one of the important fission products of thermal neutron fission of uranium-235 and plutonium-239, and has monitoring significance in nuclear reactor operation and nuclear fuel reprocessing. In addition, xenon-132 is often used as a target material or tracer in nuclear physics research, and is also used for studying nuclear reaction mechanisms and isotope separation techniques. The upstream of the xenon-132 industry chain includes xenon gas, centrifuges, and xenon purification equipment, among others. The midstream consists of xenon-132 manufacturers, while the downstream is mainly applied in industries such as geochemistry and scientific research, medical and imaging, etc.

Currently, the global xenon-132 market is showing a steady growth trend, with demand primarily driven by continuous advancements in nuclear physics research, geochemical tracer applications, and medical imaging technologies. As the most abundant stable isotope of xenon, xenon-132 plays an irreplaceable role in nuclear energy-related studies, such as reactor operation monitoring and nuclear fuel reprocessing analysis, while its applications as a target material and tracer are also expanding. In the medical field, with deeper exploration into the use of stable isotopes in diagnostics and imaging

technologies, the potential value of xenon-132 is gradually gaining attention. On the supply side, production of xenon-132 relies on highly sophisticated isotope separation technologies and strict quality control systems, resulting in high entry barriers and limited overall production capacity, maintaining a tight supply-demand balance. On the technological front, continuous improvements in purification processes and separation efficiency are driving product quality enhancements and creating conditions for diversified application scenarios. Downstream applications are extending from traditional nuclear physics and earth sciences to emerging directions such as environmental monitoring and biomedicine. Overall, the xenon-132 market is in a development phase of transitioning from specialized research to broader practical applications, with considerable growth potential for the future.

Report Scope

This report studies the global Xenon-132 production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Xenon-132 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 Xenon-132 that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Xenon-132 total production and demand, 2021-2032, (L)

Global Xenon-132 total production value, 2021-2032, (USD Million)

Global Xenon-132 production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (L), (based on production site)

Global Xenon-132 consumption by region & country, CAGR, 2021-2032 & (L)

U.S. VS China: Xenon-132 domestic production, consumption, key domestic manufacturers and share

Global Xenon-132 production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (L)

Global Xenon-132 production by Type, production, value, CAGR, 2021-2032, (USD Million) & (L)

Global Xenon-132 production by Application, production, value, CAGR, 2021-2032, (USD Million) & (L)

This report profiles key players in the global Xenon-132 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 Rosatom, Orano, Urenco, Isoflex, Cambridge Isotope Laboratories, China National Nuclear Corporation, Shanglan Helium, 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 Xenon-132 market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (L) and average price (US\$/L) 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 Xenon-132 Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Market Segmentation

Global Xenon-132 Market, Segmentation by Type:

Compressed Gas

Liquefied Gas

Global Xenon-132 Market, Segmentation by Chemical Purity:

3N

4N

5N

Global Xenon-132 Market, Segmentation by Packaging Specifications:

Ampoule

Small Cylinder

High-pressure Cylinder

Global Xenon-132 Market, Segmentation by Application:

Geochemistry And Scientific Research

Medical And Imaging

Lighting And Specialty Light Sources

Others

Companies Profiled:

Rosatom

Orano

Urenco

Isoflex

Cambridge Isotope Laboratories

China National Nuclear Corporation

Shanglan Helium

Key Questions Answered:

1. How big is the global Xenon-132 market?
2. What is the demand of the global Xenon-132 market?
3. What is the year over year growth of the global Xenon-132 market?
4. What is the production and production value of the global Xenon-132 market?
5. Who are the key producers in the global Xenon-132 market?
6. What are the growth factors driving the market demand?

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