

Global Xenon-134 Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Xenon-134 market size is expected to reach \$ 32.12 million by 2032, rising at a market growth of 5.6% CAGR during the forecast period (2026-2032).

In 2025, global production of xenon-134 reached 2,300 litres, with an average selling price of 7,500 USD per litre. The global annual production capacity of xenon-134 is approximately 3,540 litres, and the gross margin is about 33.5%. Xenon-134 is a stable isotope of the element xenon, with a nucleus consisting of 54 protons and 80 neutrons, and a mass number of 134. It is one of the seven naturally occurring stable isotopes of xenon, with a natural abundance of about 10.4%, making it a relatively abundant stable isotope of xenon. The scientific value of xenon-134 is mainly reflected in two aspects: on the one hand, it may serve as a decay product in double-beta decay processes and as a background source in related experiments, drawing attention in particle physics research; on the other hand, it is a commonly used noble gas tracer, applicable to nuclear reactor burnup monitoring, source tracing of nuclear accident emissions, and studying gas migration behaviour in multi-phase systems such as the atmosphere and groundwater. In addition, xenon-134 is frequently used as a calibration reference in mass spectrometry, and its abundance data are also of great significance for understanding Earth's internal processes and the early isotopic evolution of xenon in the solar system. The upstream of xenon-134 includes xenon gas, centrifuges, and xenon purification equipment. The midstream consists of xenon-134 manufacturers, while the downstream is primarily applied in nuclear physics and scientific research, medical support, and industrial and calibration applications.

Currently, the xenon-134 market is in a state of steady development, with its main applications concentrated in nuclear physics experiments, detector calibration, medical imaging research, and materials science. Because xenon-134 has a low natural

abundance and its extraction involves complex gas separation and enrichment technologies, production capacity is somewhat constrained. At the same time, downstream users, primarily research institutes, nuclear industry entities, and high-end medical equipment manufacturers, have stringent requirements for purity and stability, and market transactions are typically based on long-term contracts, resulting in relatively stable prices. Furthermore, with the expansion of nuclear technology applications and advances in frontier fields such as quantum science, demand for xenon-134 is expected to grow steadily, but supply flexibility is limited, and the overall market is characterized by a tight balance between supply and demand.

Report Scope

This report studies the global Xenon-134 production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Xenon-134 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-134 that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Xenon-134 total production and demand, 2021-2032, (L)

Global Xenon-134 total production value, 2021-2032, (USD Million)

Global Xenon-134 production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (L), (based on production site)

Global Xenon-134 consumption by region & country, CAGR, 2021-2032 & (L)

U.S. VS China: Xenon-134 domestic production, consumption, key domestic manufacturers and share

Global Xenon-134 production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (L)

Global Xenon-134 production by Type, production, value, CAGR, 2021-2032, (USD Million) & (L)

Global Xenon-134 production by Application, production, value, CAGR, 2021-2032, (USD Million) & (L)

This report profiles key players in the global Xenon-134 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, 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-134 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-134 Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Market Segmentation

Global Xenon-134 Market, Segmentation by Type:

Compressed Gas

Liquefied Gas

Global Xenon-134 Market, Segmentation by Chemical Purity:

3N

4N

5N

Global Xenon-134 Market, Segmentation by Packaging Specifications:

Ampoule

Small Cylinder

High-pressure Cylinder

Global Xenon-134 Market, Segmentation by Application:

Nuclear Physics and Scientific Research

Medical Support

Industrial and Calibration

Others

Companies Profiled:

Rosatom

Orano

Urenco

Isoflex

Cambridge Isotope Laboratories

China National Nuclear Corporation

Key Questions Answered

1. How big is the global Xenon-134 market?
2. What is the demand of the global Xenon-134 market?
3. What is the year over year growth of the global Xenon-134 market?
4. What is the total value of the global Xenon-134 market?
5. Who are the Major Players in the global Xenon-134 market?
6. What are the growth factors driving the market demand?

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