

Global Helium 3 Market 2024 by Manufacturers, Regions, Type and Application, Forecast to 2030

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Abstracts

According to our (Global Info Research) latest study, the global Helium 3 market size was valued at USD 6 million in 2023 and is forecast to a readjusted size of USD 50 million by 2030 with a CAGR of 34.8% during review period.

Helium 3 is a light, stable isotope of helium with the chemical symbol ${}^3\text{He}$. Its nucleus consists of two protons and one neutron, which are stable isotopes. Its abundance is generally above 99%, is colorless, odorless and stable gas, generally stored in high pressure cylinders.

At present, there are only two sources of helium-3 on the Earth, one source is 'born' on the Earth, but the proportion is small, only about 0.000137%, and has not been exploited. The other source is a by-product of nuclear weapons, formed when tritium occurs radioactive decay, the required process is complex, the technical level is high, and only about 15 kg per year can be used. Since the increase in global terrorist attacks, countries have paid attention to national defense construction, a large number of countries deploy neutron detectors, the demand for helium 3 has been rising. At present, the Earth's existing helium 3 is far from enough to meet the current demand.

As we all know, the extraction of helium 3 is not only a political and diplomatic victory, but also a military and economic victory. With the progress of science and technology, more and more countries are aiming at the moon. The amount found in natural stores on the Moon is 100 million times higher than it is on Earth, and helium-3, encased in the moon's gray regolith, could become the most precious and contested substance for mankind in the 23rd century. It has become a catalyst for a new wave of lunar colonization, offering the prospect of fusion energy generation to solve Earth's energy problems once and for all. Mining to the moon will become a big trend in the future.

Global key players of helium 3 include Rosatom, Chemgas, etc. The top two players hold a share about 93%. The largest market is Asia-Pacific, with a share about 55%. In terms of product type, ?99.99% is the largest segment, occupied for a share of about 65%, and in terms of application, Helium 3 Neutron Detector has a share about 30 percent.

The Global Info Research report includes an overview of the development of the Helium 3 industry chain, the market status of Helium 3 Neutron Detector (?99.99%, ?99.99%), Dilution Chiller (?99.99%, ?99.99%), and key enterprises in developed and developing market, and analysed the cutting-edge technology, patent, hot applications and market trends of Helium 3.

Regionally, the report analyzes the Helium 3 markets in key regions. North America and Europe are experiencing steady growth, driven by government initiatives and increasing consumer awareness. Asia-Pacific, particularly China, leads the global Helium 3 market, with robust domestic demand, supportive policies, and a strong manufacturing base.

Key Features:

The report presents comprehensive understanding of the Helium 3 market. It provides a holistic view of the industry, as well as detailed insights into individual components and stakeholders. The report analysis market dynamics, trends, challenges, and opportunities within the Helium 3 industry.

The report involves analyzing the market at a macro level:

Market Sizing and Segmentation: Report collect data on the overall market size, including the sales quantity (L), revenue generated, and market share of different by Purity (e.g., ?99.99%, ?99.99%).

Industry Analysis: Report analyse the broader industry trends, such as government policies and regulations, technological advancements, consumer preferences, and market dynamics. This analysis helps in understanding the key drivers and challenges influencing the Helium 3 market.

Regional Analysis: The report involves examining the Helium 3 market at a regional or national level. Report analyses regional factors such as government incentives, infrastructure development, economic conditions, and consumer behaviour to identify

variations and opportunities within different markets.

Market Projections: Report covers the gathered data and analysis to make future projections and forecasts for the Helium 3 market. This may include estimating market growth rates, predicting market demand, and identifying emerging trends.

The report also involves a more granular approach to Helium 3:

Company Analysis: Report covers individual Helium 3 manufacturers, suppliers, and other relevant industry players. This analysis includes studying their financial performance, market positioning, product portfolios, partnerships, and strategies.

Consumer Analysis: Report covers data on consumer behaviour, preferences, and attitudes towards Helium 3. This may involve surveys, interviews, and analysis of consumer reviews and feedback from different by Application (Helium 3 Neutron Detector, Dilution Chiller).

Technology Analysis: Report covers specific technologies relevant to Helium 3. It assesses the current state, advancements, and potential future developments in Helium 3 areas.

Competitive Landscape: By analyzing individual companies, suppliers, and consumers, the report presents insights into the competitive landscape of the Helium 3 market. This analysis helps understand market share, competitive advantages, and potential areas for differentiation among industry players.

Market Validation: The report involves validating findings and projections through primary research, such as surveys, interviews, and focus groups.

Market Segmentation

Helium 3 market is split by Purity and by Application. For the period 2019-2030, the growth among segments provides accurate calculations and forecasts for consumption value by Purity, and by Application in terms of volume and value.

Market segment by Purity

?99.99%

?99.99%

Market segment by Application

Helium 3 Neutron Detector

Dilution Chiller

Medical Imaging

Nuclear Magnetic Resonance (Cryogenic Superconductivity)

Nuclear Fusion Research

Others

Major players covered

Rosatom

Chemgas

Savannah River Site (SRS)

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 Helium 3 product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Helium 3, with price, sales, revenue and global market share of Helium 3 from 2019 to 2024.

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

Chapter 4, the Helium 3 breakdown data are shown at the regional level, to show the sales quantity, consumption value and growth by regions, from 2019 to 2030.

Chapter 5 and 6, to segment the sales by Purity and application, with sales market share and growth rate by purity, application, from 2019 to 2030.

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 2017 to 2023. and Helium 3 market forecast, by regions, purity and application, with sales and revenue, from 2025 to 2030.

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 Helium 3.

Chapter 14 and 15, to describe Helium 3 sales channel, distributors, customers, research findings and conclusion.

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