

Global Chromium-51 Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Chromium-51 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 production of Chromium-51 was approximately 420 grams, with an average global market price of approximately US\$5,500 per gram. Total global production capacity of Chromium-51 reached approximately 600 grams in 2025. The industry average gross margin for this product was approximately 55%. Chromium-51 (^{51}Cr) is an artificially produced radioactive isotope of chromium with an atomic number of 24 and a mass number of 51. Unlike naturally occurring stable chromium isotopes (^{50}Cr , ^{52}Cr , ^{53}Cr , and ^{54}Cr), Chromium-51 is mainly produced through nuclear reactions, such as neutron activation of Chromium-50 (^{50}Cr) targets via the $^{50}\text{Cr}(n,\gamma)^{51}\text{Cr}$ reaction. With a half-life of approximately 27.7 days, Chromium-51 undergoes electron capture decay and emits characteristic gamma radiation at around 320 keV, making it valuable in medical research, life sciences, hematology, immunology, cell tracing, and nuclear technology applications. Due to its ability to bind with red blood cells, proteins, and cellular components, Chromium-51 has been widely used for red blood cell survival studies, cell labeling, pharmacokinetic research, and biomedical tracing, becoming one of the more established radionuclides in nuclear medicine and life science research.

The upstream segment of the Chromium-51 industry mainly includes stable chromium isotope materials, high-purity chromium targets, nuclear reaction facilities, and radiochemical reagent suppliers. Production of Chromium-51 generally requires high-purity Chromium-50 (^{50}Cr) or natural chromium materials, which are irradiated through research reactor neutron activation or other nuclear reactions, followed by radiochemical separation, purification, and activity measurement. Key upstream

technologies include stable isotope enrichment, target preparation, neutron irradiation capabilities, and radioactive impurity control. Due to requirements related to nuclear facility operation licenses, radioactive material management, and specialized expertise, stable Chromium-51 production capability is mainly concentrated in countries and regions with research reactors, isotope production platforms, and nuclear medicine supply systems. The midstream segment mainly covers radionuclide production, radiochemical separation, purification, quality testing, labeling reagent preparation, and specialized packaging and transportation services. Depending on application requirements, suppliers provide Chromium-51 in different chemical forms, including Chromium-51 chloride ($^{51}\text{CrCl}_3$), chromate forms, and other labeled compounds. Chromium-51 labeled red blood cell products represent one of the most established applications, supporting hematology research and cell survival studies. Due to its half-life of approximately 27.7 days, midstream suppliers need reliable production scheduling, activity calibration capabilities, and compliant radioactive transportation systems. Key value-added capabilities include radiochemical purity control, labeling efficiency improvement, quality traceability, and customized scientific services. The downstream applications of Chromium-51 mainly include life science research, medical studies, hematology testing, immunology research, and fundamental nuclear medicine applications. Its most recognized application is as a red blood cell labeling isotope for measuring red blood cell lifespan, blood volume, and cellular circulation processes. It is also used in studies of cell migration, immune cell functions, and interactions between drugs and biological molecules. In addition, Chromium-51 is applied in radioactive tracing experiments, protein labeling, and biomedical research. In the future, with continued advances in precision medicine, cell therapy, immunotherapy, and biological mechanism studies, demand for high-quality radioactive tracer isotopes is expected to remain stable, supporting a small-volume, high-value market structure for Chromium-51.

The primary growth drivers of the Chromium-51 industry come from the continued demand for life science research, medical studies, and radioactive tracing technologies. With a half-life of approximately 27.7 days and stable gamma-ray emission characteristics, Chromium-51 can be used to label red blood cells, membrane proteins, and biological molecules for long-term tracing applications. As a result, it has been widely used in red blood cell survival measurement, blood volume analysis, cell migration studies, and immunology experiments. With the advancement of precision medicine, cell biology, immunotherapy, and disease mechanism research, demand for high-quality radioactive tracer isotopes from research institutions and medical centers continues to increase, supporting stable market demand for Chromium-51.

Advances in radioactive isotope production technologies and improvements in nuclear

research infrastructure are important factors supporting the development of Chromium-51. Chromium-51 is mainly produced through neutron activation of Chromium-50 (^{50}Cr) targets, and its supply capability depends on high-purity target preparation, research reactor availability, radiochemical separation technologies, and quality control systems. In recent years, global isotope production platforms have continued to improve, while research reactor efficiency, automated radiochemical processing, precision activity measurement, and standardized quality management systems have enhanced the purity, stability, and supply reliability of Chromium-51 products.

In the future, the Chromium-51 industry is expected to develop toward stable scientific demand, specialized applications, and professional research services. Although some traditional applications may face competition from emerging fluorescence labeling technologies and alternative tracing methods, Chromium-51 maintains unique advantages in red blood cell kinetics studies, immune cell analysis, and long-term biological process tracking. Future growth opportunities will mainly come from cell therapy research, immunology studies, drug delivery mechanism analysis, and advanced biological process evaluation. High-purity, high-specific-activity, and customized Chromium-51 products are expected to become important areas of supplier competition.

This report studies the global Chromium-51 production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Chromium-51 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 Chromium-51 that contribute to its increasing demand across many markets.

Highlights and key features of the study

- Global Chromium-51 total production and demand, 2021-2032, (Gram)
- Global Chromium-51 total production value, 2021-2032, (USD Million)
- Global Chromium-51 production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Gram), (based on production site)
- Global Chromium-51 consumption by region & country, CAGR, 2021-2032 & (Gram)
- U.S. VS China: Chromium-51 domestic production, consumption, key domestic manufacturers and share

Global Chromium-51 production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Gram)

Global Chromium-51 production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Gram)

Global Chromium-51 production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Gram)

This report profiles key players in the global Chromium-51 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, NIDC(DOE IP), ANSTO, Buyisotope(Neonest AB), 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 Chromium-51 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 Chromium-51 Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Chromium-51 Market, Segmentation by Type:

Activity Concentration?10mCi/mL

Activity Concentration?10mCi/mL

Global Chromium-51 Market, Segmentation by Form:

Solution

Solid

Global Chromium-51 Market, Segmentation by Production Technology Route:

Chromium-50 Neutron-Activated Production

Accelerator-produced Chromium-51

Reactor-based Production

Global Chromium-51 Market, Segmentation by Radiochemical Purity:

General Research Grade

High Purity Grade

Global Chromium-51 Market, Segmentation by Application:

Radiopharmaceutical Agent

Scientific Research

Companies Profiled:

Rosatom

NIDC(DOE IP)

ANSTO

Buyisotope(Neonest AB)

Key Questions Answered:

1. How big is the global Chromium-51 market?
2. What is the demand of the global Chromium-51 market?
3. What is the year over year growth of the global Chromium-51 market?
4. What is the production and production value of the global Chromium-51 market?
5. Who are the key producers in the global Chromium-51 market?
6. What are the growth factors driving the market demand?

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