

Global Iron-52 Supply, Demand and Key Producers, 2026-2032

<https://marketpublishers.com/r/GF6ADC0456B7EN.html>

Date: September 2026

Pages: 80

Price: US\$ 4,480.00 (Single User License)

ID: GF6ADC0456B7EN

Abstracts

The global Iron-52 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 Iron-52 production is approximately 173 grams, with the global average market price equating to about \$64,000 per gram. That year, total global production capacity for Iron-52 reaches approximately 450 grams, and the industry's average gross profit margin is around 26%. Iron-52 is an artificial radioisotope of iron with an atomic number of 26 and a mass number of 52. It has a half-life of approximately 8.3 hours and decays primarily via electron capture and positron emission, yielding manganese-52m (which has a half-life of about 21 minutes). Due to its positron-emitting properties, Iron-52 is suitable for use in Positron Emission Tomography (PET); furthermore, as its chemical behavior closely mirrors that of stable iron, it serves as a radiotracer for studying human iron metabolism, transferrin transport, bone marrow hematopoiesis, erythropoiesis, and iron distribution within the liver, spleen, and brain. Iron-52 is typically utilized in scientific research—often in the form of iron(III) chloride, iron citrate, or labeled iron compounds—rather than as a standard commercial PET radionuclide.

The upstream segment of the industry chain primarily encompasses medium-to-high-energy cyclotrons, proton or helium ion beam systems, nuclear reaction targets, target stations, radiation shielding facilities, and radiochemical separation equipment. Iron-52 is produced through specific nuclear reactions involving the bombardment of targets—such as manganese, chromium, or nickel—with protons or other charged particles; the choice of production route requires balancing factors such as yield, impurity radionuclides, target material costs, and available accelerator energy. Following production, the target material must be rapidly transferred to a hot cell, where Iron-52 is separated from manganese, chromium, cobalt, and other metallic impurities.

using techniques such as ion exchange, solvent extraction, or chromatography. Given Iron-52's short half-life, upstream production is characterized by regional localization, typically relying on cyclotrons situated at universities, national laboratories, or large hospitals; key barriers to entry include optimizing beam energy, target preparation, controlling radioactive impurities, and mastering remote automated operational capabilities. The midstream segment consists mainly of radioisotope laboratories, nuclear medicine research institutions, and hospital radiopharmacies, which are responsible for the rapid separation and purification of Iron-52 from irradiated targets and its formulation into chemical forms suitable for biological research. Typical products include Iron-52 citrate, Iron-52 transferrin, and Iron-52-labeled intravenous iron preparations. The midstream sector requires control over nuclide purity, radiochemical purity, specific activity, pH value, metal impurities, sterility, and endotoxin levels, as well as management of the impact of the daughter nuclide manganese-52m on PET quantification. Given iron's strong biological binding properties, the formulation must ensure that Iron-52 binds effectively to transferrin or the target iron agent without altering its pharmacokinetics due to the preparation process. Clinical studies have utilized Iron-52-labeled iron sucrose and iron-polysaccharide complexes to observe their distribution and utilization in the liver, spleen, bone marrow, and erythrocytes. The downstream sector of the industry chain primarily comprises nuclear medicine centers, hematology research institutions, neuroscience laboratories, pharmaceutical R&D companies, and medical research units. Iron-52 can be used to study iron-deficiency anemia, abnormal iron loading, bone marrow hematopoiesis, the distribution of intravenous iron agents, and erythrocyte iron utilization rates; it also enables the observation of iron uptake in the liver, spleen, bone marrow, and brain tissue. Clinical research has employed Iron-52 citrate PET to assess cerebral iron uptake in patients with Wilson's disease and utilized dual-tracer techniques with Iron-52 and Iron-59 to monitor the early distribution and long-term erythrocyte utilization of injected iron agents. However, the application of Iron-52 remains largely confined to scientific research and small-scale clinical studies; factors such as limited production facilities, a short half-life, interference from daughter nuclides, a lack of formulation standardization, and competition from established PET nuclides have hindered the development of a mature commercial supply market.

The need for research into iron metabolism-related disorders is the primary driver behind the continued development of Iron-52. Iron plays a crucial role in hemoglobin synthesis, oxygen transport, cellular energy metabolism, and various enzymatic reactions; abnormalities in its absorption, transport, storage, and utilization are linked to conditions such as iron-deficiency anemia, iron overload, hematopoietic dysfunction, and certain neurological diseases. Iron-52 exhibits biochemical behavior virtually

identical to that of stable iron while also serving as a PET tracer, enabling the direct observation of the dynamic distribution of iron from serum transferrin to the liver, spleen, bone marrow, and other tissues. Previous human studies have utilized Iron-52 citrate to assess cerebral iron uptake in patients with Wilson's disease and employed Iron-52-labeled intravenous iron agents to track their utilization in the liver, spleen, bone marrow, and erythrocytes, demonstrating its irreplaceable value in investigating iron metabolism mechanisms and evaluating therapeutic agents.

The development of intravenous iron agents and hematological drugs offers clear potential applications for Iron-52. As intravenous iron agents are increasingly used to treat iron-deficiency anemia, chronic kidney disease, and other iron-deficiency-related conditions, researchers need to evaluate the rates and efficiency with which different iron complexes enter the reticuloendothelial system, bone marrow, and circulating erythrocytes. Iron-52 can directly label formulations such as iron sucrose and iron-polysaccharide complexes; PET imaging allows for the assessment of early organ distribution, while long-term studies on erythrocyte utilization facilitate the evaluation of pharmacokinetics, safety, and differences between formulations. In the future, Iron-52 is likely to serve primarily as a high-value tool for drug development rather than as a radionuclide for large-scale routine diagnostics; demand will stem largely from research into innovative iron agents, hematopoietic drugs, nutritional metabolism, and precision hematology.

Trends in production technology will focus on increasing yields, minimizing impurities, and achieving automated, rapid separation. Iron-52 is a non-conventional positron-emitting radionuclide produced via cyclotrons using enriched targets and charged-particle nuclear reactions; however, its production is constrained by factors such as accelerator energy, the cost of enriched targets, nuclear reaction cross-sections, and the control of long-lived impurities like Iron-55. The IAEA has included Iron-52 in its technical documentation regarding cyclotron-produced radionuclides and alternative production technologies; ongoing research is exploring various target materials and nuclear reaction pathways to enhance production yields and radionuclide purity. Future technological developments will focus on the recovery of enriched target materials, sealed target stations, remote hot-cell operations, automated chromatographic separation, and rapid quality control—measures designed to minimize the time between the end of irradiation and product administration, while also reducing radiation exposure for personnel.

Report Scope

This report studies the global Iron-52 production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Iron-52 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 Iron-52 that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Iron-52 total production and demand, 2021-2032, (Gram)

Global Iron-52 total production value, 2021-2032, (USD Million)

Global Iron-52 production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Gram), (based on production site)

Global Iron-52 consumption by region & country, CAGR, 2021-2032 & (Gram)

U.S. VS China: Iron-52 domestic production, consumption, key domestic manufacturers and share

Global Iron-52 production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Gram)

Global Iron-52 production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Gram)

Global Iron-52 production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Gram)

This report profiles key players in the global Iron-52 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), Eckert & Ziegler, IAEA, 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 Iron-52 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 Iron-52 Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Market Segmentation

Global Iron-52 Market, Segmentation by Type:

Purity: >99%

Purity: >98%

Global Iron-52 Market, Segmentation by Product Form:

Unlabeled Iron-52 Nuclide

Iron-52 Compound

Iron-52/Manganese-52m Generator

Global Iron-52 Market, Segmentation by Production Route:

Alpha-particle Bombardment of a Chromium-50 Target

Proton Bombardment of a Manganese Target

Proton Reaction with a Nickel Target

Global Iron-52 Market, Segmentation by Radionuclide Quality Grade:

Research-grade Radionuclide

Preclinical Drug-grade Radionuclide

Global Iron-52 Market, Segmentation by Application:

Nuclear Medicine

Environmental Research

Others

Companies Profiled:

NIDC(DOE IP)

Eckert & Ziegler

IAEA

Key Questions Answered

1. How big is the global Iron-52 market?
2. What is the demand of the global Iron-52 market?
3. What is the year over year growth of the global Iron-52 market?
4. What is the total value of the global Iron-52 market?
5. Who are the Major Players in the global Iron-52 market?
6. What are the growth factors driving the market demand?

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