

Global Nickel-63 Market Research Report 2024(Status and Outlook)

<https://marketpublishers.com/r/G4DABCADE3C7EN.html>

Date: December 2024

Pages: 129

Price: US\$ 2,800.00 (Single User License)

ID: G4DABCADE3C7EN

Abstracts

Report Overview

Nickel-63, a radioactive isotope of nickel, plays a crucial role in various industries, including healthcare, research, and nuclear power. With a half-life of 100.1 years, Nickel-63 is primarily used in batteries, sensors, and radiation detection devices due to its stable and predictable decay properties. Its market positioning is unique, offering a balance between energy density and safety, making it a preferred choice in applications requiring long-term power sources.

The current market size for Nickel-63 in 2023 stands at approximately USD 45 million. Looking ahead, the projected Compound Annual Growth Rate (CAGR) from 2024 to 2032 is estimated at 5.78%, driven by increasing demand in the healthcare sector for radiation therapy and diagnostics, as well as the growing adoption of Nickel-63 in industrial applications for precise measurements and monitoring.

Several key growth drivers and market forces underpin the expansion of the Nickel-63 market. The rising prevalence of cancer worldwide is propelling the demand for radiation therapy, where Nickel-63 plays a vital role in ensuring accurate dosage delivery. Moreover, the expanding use of Nickel-63 in oil and gas exploration for well logging applications is further fueling market growth.

Market trends in the Nickel-63 industry are notable for their impact on market dynamics. One prominent trend is the shift towards miniaturization and increased efficiency in battery technologies, where Nickel-63 is gaining traction for its compact size and long-lasting power supply. Additionally, advancements in sensor technologies leveraging Nickel-63 for radiation detection are enhancing safety measures in various industries,

driving further market penetration.

In terms of regional market distribution, leading markets for Nickel-63 include North America, Europe, and Asia Pacific. North America dominates the market due to the presence of key players, robust healthcare infrastructure, and significant investments in research and development. Europe follows closely, driven by stringent safety regulations and the widespread adoption of Nickel-63 in industrial applications. Asia Pacific is emerging as a lucrative market, propelled by rapid industrialization and increasing healthcare expenditure.

Despite its promising growth prospects, the Nickel-63 market faces challenges such as regulatory hurdles related to radioactive materials, safety concerns, and the need for specialized handling and disposal procedures. Overcoming these challenges will require industry stakeholders to invest in stringent safety protocols, regulatory compliance, and public awareness campaigns to ensure responsible use of Nickel-63 in various applications.

In conclusion, the Nickel-63 market is poised for steady growth driven by increasing demand in healthcare, industrial, and research sectors. By capitalizing on key growth drivers, monitoring market trends, and addressing challenges effectively, industry players can harness the full potential of Nickel-63 and capitalize on emerging opportunities in the market.

This report provides a deep insight into the global Nickel-63 market covering all its essential aspects. This ranges from a macro overview of the market to micro details of the market size, competitive landscape, development trend, niche market, key market drivers and challenges, SWOT analysis, value chain analysis, etc.

The analysis helps the reader to shape the competition within the industries and strategies for the competitive environment to enhance the potential profit. Furthermore, it provides a simple framework for evaluating and accessing the position of the business organization. The report structure also focuses on the competitive landscape of the Global Nickel-63 Market, this report introduces in detail the market share, market performance, product situation, operation situation, etc. of the main players, which helps the readers in the industry to identify the main competitors and deeply understand the competition pattern of the market.

In a word, this report is a must-read for industry players, investors, researchers, consultants, business strategists, and all those who have any kind of stake or are

planning to foray into the Nickel-63 market in any manner.

Global Nickel-63 Market: Market Segmentation Analysis

The research report includes specific segments by region (country), manufacturers, Type, and Application. Market segmentation creates subsets of a market based on product type, end-user or application, Geographic, and other factors. By understanding the market segments, the decision-maker can leverage this targeting in the product, sales, and marketing strategies. Market segments can power your product development cycles by informing how you create product offerings for different segments.

Key Company

ORNL

Columbia Tech

Atomic Hi-Tech Co.

Ltd.

Market Segmentation (by Type)

1?10Bq-1.5?10Bq

1.5?10Bq-2?10Bq

Market Segmentation (by Application)

Ionization Smoke Detector

Electron Tube Ionization Source

Electron Capture Probe

Chromatography Electron trap

Other

Geographic Segmentation

North America (USA, Canada, Mexico)

Europe (Germany, UK, France, Russia, Italy, Rest of Europe)

Asia-Pacific (China, Japan, South Korea, India, Southeast Asia, Rest of Asia-Pacific)

South America (Brazil, Argentina, Columbia, Rest of South America)

The Middle East and Africa (Saudi Arabia, UAE, Egypt, Nigeria, South Africa, Rest of MEA)

Key Benefits of This Market Research:

Industry drivers, restraints, and opportunities covered in the study

Neutral perspective on the market performance

Recent industry trends and developments

Competitive landscape & strategies of key players

Potential & niche segments and regions exhibiting promising growth covered

Historical, current, and projected market size, in terms of value

In-depth analysis of the Nickel-63 Market

Overview of the regional outlook of the Nickel-63 Market:

Key Reasons to Buy this Report:

Access to date statistics compiled by our researchers. These provide you with historical and forecast data, which is analyzed to tell you why your market is set to change

This enables you to anticipate market changes to remain ahead of your competitors

You will be able to copy data from the Excel spreadsheet straight into your marketing plans, business presentations, or other strategic documents

The concise analysis, clear graph, and table format will enable you to pinpoint the information you require quickly

Provision of market value (USD Billion) data for each segment and sub-segment

Indicates the region and segment that is expected to witness the fastest growth as well as to dominate the market

Analysis by geography highlighting the consumption of the product/service in the region as well as indicating the factors that are affecting the market within each region

Competitive landscape which incorporates the market ranking of the major players, along with new service/product launches, partnerships, business expansions, and acquisitions in the past five years of companies profiled

Extensive company profiles comprising of company overview, company insights, product benchmarking, and SWOT analysis for the major market players

The current as well as the future market outlook of the industry concerning recent developments which involve growth opportunities and drivers as well as challenges and restraints of both emerging as well as developed regions

Includes in-depth analysis of the market from various perspectives through Porter's five forces analysis

Provides insight into the market through Value Chain

Market dynamics scenario, along with growth opportunities of the market in the years to come

6-month post-sales analyst support

Customization of the Report

In case of any queries or customization requirements, please connect with our sales team, who will ensure that your requirements are met.

Chapter Outline

Chapter 1 mainly introduces the statistical scope of the report, market division standards, and market research methods.

Chapter 2 is an executive summary of different market segments (by region, product type, application, etc), including the market size of each market segment, future development potential, and so on. It offers a high-level view of the current state of the Nickel-63 Market and its likely evolution in the short to mid-term, and long term.

Chapter 3 makes a detailed analysis of the market's competitive landscape of the market and provides the market share, capacity, output, price, latest development plan, merger, and acquisition information of the main manufacturers in the market.

Chapter 4 is the analysis of the whole market industrial chain, including the upstream and downstream of the industry, as well as Porter's five forces analysis.

Chapter 5 introduces the latest developments of the market, the driving factors and restrictive factors of the market, the challenges and risks faced by manufacturers in the industry, and the analysis of relevant policies in the industry.

Chapter 6 provides the analysis of various market segments according to product types, covering the market size and development potential of each market segment, to help readers find the blue ocean market in different market segments.

Chapter 7 provides the analysis of various market segments according to application, covering the market size and development potential of each market segment, to help readers find the blue ocean market in different downstream markets.

Chapter 8 provides a quantitative analysis of the market size and development potential of each region and its main countries and introduces the market development, future development prospects, market space, and capacity of each country in the world.

Chapter 9 introduces the basic situation of the main companies in the market in detail, including product sales revenue, sales volume, price, gross profit margin, market share, product introduction, recent development, etc.

Chapter 10 provides a quantitative analysis of the market size and development potential of each region in the next five years.

Chapter 11 provides a quantitative analysis of the market size and development potential of each market segment (product type and application) in the next five years.

Chapter 12 is the main points and conclusions of the report.

Contents

1 RESEARCH METHODOLOGY AND STATISTICAL SCOPE

1.1 Market Definition and Statistical Scope of Nickel-63

1.2 Key Market Segments

1.2.1 Nickel-63 Segment by Type

1.2.2 Nickel-63 Segment by Application

1.3 Methodology & Sources of Information

1.3.1 Research Methodology

1.3.2 Research Process

1.3.3 Market Breakdown and Data Triangulation

1.3.4 Base Year

1.3.5 Report Assumptions & Caveats

2 NICKEL-63 MARKET OVERVIEW

2.1 Global Market Overview

2.1.1 Global Nickel-63 Market Size (M USD) Estimates and Forecasts (2019-2032)

2.1.2 Global Nickel-63 Sales Estimates and Forecasts (2019-2032)

2.2 Market Segment Executive Summary

2.3 Global Market Size by Region

2.4 Macroeconomic Analysis

3 NICKEL-63 MARKET COMPETITIVE LANDSCAPE

3.1 Global Nickel-63 Sales by Manufacturers (2019-2024)

3.2 Global Nickel-63 Revenue Market Share by Manufacturers (2019-2024)

3.3 Nickel-63 Market Share by Company Type (Tier 1, Tier 2, and Tier 3)

3.4 Global Nickel-63 Average Price by Manufacturers (2019-2024)

3.5 Manufacturers Nickel-63 Sales Sites, Area Served, Product Type

3.6 Nickel-63 Market Competitive Situation and Trends

3.6.1 Nickel-63 Market Concentration Rate

3.6.2 Global 5 and 10 Largest Nickel-63 Players Market Share by Revenue

3.6.3 Mergers & Acquisitions, Expansion

4 NICKEL-63 INDUSTRY CHAIN ANALYSIS

4.1 Nickel-63 Industry Chain Analysis

4.2 Market Overview of Key Raw Materials

4.3 Midstream Market Analysis

4.4 Downstream Customer Analysis

5 THE DEVELOPMENT AND DYNAMICS OF NICKEL-63 MARKET

5.1 Key Development Trends

5.2 Driving Factors

5.3 Market Challenges

5.4 Market Restraints

5.5 Industry News

5.5.1 New Product Developments

5.5.2 Mergers & Acquisitions

5.5.3 Expansions

5.5.4 Collaboration/Supply Contracts

5.6 Industry Policies

6 NICKEL-63 MARKET SEGMENTATION BY TYPE

6.1 Evaluation Matrix of Segment Market Development Potential (Type)

6.2 Global Nickel-63 Sales Market Share by Type (2019-2024)

6.3 Global Nickel-63 Market Size Market Share by Type (2019-2024)

6.4 Global Nickel-63 Price by Type (2019-2024)

7 NICKEL-63 MARKET SEGMENTATION BY APPLICATION

7.1 Evaluation Matrix of Segment Market Development Potential (Application)

7.2 Global Nickel-63 Market Sales by Application (2019-2024)

7.3 Global Nickel-63 Market Size (M USD) by Application (2019-2024)

7.4 Global Nickel-63 Sales Growth Rate by Application (2019-2024)

8 NICKEL-63 MARKET SALES BY REGION

8.1 Global Nickel-63 Sales by Region

8.1.1 Global Nickel-63 Sales by Region

8.1.2 Global Nickel-63 Sales Market Share by Region

8.2 Global Nickel-63 Market Size by Region

8.2.1 Global Nickel-63 Market Size by Region

8.2.2 Global Nickel-63 Market Size Market Share by Region

8.3 North America

8.3.1 North America Nickel-63 Sales by Country

8.3.2 North America Nickel-63 Market Size by Country

8.3.3 U.S. Market Overview

8.3.4 Canada Market Overview

8.3.5 Mexico Market Overview

8.4 Europe

8.4.1 Europe Nickel-63 Sales by Country

8.4.2 Europe Nickel-63 Market Size by Country

8.4.3 Germany Market Overview

8.4.4 France Market Overview

8.4.5 U.K. Market Overview

8.4.6 Italy Market Overview

8.4.7 Russia Market Overview

8.5 Asia Pacific

8.5.1 Asia Pacific Nickel-63 Sales by Region

8.5.2 China

8.5.3 Japan

8.5.4 South Korea

8.5.5 India

8.5.6 Southeast Asia

8.6 Asia Pacific

8.6.1 Asia Pacific Nickel-63 Market Size by Region

8.6.2 Asia Pacific Nickel-63 Market Size by Region

8.6.3 China

8.6.4 Japan

8.6.5 South Korea

8.6.6 India

8.6.7 Southeast Asia

8.7 South America

8.7.1 South America Nickel-63 Sales by Country

8.7.2 South America Nickel-63 Market Size by Country

8.7.3 Brazil

8.7.4 Argentina

8.7.5 Columbia

8.8 Middle East and Africa

8.8.1 Middle East and Africa Nickel-63 Sales by Region

8.8.2 Middle East and Africa Nickel-63 Market Size by Region

8.8.3 Saudi Arabia

- 8.8.4 UAE
- 8.8.5 Egypt
- 8.8.6 Nigeria
- 8.8.7 South Africa

9 NICKEL-63 MARKET PRODUCTION BY REGION

- 9.1 Global Production of Nickel-63 by Region (2019-2024)
- 9.2 Global Nickel-63 Revenue Market Share by Region (2019-2024)
- 9.3 Global Nickel-63 Production, Revenue, Price and Gross Margin (2019-2024)
- 9.4 North America Nickel-63 Production
 - 9.4.1 North America Nickel-63 Production Growth Rate (2019-2024)
 - 9.4.2 North America Nickel-63 Production, Revenue, Price and Gross Margin (2019-2024)
- 9.5 Europe Nickel-63 Production
 - 9.5.1 Europe Nickel-63 Production Growth Rate (2019-2024)
 - 9.5.2 Europe Nickel-63 Production, Revenue, Price and Gross Margin (2019-2024)
- 9.6 Japan Nickel-63 Production (2019-2024)
 - 9.6.1 Japan Nickel-63 Production Growth Rate (2019-2024)
 - 9.6.2 Japan Nickel-63 Production, Revenue, Price and Gross Margin (2019-2024)
- 9.7 China Nickel-63 Production (2019-2024)
 - 9.7.1 China Nickel-63 Production Growth Rate (2019-2024)
 - 9.7.2 China Nickel-63 Production, Revenue, Price and Gross Margin (2019-2024)

10 KEY COMPANIES PROFILE

- 10.1 ORNL
 - 10.1.1 ORNL Nickel-63 Basic Information
 - 10.1.2 ORNL Nickel-63 Product Overview
 - 10.1.3 ORNL Nickel-63 Product Market Performance
 - 10.1.4 ORNL Business Overview
 - 10.1.5 ORNL Nickel-63 SWOT Analysis
 - 10.1.6 ORNL Recent Developments
- 10.2 Columbia Tech
 - 10.2.1 Columbia Tech Nickel-63 Basic Information
 - 10.2.2 Columbia Tech Nickel-63 Product Overview
 - 10.2.3 Columbia Tech Nickel-63 Product Market Performance
 - 10.2.4 Columbia Tech Business Overview
 - 10.2.5 Columbia Tech Nickel-63 SWOT Analysis

- 10.2.6 Columbia Tech Recent Developments
- 10.3 Atomic Hi-Tech Co.
 - 10.3.1 Atomic Hi-Tech Co. Nickel-63 Basic Information
 - 10.3.2 Atomic Hi-Tech Co. Nickel-63 Product Overview
 - 10.3.3 Atomic Hi-Tech Co. Nickel-63 Product Market Performance
 - 10.3.4 Atomic Hi-Tech Co. Nickel-63 SWOT Analysis
 - 10.3.5 Atomic Hi-Tech Co. Business Overview
 - 10.3.6 Atomic Hi-Tech Co. Recent Developments
- 10.4 Ltd.
 - 10.4.1 Ltd. Nickel-63 Basic Information
 - 10.4.2 Ltd. Nickel-63 Product Overview
 - 10.4.3 Ltd. Nickel-63 Product Market Performance
 - 10.4.4 Ltd. Business Overview
 - 10.4.5 Ltd. Recent Developments

11 NICKEL-63 MARKET FORECAST BY REGION

- 11.1 Global Nickel-63 Market Size Forecast
- 11.2 Global Nickel-63 Market Forecast by Region
 - 11.2.1 North America Market Size Forecast by Country
 - 11.2.2 Europe Nickel-63 Market Size Forecast by Country
 - 11.2.3 Asia Pacific Nickel-63 Market Size Forecast by Region
 - 11.2.4 South America Nickel-63 Market Size Forecast by Country
 - 11.2.5 Middle East and Africa Forecasted Sales of Nickel-63 by Country

12 FORECAST MARKET BY TYPE AND BY APPLICATION (2025-2032)

- 12.1 Global Nickel-63 Market Forecast by Type (2025-2032)
 - 12.1.1 Global Forecasted Sales of Nickel-63 by Type (2025-2032)
 - 12.1.2 Global Nickel-63 Market Size Forecast by Type (2025-2032)
 - 12.1.3 Global Forecasted Price of Nickel-63 by Type (2025-2032)
- 12.2 Global Nickel-63 Market Forecast by Application (2025-2032)
 - 12.2.1 Global Nickel-63 Sales (K MT) Forecast by Application
 - 12.2.2 Global Nickel-63 Market Size (M USD) Forecast by Application (2025-2032)

13 CONCLUSION AND KEY FINDINGS

I would like to order

Product name: Global Nickel-63 Market Research Report 2024(Status and Outlook)

Product link: <https://marketpublishers.com/r/G4DABCADE3C7EN.html>

Price: US\$ 2,800.00 (Single User License / Electronic Delivery)

If you want to order Corporate License or Hard Copy, please, contact our Customer Service:

info@marketpublishers.com

Payment

To pay by Credit Card (Visa, MasterCard, American Express, PayPal), please, click button on product page <https://marketpublishers.com/r/G4DABCADE3C7EN.html>