

Global Nuclear Grade O-Rings Market Growth 2026-2032

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Abstracts

The global Nuclear Grade O-Rings market size is predicted to grow from US\$ 81.68 million in 2025 to US\$ 113 million in 2032; it is expected to grow at a CAGR of 4.8% from 2026 to 2032.

In 2025, global Nuclear Grade O-Rings production reached approximately 14.9 million units. The price of a nuclear-grade O-ring is \$5.60 per unit. Nuclear-grade O-rings are specialized sealing elements used in nuclear island equipment of nuclear power plants, meeting nuclear safety requirements. These products utilize rigorously certified special elastomer materials, possessing excellent radiation resistance, high-temperature and high-pressure resistance, and aging resistance. Their design and manufacturing adhere to nuclear-grade quality assurance systems to ensure effective sealing even under extreme accident conditions. Nuclear-grade O-rings are primarily used in critical components such as reactor pressure vessels, fuel transfer channels, control rod drive mechanisms, and various nuclear-grade valves. As a third line of defense against radioactive material leakage, they play a crucial role in ensuring nuclear safety. The global nuclear-grade O-ring supply chain's upstream raw material market will exhibit an oligopolistic structure. Nuclear-grade rubber will be primarily dominated by a few international chemical giants such as DuPont, Daikin, and Solvay Specialty Polymers; nuclear-grade metals (such as Inconel and stainless steel) will be supplied by specialized manufacturers like Sandvik, Voestalpine, and CITIC Special Steel, with materials requiring stringent irradiation certification. Downstream customers will be highly focused on the nuclear power sector, including Westinghouse Electric, Framatome, Rosatom, and nuclear power operators and EPC contractors such as CNNC and CGN, primarily using the materials for reactor pressure vessel sealing, fuel handling equipment, and nuclear-grade valves. Furthermore, with the increase in global nuclear power plant life extension and new construction projects, in-service inspection

and spare parts service providers will also become important purchasers. In the cost structure of nuclear grade O-rings, raw materials account for the largest share (approximately 50%-60%), mainly consisting of specialty rubber or metal materials; manufacturing and testing costs (approximately 20%-25%) cover precision molding, irradiation aging testing, and LOCA simulation verification; and quality assurance and certification costs (approximately 15%-20%) are due to the requirement for full traceability in the nuclear grade quality assurance system. The industry's gross profit margin is generally in the range of 40%-60%, while high-value customized products (such as metal O-rings) can achieve gross profit margins exceeding 70%, primarily due to extremely high technological barriers and strict entry requirements.

United States market for Nuclear Grade O-Rings is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

China market for Nuclear Grade O-Rings is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

Europe market for Nuclear Grade O-Rings is estimated to increase from US\$ million in 2025 to US\$ million by 2032, at a CAGR of % from 2026 through 2032.

Global key Nuclear Grade O-Rings players cover Canyon Components, Glenair, Hutchinson, INEM Co., Ltd, James Walker, etc. In terms of revenue, the global two largest companies occupied for a share nearly % in 2025.

LP Information, Inc. (LPI) ' newest research report, the "Nuclear Grade O-Rings Industry Forecast" looks at past sales and reviews total world Nuclear Grade O-Rings sales in 2025, providing a comprehensive analysis by region and market sector of projected Nuclear Grade O-Rings sales for 2026 through 2032. With Nuclear Grade O-Rings sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world Nuclear Grade O-Rings industry.

This Insight Report provides a comprehensive analysis of the global Nuclear Grade O-Rings landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyzes the strategies of leading global companies with a focus on Nuclear Grade O-Rings portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Nuclear Grade O-Rings market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Nuclear Grade O-Rings and breaks down the forecast by Type, by Application, geography, and market size to highlight emerging pockets of opportunity. With a transparent methodology based on hundreds of bottom-up qualitative and quantitative market inputs, this study forecast offers a highly nuanced view of the current state and future trajectory in the global Nuclear Grade O-Rings.

This report presents a comprehensive overview, market shares, and growth opportunities of Nuclear Grade O-Rings market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

High Radiation Tolerance (10⁷-10⁸ Gy)

Medium Radiation Tolerance (10⁶-10⁷ Gy)

Low Radiation Tolerance (Below 10⁶ Gy)

Segmentation by Material:

Fluororubber O-rings

Silicone rubber O-rings

Metal O-rings

Others

Segmentation by Application:

Reactor Pressure Vessel

Fuel Handling Passages

Control Rod Drive Mechanism

Nuclear-grade Valves

Others

This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

APAC

China

Japan

Korea

Southeast Asia

India

Australia

Europe

Germany

France

UK

Italy

Russia

Middle East & Africa

Egypt

South Africa

Israel

Turkey

GCC Countries

The below companies that are profiled have been selected based on inputs gathered from primary experts and analysing the company's coverage, product portfolio, its market penetration.

Canyon Components

Glenair

Hutchinson

INEM Co., Ltd

James Walker

M Barnwell Services

Munaco

Omniseal Solutions

Parker

Superior Tube

Technetics Group

TRP Polymer Solutions

Haohua Chemical

Key Questions Addressed in this Report

What is the 10-year outlook for the global Nuclear Grade O-Rings market?

What factors are driving Nuclear Grade O-Rings market growth, globally and by region?

Which technologies are poised for the fastest growth by market and region?

How do Nuclear Grade O-Rings market opportunities vary by end market size?

How does Nuclear Grade O-Rings break out by Type, by Application?

Contents

1 SCOPE OF THE REPORT

- 1.1 Market Introduction
- 1.2 Years Considered
- 1.3 Research Objectives
- 1.4 Market Research Methodology
- 1.5 Research Process and Data Source
- 1.6 Economic Indicators
- 1.7 Currency Considered
- 1.8 Market Estimation Caveats

2 EXECUTIVE SUMMARY

2.1 World Market Overview

- 2.1.1 Global Nuclear Grade O-Rings Annual Sales 2021-2032
- 2.1.2 World Current & Future Analysis for Nuclear Grade O-Rings by Geographic Region, 2021, 2025 & 2032
- 2.1.3 World Current & Future Analysis for Nuclear Grade O-Rings by Country/Region, 2021, 2025 & 2032

2.2 Nuclear Grade O-Rings Segment by Type

- 2.2.1 High Radiation Tolerance (10⁷-10⁸ Gy)
- 2.2.2 Medium Radiation Tolerance (10⁶-10⁷ Gy)
- 2.2.3 Low Radiation Tolerance (Below 10⁶ Gy)
- 2.2.4 Nuclear Grade O-Rings Sales by Type
 - 2.2.4.1 Global Nuclear Grade O-Rings Sales Market Share by Type (2021-2026)
 - 2.2.4.2 Global Nuclear Grade O-Rings Revenue and Market Share by Type (2021-2026)
 - 2.2.4.3 Global Nuclear Grade O-Rings Sale Price by Type (2021-2026)

2.3 Nuclear Grade O-Rings Segment by Material

- 2.3.1 Fluororubber O-rings
- 2.3.2 Silicone rubber O-rings
- 2.3.3 Metal O-rings
- 2.3.4 Others
- 2.3.5 Nuclear Grade O-Rings Sales by Material
 - 2.3.5.1 Global Nuclear Grade O-Rings Sales Market Share by Material (2021-2026)
 - 2.3.5.2 Global Nuclear Grade O-Rings Revenue and Market Share by Material (2021-2026)

- 2.3.5.3 Global Nuclear Grade O-Rings Sale Price by Material (2021-2026)
- 2.4 Nuclear Grade O-Rings Segment by Application
 - 2.4.1 Reactor Pressure Vessel
 - 2.4.2 Fuel Handling Passages
 - 2.4.3 Control Rod Drive Mechanism
 - 2.4.4 Nuclear-grade Valves
 - 2.4.5 Others
 - 2.4.6 Nuclear Grade O-Rings Sales by Application
 - 2.4.6.1 Global Nuclear Grade O-Rings Sale Market Share by Application (2021-2026)
 - 2.4.6.2 Global Nuclear Grade O-Rings Revenue and Market Share by Application (2021-2026)
 - 2.4.6.3 Global Nuclear Grade O-Rings Sale Price by Application (2021-2026)

3 GLOBAL BY COMPANY

- 3.1 Global Nuclear Grade O-Rings Breakdown Data by Company
 - 3.1.1 Global Nuclear Grade O-Rings Annual Sales by Company (2021-2026)
 - 3.1.2 Global Nuclear Grade O-Rings Sales Market Share by Company (2021-2026)
- 3.2 Global Nuclear Grade O-Rings Annual Revenue by Company (2021-2026)
 - 3.2.1 Global Nuclear Grade O-Rings Revenue by Company (2021-2026)
 - 3.2.2 Global Nuclear Grade O-Rings Revenue Market Share by Company (2021-2026)
- 3.3 Global Nuclear Grade O-Rings Sale Price by Company
- 3.4 Key Manufacturers Nuclear Grade O-Rings Producing Area Distribution, Sales Area, Product Type
 - 3.4.1 Key Manufacturers Nuclear Grade O-Rings Product Location Distribution
 - 3.4.2 Players Nuclear Grade O-Rings Products Offered
- 3.5 Market Concentration Rate Analysis
 - 3.5.1 Competition Landscape Analysis
 - 3.5.2 Concentration Ratio (CR3, CR5 and CR10) & (2024-2026)
- 3.6 New Products and Potential Entrants
- 3.7 Market M&A Activity & Strategy

4 WORLD HISTORIC REVIEW FOR NUCLEAR GRADE O-RINGS BY GEOGRAPHIC REGION

- 4.1 World Historic Nuclear Grade O-Rings Market Size by Geographic Region (2021-2026)
 - 4.1.1 Global Nuclear Grade O-Rings Annual Sales by Geographic Region (2021-2026)
 - 4.1.2 Global Nuclear Grade O-Rings Annual Revenue by Geographic Region

(2021-2026)

4.2 World Historic Nuclear Grade O-Rings Market Size by Country/Region (2021-2026)

4.2.1 Global Nuclear Grade O-Rings Annual Sales by Country/Region (2021-2026)

4.2.2 Global Nuclear Grade O-Rings Annual Revenue by Country/Region (2021-2026)

4.3 Americas Nuclear Grade O-Rings Sales Growth

4.4 APAC Nuclear Grade O-Rings Sales Growth

4.5 Europe Nuclear Grade O-Rings Sales Growth

4.6 Middle East & Africa Nuclear Grade O-Rings Sales Growth

5 AMERICAS

5.1 Americas Nuclear Grade O-Rings Sales by Country

5.1.1 Americas Nuclear Grade O-Rings Sales by Country (2021-2026)

5.1.2 Americas Nuclear Grade O-Rings Revenue by Country (2021-2026)

5.2 Americas Nuclear Grade O-Rings Sales by Type (2021-2026)

5.3 Americas Nuclear Grade O-Rings Sales by Application (2021-2026)

5.4 United States

5.5 Canada

5.6 Mexico

5.7 Brazil

6 APAC

6.1 APAC Nuclear Grade O-Rings Sales by Region

6.1.1 APAC Nuclear Grade O-Rings Sales by Region (2021-2026)

6.1.2 APAC Nuclear Grade O-Rings Revenue by Region (2021-2026)

6.2 APAC Nuclear Grade O-Rings Sales by Type (2021-2026)

6.3 APAC Nuclear Grade O-Rings Sales by Application (2021-2026)

6.4 China

6.5 Japan

6.6 South Korea

6.7 Southeast Asia

6.8 India

6.9 Australia

6.10 China Taiwan

7 EUROPE

7.1 Europe Nuclear Grade O-Rings by Country

- 7.1.1 Europe Nuclear Grade O-Rings Sales by Country (2021-2026)
- 7.1.2 Europe Nuclear Grade O-Rings Revenue by Country (2021-2026)
- 7.2 Europe Nuclear Grade O-Rings Sales by Type (2021-2026)
- 7.3 Europe Nuclear Grade O-Rings Sales by Application (2021-2026)
- 7.4 Germany
- 7.5 France
- 7.6 UK
- 7.7 Italy
- 7.8 Russia

8 MIDDLE EAST & AFRICA

- 8.1 Middle East & Africa Nuclear Grade O-Rings by Country
 - 8.1.1 Middle East & Africa Nuclear Grade O-Rings Sales by Country (2021-2026)
 - 8.1.2 Middle East & Africa Nuclear Grade O-Rings Revenue by Country (2021-2026)
- 8.2 Middle East & Africa Nuclear Grade O-Rings Sales by Type (2021-2026)
- 8.3 Middle East & Africa Nuclear Grade O-Rings Sales by Application (2021-2026)
- 8.4 Egypt
- 8.5 South Africa
- 8.6 Israel
- 8.7 Turkey
- 8.8 GCC Countries

9 MARKET DRIVERS, CHALLENGES AND TRENDS

- 9.1 Market Drivers & Growth Opportunities
- 9.2 Market Challenges & Risks
- 9.3 Industry Trends

10 MANUFACTURING COST STRUCTURE ANALYSIS

- 10.1 Raw Material and Suppliers
- 10.2 Manufacturing Cost Structure Analysis of Nuclear Grade O-Rings
- 10.3 Manufacturing Process Analysis of Nuclear Grade O-Rings
- 10.4 Industry Chain Structure of Nuclear Grade O-Rings

11 MARKETING, DISTRIBUTORS AND CUSTOMER

- 11.1 Sales Channel

- 11.1.1 Direct Channels
- 11.1.2 Indirect Channels
- 11.2 Nuclear Grade O-Rings Distributors
- 11.3 Nuclear Grade O-Rings Customer

12 WORLD FORECAST REVIEW FOR NUCLEAR GRADE O-RINGS BY GEOGRAPHIC REGION

- 12.1 Global Nuclear Grade O-Rings Market Size Forecast by Region
 - 12.1.1 Global Nuclear Grade O-Rings Forecast by Region (2027-2032)
 - 12.1.2 Global Nuclear Grade O-Rings Annual Revenue Forecast by Region (2027-2032)
- 12.2 Americas Forecast by Country (2027-2032)
- 12.3 APAC Forecast by Region (2027-2032)
- 12.4 Europe Forecast by Country (2027-2032)
- 12.5 Middle East & Africa Forecast by Country (2027-2032)
- 12.6 Global Nuclear Grade O-Rings Forecast by Type (2027-2032)
- 12.7 Global Nuclear Grade O-Rings Forecast by Application (2027-2032)

13 KEY PLAYERS ANALYSIS

- 13.1 Canyon Components
 - 13.1.1 Canyon Components Company Information
 - 13.1.2 Canyon Components Nuclear Grade O-Rings Product Portfolios and Specifications
 - 13.1.3 Canyon Components Nuclear Grade O-Rings Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.1.4 Canyon Components Main Business Overview
 - 13.1.5 Canyon Components Latest Developments
- 13.2 Glenair
 - 13.2.1 Glenair Company Information
 - 13.2.2 Glenair Nuclear Grade O-Rings Product Portfolios and Specifications
 - 13.2.3 Glenair Nuclear Grade O-Rings Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.2.4 Glenair Main Business Overview
 - 13.2.5 Glenair Latest Developments
- 13.3 Hutchinson
 - 13.3.1 Hutchinson Company Information
 - 13.3.2 Hutchinson Nuclear Grade O-Rings Product Portfolios and Specifications

13.3.3 Hutchinson Nuclear Grade O-Rings Sales, Revenue, Price and Gross Margin (2021-2026)

13.3.4 Hutchinson Main Business Overview

13.3.5 Hutchinson Latest Developments

13.4 INEM Co., Ltd

13.4.1 INEM Co., Ltd Company Information

13.4.2 INEM Co., Ltd Nuclear Grade O-Rings Product Portfolios and Specifications

13.4.3 INEM Co., Ltd Nuclear Grade O-Rings Sales, Revenue, Price and Gross Margin (2021-2026)

13.4.4 INEM Co., Ltd Main Business Overview

13.4.5 INEM Co., Ltd Latest Developments

13.5 James Walker

13.5.1 James Walker Company Information

13.5.2 James Walker Nuclear Grade O-Rings Product Portfolios and Specifications

13.5.3 James Walker Nuclear Grade O-Rings Sales, Revenue, Price and Gross Margin (2021-2026)

13.5.4 James Walker Main Business Overview

13.5.5 James Walker Latest Developments

13.6 M Barnwell Services

13.6.1 M Barnwell Services Company Information

13.6.2 M Barnwell Services Nuclear Grade O-Rings Product Portfolios and Specifications

13.6.3 M Barnwell Services Nuclear Grade O-Rings Sales, Revenue, Price and Gross Margin (2021-2026)

13.6.4 M Barnwell Services Main Business Overview

13.6.5 M Barnwell Services Latest Developments

13.7 Munaco

13.7.1 Munaco Company Information

13.7.2 Munaco Nuclear Grade O-Rings Product Portfolios and Specifications

13.7.3 Munaco Nuclear Grade O-Rings Sales, Revenue, Price and Gross Margin (2021-2026)

13.7.4 Munaco Main Business Overview

13.7.5 Munaco Latest Developments

13.8 Omniseal Solutions

13.8.1 Omniseal Solutions Company Information

13.8.2 Omniseal Solutions Nuclear Grade O-Rings Product Portfolios and Specifications

13.8.3 Omniseal Solutions Nuclear Grade O-Rings Sales, Revenue, Price and Gross Margin (2021-2026)

- 13.8.4 Omniseal Solutions Main Business Overview
- 13.8.5 Omniseal Solutions Latest Developments
- 13.9 Parker
 - 13.9.1 Parker Company Information
 - 13.9.2 Parker Nuclear Grade O-Rings Product Portfolios and Specifications
 - 13.9.3 Parker Nuclear Grade O-Rings Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.9.4 Parker Main Business Overview
 - 13.9.5 Parker Latest Developments
- 13.10 Superior Tube
 - 13.10.1 Superior Tube Company Information
 - 13.10.2 Superior Tube Nuclear Grade O-Rings Product Portfolios and Specifications
 - 13.10.3 Superior Tube Nuclear Grade O-Rings Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.10.4 Superior Tube Main Business Overview
 - 13.10.5 Superior Tube Latest Developments
- 13.11 Technetics Group
 - 13.11.1 Technetics Group Company Information
 - 13.11.2 Technetics Group Nuclear Grade O-Rings Product Portfolios and Specifications
 - 13.11.3 Technetics Group Nuclear Grade O-Rings Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.11.4 Technetics Group Main Business Overview
 - 13.11.5 Technetics Group Latest Developments
- 13.12 TRP Polymer Solutions
 - 13.12.1 TRP Polymer Solutions Company Information
 - 13.12.2 TRP Polymer Solutions Nuclear Grade O-Rings Product Portfolios and Specifications
 - 13.12.3 TRP Polymer Solutions Nuclear Grade O-Rings Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.12.4 TRP Polymer Solutions Main Business Overview
 - 13.12.5 TRP Polymer Solutions Latest Developments
- 13.13 Haohua Chemical
 - 13.13.1 Haohua Chemical Company Information
 - 13.13.2 Haohua Chemical Nuclear Grade O-Rings Product Portfolios and Specifications
 - 13.13.3 Haohua Chemical Nuclear Grade O-Rings Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.13.4 Haohua Chemical Main Business Overview

13.13.5 Haohua Chemical Latest Developments

14 RESEARCH FINDINGS AND CONCLUSION

List Of Tables

LIST OF TABLES

Table 1. Nuclear Grade O-Rings Annual Sales CAGR by Geographic Region (2021, 2025 & 2032) & (\$ millions)

Table 2. Nuclear Grade O-Rings Annual Sales CAGR by Country/Region (2021, 2025 & 2032) & (\$ millions)

Table 3. Major Players of High Radiation Tolerance (10⁷-10⁸ Gy)

Table 4. Major Players of Medium Radiation Tolerance (10⁶-10⁷ Gy)

Table 5. Major Players of Low Radiation Tolerance (Below 10⁶ Gy)

Table 6. Global Nuclear Grade O-Rings Sales by Type (2021-2026) & (Million Units)

Table 7. Global Nuclear Grade O-Rings Sales Market Share by Type (2021-2026)

Table 8. Global Nuclear Grade O-Rings Revenue by Type (2021-2026) & (\$ million)

Table 9. Global Nuclear Grade O-Rings Revenue Market Share by Type (2021-2026)

Table 10. Global Nuclear Grade O-Rings Sale Price by Type (2021-2026) & (US\$/Unit)

Table 11. Major Players of Fluororubber O-rings

Table 12. Major Players of Silicone rubber O-rings

Table 13. Major Players of Metal O-rings

Table 14. Major Players of Others

Table 15. Global Nuclear Grade O-Rings Sales by Material (2021-2026) & (Million Units)

Table 16. Global Nuclear Grade O-Rings Sales Market Share by Material (2021-2026)

Table 17. Global Nuclear Grade O-Rings Revenue by Material (2021-2026) & (\$ million)

Table 18. Global Nuclear Grade O-Rings Revenue Market Share by Material (2021-2026)

Table 19. Global Nuclear Grade O-Rings Sale Price by Material (2021-2026) & (US\$/Unit)

Table 20. Global Nuclear Grade O-Rings Sale by Application (2021-2026) & (Million Units)

Table 21. Global Nuclear Grade O-Rings Sale Market Share by Application (2021-2026)

Table 22. Global Nuclear Grade O-Rings Revenue by Application (2021-2026) & (\$ million)

Table 23. Global Nuclear Grade O-Rings Revenue Market Share by Application (2021-2026)

Table 24. Global Nuclear Grade O-Rings Sale Price by Application (2021-2026) & (US\$/Unit)

Table 25. Global Nuclear Grade O-Rings Sales by Company (2021-2026) & (Million Units)

Table 26. Global Nuclear Grade O-Rings Sales Market Share by Company (2021-2026)

Table 27. Global Nuclear Grade O-Rings Revenue by Company (2021-2026) & (\$ millions)

Table 28. Global Nuclear Grade O-Rings Revenue Market Share by Company (2021-2026)

Table 29. Global Nuclear Grade O-Rings Sale Price by Company (2021-2026) & (US\$/Unit)

Table 30. Key Manufacturers Nuclear Grade O-Rings Producing Area Distribution and Sales Area

Table 31. Players Nuclear Grade O-Rings Products Offered

Table 32. Nuclear Grade O-Rings Concentration Ratio (CR3, CR5 and CR10) & (2024-2026)

Table 33. New Products and Potential Entrants

Table 34. Market M&A Activity & Strategy

Table 35. Global Nuclear Grade O-Rings Sales by Geographic Region (2021-2026) & (Million Units)

Table 36. Global Nuclear Grade O-Rings Sales Market Share Geographic Region (2021-2026)

Table 37. Global Nuclear Grade O-Rings Revenue by Geographic Region (2021-2026) & (\$ millions)

Table 38. Global Nuclear Grade O-Rings Revenue Market Share by Geographic Region (2021-2026)

Table 39. Global Nuclear Grade O-Rings Sales by Country/Region (2021-2026) & (Million Units)

Table 40. Global Nuclear Grade O-Rings Sales Market Share by Country/Region (2021-2026)

Table 41. Global Nuclear Grade O-Rings Revenue by Country/Region (2021-2026) & (\$ millions)

Table 42. Global Nuclear Grade O-Rings Revenue Market Share by Country/Region (2021-2026)

Table 43. Americas Nuclear Grade O-Rings Sales by Country (2021-2026) & (Million Units)

Table 44. Americas Nuclear Grade O-Rings Sales Market Share by Country (2021-2026)

Table 45. Americas Nuclear Grade O-Rings Revenue by Country (2021-2026) & (\$ millions)

Table 46. Americas Nuclear Grade O-Rings Sales by Type (2021-2026) & (Million Units)

Table 47. Americas Nuclear Grade O-Rings Sales by Application (2021-2026) & (Million Units)

- Table 48. APAC Nuclear Grade O-Rings Sales by Region (2021-2026) & (Million Units)
- Table 49. APAC Nuclear Grade O-Rings Sales Market Share by Region (2021-2026)
- Table 50. APAC Nuclear Grade O-Rings Revenue by Region (2021-2026) & (\$ millions)
- Table 51. APAC Nuclear Grade O-Rings Sales by Type (2021-2026) & (Million Units)
- Table 52. APAC Nuclear Grade O-Rings Sales by Application (2021-2026) & (Million Units)
- Table 53. Europe Nuclear Grade O-Rings Sales by Country (2021-2026) & (Million Units)
- Table 54. Europe Nuclear Grade O-Rings Revenue by Country (2021-2026) & (\$ millions)
- Table 55. Europe Nuclear Grade O-Rings Sales by Type (2021-2026) & (Million Units)
- Table 56. Europe Nuclear Grade O-Rings Sales by Application (2021-2026) & (Million Units)
- Table 57. Middle East & Africa Nuclear Grade O-Rings Sales by Country (2021-2026) & (Million Units)
- Table 58. Middle East & Africa Nuclear Grade O-Rings Revenue Market Share by Country (2021-2026)
- Table 59. Middle East & Africa Nuclear Grade O-Rings Sales by Type (2021-2026) & (Million Units)
- Table 60. Middle East & Africa Nuclear Grade O-Rings Sales by Application (2021-2026) & (Million Units)
- Table 61. Key Market Drivers & Growth Opportunities of Nuclear Grade O-Rings
- Table 62. Key Market Challenges & Risks of Nuclear Grade O-Rings
- Table 63. Key Industry Trends of Nuclear Grade O-Rings
- Table 64. Nuclear Grade O-Rings Raw Material
- Table 65. Key Suppliers of Raw Materials
- Table 66. Nuclear Grade O-Rings Distributors List
- Table 67. Nuclear Grade O-Rings Customer List
- Table 68. Global Nuclear Grade O-Rings Sales Forecast by Region (2027-2032) & (Million Units)
- Table 69. Global Nuclear Grade O-Rings Revenue Forecast by Region (2027-2032) & (\$ millions)
- Table 70. Americas Nuclear Grade O-Rings Sales Forecast by Country (2027-2032) & (Million Units)
- Table 71. Americas Nuclear Grade O-Rings Annual Revenue Forecast by Country (2027-2032) & (\$ millions)
- Table 72. APAC Nuclear Grade O-Rings Sales Forecast by Region (2027-2032) & (Million Units)
- Table 73. APAC Nuclear Grade O-Rings Annual Revenue Forecast by Region

(2027-2032) & (\$ millions)

Table 74. Europe Nuclear Grade O-Rings Sales Forecast by Country (2027-2032) & (Million Units)

Table 75. Europe Nuclear Grade O-Rings Revenue Forecast by Country (2027-2032) & (\$ millions)

Table 76. Middle East & Africa Nuclear Grade O-Rings Sales Forecast by Country (2027-2032) & (Million Units)

Table 77. Middle East & Africa Nuclear Grade O-Rings Revenue Forecast by Country (2027-2032) & (\$ millions)

Table 78. Global Nuclear Grade O-Rings Sales Forecast by Type (2027-2032) & (Million Units)

Table 79. Global Nuclear Grade O-Rings Revenue Forecast by Type (2027-2032) & (\$ millions)

Table 80. Global Nuclear Grade O-Rings Sales Forecast by Application (2027-2032) & (Million Units)

Table 81. Global Nuclear Grade O-Rings Revenue Forecast by Application (2027-2032) & (\$ millions)

Table 82. Canyon Components Basic Information, Nuclear Grade O-Rings Manufacturing Base, Sales Area and Its Competitors

Table 83. Canyon Components Nuclear Grade O-Rings Product Portfolios and Specifications

Table 84. Canyon Components Nuclear Grade O-Rings Sales (Million Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 85. Canyon Components Main Business

Table 86. Canyon Components Latest Developments

Table 87. Glenair Basic Information, Nuclear Grade O-Rings Manufacturing Base, Sales Area and Its Competitors

Table 88. Glenair Nuclear Grade O-Rings Product Portfolios and Specifications

Table 89. Glenair Nuclear Grade O-Rings Sales (Million Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 90. Glenair Main Business

Table 91. Glenair Latest Developments

Table 92. Hutchinson Basic Information, Nuclear Grade O-Rings Manufacturing Base, Sales Area and Its Competitors

Table 93. Hutchinson Nuclear Grade O-Rings Product Portfolios and Specifications

Table 94. Hutchinson Nuclear Grade O-Rings Sales (Million Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)

Table 95. Hutchinson Main Business

Table 96. Hutchinson Latest Developments

- Table 97. INEM Co., Ltd Basic Information, Nuclear Grade O-Rings Manufacturing Base, Sales Area and Its Competitors
- Table 98. INEM Co., Ltd Nuclear Grade O-Rings Product Portfolios and Specifications
- Table 99. INEM Co., Ltd Nuclear Grade O-Rings Sales (Million Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)
- Table 100. INEM Co., Ltd Main Business
- Table 101. INEM Co., Ltd Latest Developments
- Table 102. James Walker Basic Information, Nuclear Grade O-Rings Manufacturing Base, Sales Area and Its Competitors
- Table 103. James Walker Nuclear Grade O-Rings Product Portfolios and Specifications
- Table 104. James Walker Nuclear Grade O-Rings Sales (Million Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)
- Table 105. James Walker Main Business
- Table 106. James Walker Latest Developments
- Table 107. M Barnwell Services Basic Information, Nuclear Grade O-Rings Manufacturing Base, Sales Area and Its Competitors
- Table 108. M Barnwell Services Nuclear Grade O-Rings Product Portfolios and Specifications
- Table 109. M Barnwell Services Nuclear Grade O-Rings Sales (Million Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)
- Table 110. M Barnwell Services Main Business
- Table 111. M Barnwell Services Latest Developments
- Table 112. Munaco Basic Information, Nuclear Grade O-Rings Manufacturing Base, Sales Area and Its Competitors
- Table 113. Munaco Nuclear Grade O-Rings Product Portfolios and Specifications
- Table 114. Munaco Nuclear Grade O-Rings Sales (Million Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)
- Table 115. Munaco Main Business
- Table 116. Munaco Latest Developments
- Table 117. Omniseal Solutions Basic Information, Nuclear Grade O-Rings Manufacturing Base, Sales Area and Its Competitors
- Table 118. Omniseal Solutions Nuclear Grade O-Rings Product Portfolios and Specifications
- Table 119. Omniseal Solutions Nuclear Grade O-Rings Sales (Million Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)
- Table 120. Omniseal Solutions Main Business
- Table 121. Omniseal Solutions Latest Developments
- Table 122. Parker Basic Information, Nuclear Grade O-Rings Manufacturing Base, Sales Area and Its Competitors

- Table 123. Parker Nuclear Grade O-Rings Product Portfolios and Specifications
- Table 124. Parker Nuclear Grade O-Rings Sales (Million Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)
- Table 125. Parker Main Business
- Table 126. Parker Latest Developments
- Table 127. Superior Tube Basic Information, Nuclear Grade O-Rings Manufacturing Base, Sales Area and Its Competitors
- Table 128. Superior Tube Nuclear Grade O-Rings Product Portfolios and Specifications
- Table 129. Superior Tube Nuclear Grade O-Rings Sales (Million Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)
- Table 130. Superior Tube Main Business
- Table 131. Superior Tube Latest Developments
- Table 132. Technetics Group Basic Information, Nuclear Grade O-Rings Manufacturing Base, Sales Area and Its Competitors
- Table 133. Technetics Group Nuclear Grade O-Rings Product Portfolios and Specifications
- Table 134. Technetics Group Nuclear Grade O-Rings Sales (Million Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)
- Table 135. Technetics Group Main Business
- Table 136. Technetics Group Latest Developments
- Table 137. TRP Polymer Solutions Basic Information, Nuclear Grade O-Rings Manufacturing Base, Sales Area and Its Competitors
- Table 138. TRP Polymer Solutions Nuclear Grade O-Rings Product Portfolios and Specifications
- Table 139. TRP Polymer Solutions Nuclear Grade O-Rings Sales (Million Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)
- Table 140. TRP Polymer Solutions Main Business
- Table 141. TRP Polymer Solutions Latest Developments
- Table 142. Haohua Chemical Basic Information, Nuclear Grade O-Rings Manufacturing Base, Sales Area and Its Competitors
- Table 143. Haohua Chemical Nuclear Grade O-Rings Product Portfolios and Specifications
- Table 144. Haohua Chemical Nuclear Grade O-Rings Sales (Million Units), Revenue (\$ Million), Price (US\$/Unit) and Gross Margin (2021-2026)
- Table 145. Haohua Chemical Main Business
- Table 146. Haohua Chemical Latest Developments

List Of Figures

LIST OF FIGURES

- Figure 1. Picture of Nuclear Grade O-Rings
- Figure 2. Nuclear Grade O-Rings Report Years Considered
- Figure 3. Research Objectives
- Figure 4. Research Methodology
- Figure 5. Research Process and Data Source
- Figure 6. Global Nuclear Grade O-Rings Sales Growth Rate 2021-2032 (Million Units)
- Figure 7. Global Nuclear Grade O-Rings Revenue Growth Rate 2021-2032 (\$ millions)
- Figure 8. Nuclear Grade O-Rings Sales by Geographic Region (2021, 2025 & 2032) & (\$ millions)
- Figure 9. Nuclear Grade O-Rings Sales Market Share by Country/Region (2025)
- Figure 10. Nuclear Grade O-Rings Sales Market Share by Country/Region (2021, 2025 & 2032)
- Figure 11. Product Picture of High Radiation Tolerance (10⁷-10⁸ Gy)
- Figure 12. Product Picture of Medium Radiation Tolerance (10⁶-10⁷ Gy)
- Figure 13. Product Picture of Low Radiation Tolerance (Below 10⁶ Gy)
- Figure 14. Global Nuclear Grade O-Rings Sales Market Share by Type in 2026
- Figure 15. Global Nuclear Grade O-Rings Revenue Market Share by Type (2021-2026)
- Figure 16. Product Picture of Fluororubber O-rings
- Figure 17. Product Picture of Silicone rubber O-rings
- Figure 18. Product Picture of Metal O-rings
- Figure 19. Product Picture of Others
- Figure 20. Global Nuclear Grade O-Rings Sales Market Share by Material in 2026
- Figure 21. Global Nuclear Grade O-Rings Revenue Market Share by Material (2021-2026)
- Figure 22. Nuclear Grade O-Rings Consumed in Reactor Pressure Vessel
- Figure 23. Global Nuclear Grade O-Rings Market: Reactor Pressure Vessel (2021-2026) & (Million Units)
- Figure 24. Nuclear Grade O-Rings Consumed in Fuel Handling Passages
- Figure 25. Global Nuclear Grade O-Rings Market: Fuel Handling Passages (2021-2026) & (Million Units)
- Figure 26. Nuclear Grade O-Rings Consumed in Control Rod Drive Mechanism
- Figure 27. Global Nuclear Grade O-Rings Market: Control Rod Drive Mechanism (2021-2026) & (Million Units)
- Figure 28. Nuclear Grade O-Rings Consumed in Nuclear-grade Valves
- Figure 29. Global Nuclear Grade O-Rings Market: Nuclear-grade Valves (2021-2026) &

(Million Units)

Figure 30. Nuclear Grade O-Rings Consumed in Others

Figure 31. Global Nuclear Grade O-Rings Market: Others (2021-2026) & (Million Units)

Figure 32. Global Nuclear Grade O-Rings Sale Market Share by Application (2025)

Figure 33. Global Nuclear Grade O-Rings Revenue Market Share by Application in 2025

Figure 34. Nuclear Grade O-Rings Sales by Company in 2025 (Million Units)

Figure 35. Global Nuclear Grade O-Rings Sales Market Share by Company in 2025

Figure 36. Nuclear Grade O-Rings Revenue by Company in 2025 (\$ millions)

Figure 37. Global Nuclear Grade O-Rings Revenue Market Share by Company in 2025

Figure 38. Global Nuclear Grade O-Rings Sales Market Share by Geographic Region (2021-2026)

Figure 39. Global Nuclear Grade O-Rings Revenue Market Share by Geographic Region in 2025

Figure 40. Americas Nuclear Grade O-Rings Sales 2021-2026 (Million Units)

Figure 41. Americas Nuclear Grade O-Rings Revenue 2021-2026 (\$ millions)

Figure 42. APAC Nuclear Grade O-Rings Sales 2021-2026 (Million Units)

Figure 43. APAC Nuclear Grade O-Rings Revenue 2021-2026 (\$ millions)

Figure 44. Europe Nuclear Grade O-Rings Sales 2021-2026 (Million Units)

Figure 45. Europe Nuclear Grade O-Rings Revenue 2021-2026 (\$ millions)

Figure 46. Middle East & Africa Nuclear Grade O-Rings Sales 2021-2026 (Million Units)

Figure 47. Middle East & Africa Nuclear Grade O-Rings Revenue 2021-2026 (\$ millions)

Figure 48. Americas Nuclear Grade O-Rings Sales Market Share by Country in 2025

Figure 49. Americas Nuclear Grade O-Rings Revenue Market Share by Country (2021-2026)

Figure 50. Americas Nuclear Grade O-Rings Sales Market Share by Type (2021-2026)

Figure 51. Americas Nuclear Grade O-Rings Sales Market Share by Application (2021-2026)

Figure 52. United States Nuclear Grade O-Rings Revenue Growth 2021-2026 (\$ millions)

Figure 53. Canada Nuclear Grade O-Rings Revenue Growth 2021-2026 (\$ millions)

Figure 54. Mexico Nuclear Grade O-Rings Revenue Growth 2021-2026 (\$ millions)

Figure 55. Brazil Nuclear Grade O-Rings Revenue Growth 2021-2026 (\$ millions)

Figure 56. APAC Nuclear Grade O-Rings Sales Market Share by Region in 2025

Figure 57. APAC Nuclear Grade O-Rings Revenue Market Share by Region (2021-2026)

Figure 58. APAC Nuclear Grade O-Rings Sales Market Share by Type (2021-2026)

Figure 59. APAC Nuclear Grade O-Rings Sales Market Share by Application (2021-2026)

Figure 60. China Nuclear Grade O-Rings Revenue Growth 2021-2026 (\$ millions)

Figure 61. Japan Nuclear Grade O-Rings Revenue Growth 2021-2026 (\$ millions)

Figure 62. South Korea Nuclear Grade O-Rings Revenue Growth 2021-2026 (\$ millions)

Figure 63. Southeast Asia Nuclear Grade O-Rings Revenue Growth 2021-2026 (\$ millions)

Figure 64. India Nuclear Grade O-Rings Revenue Growth 2021-2026 (\$ millions)

Figure 65. Australia Nuclear Grade O-Rings Revenue Growth 2021-2026 (\$ millions)

Figure 66. China Taiwan Nuclear Grade O-Rings Revenue Growth 2021-2026 (\$ millions)

Figure 67. Europe Nuclear Grade O-Rings Sales Market Share by Country in 2025

Figure 68. Europe Nuclear Grade O-Rings Revenue Market Share by Country (2021-2026)

Figure 69. Europe Nuclear Grade O-Rings Sales Market Share by Type (2021-2026)

Figure 70. Europe Nuclear Grade O-Rings Sales Market Share by Application (2021-2026)

Figure 71. Germany Nuclear Grade O-Rings Revenue Growth 2021-2026 (\$ millions)

Figure 72. France Nuclear Grade O-Rings Revenue Growth 2021-2026 (\$ millions)

Figure 73. UK Nuclear Grade O-Rings Revenue Growth 2021-2026 (\$ millions)

Figure 74. Italy Nuclear Grade O-Rings Revenue Growth 2021-2026 (\$ millions)

Figure 75. Russia Nuclear Grade O-Rings Revenue Growth 2021-2026 (\$ millions)

Figure 76. Middle East & Africa Nuclear Grade O-Rings Sales Market Share by Country (2021-2026)

Figure 77. Middle East & Africa Nuclear Grade O-Rings Sales Market Share by Type (2021-2026)

Figure 78. Middle East & Africa Nuclear Grade O-Rings Sales Market Share by Application (2021-2026)

Figure 79. Egypt Nuclear Grade O-Rings Revenue Growth 2021-2026 (\$ millions)

Figure 80. South Africa Nuclear Grade O-Rings Revenue Growth 2021-2026 (\$ millions)

Figure 81. Israel Nuclear Grade O-Rings Revenue Growth 2021-2026 (\$ millions)

Figure 82. Turkey Nuclear Grade O-Rings Revenue Growth 2021-2026 (\$ millions)

Figure 83. GCC Countries Nuclear Grade O-Rings Revenue Growth 2021-2026 (\$ millions)

Figure 84. Manufacturing Cost Structure Analysis of Nuclear Grade O-Rings in 2026

Figure 85. Manufacturing Process Analysis of Nuclear Grade O-Rings

Figure 86. Industry Chain Structure of Nuclear Grade O-Rings

Figure 87. Channels of Distribution

Figure 88. Global Nuclear Grade O-Rings Sales Market Forecast by Region (2027-2032)

Figure 89. Global Nuclear Grade O-Rings Revenue Market Share Forecast by Region (2027-2032)

Figure 90. Global Nuclear Grade O-Rings Sales Market Share Forecast by Type (2027-2032)

Figure 91. Global Nuclear Grade O-Rings Revenue Market Share Forecast by Type (2027-2032)

Figure 92. Global Nuclear Grade O-Rings Sales Market Share Forecast by Application (2027-2032)

Figure 93. Global Nuclear Grade O-Rings Revenue Market Share Forecast by Application (2027-2032)

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