

Global Radiation-Resistant Seals Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Radiation-Resistant Seals market size is expected to reach \$ 614 million by 2032, rising at a market growth of 5.4% CAGR during the forecast period (2026-2032).

Radiation-resistant seals are components specifically designed to maintain structural integrity and sealing performance in high-radiation environments, such as nuclear power plants, medical radiation equipment, and aerospace applications. These seals typically utilize radiation-resistant polymers, elastomers, or metal composites, with additives that resist radiation degradation, thermal stress, and chemical corrosion. They ensure the safe sealing of gases, liquids, and radioactive materials in harsh environments while maintaining mechanical properties. Radiation-resistant seals are crucial for operational safety, reliability, and compliance with stringent industry standards. The radiation-resistant seal industry chain includes upstream raw materials such as radiation-resistant polymers, elastomers, fillers, and additives. The midstream involves batching, molding, machining, and parts quality inspection. Downstream applications cover nuclear power facilities, medical radiotherapy equipment, aerospace engineering, and industrial equipment requiring high reliability operation in radiation environments. Supporting services include material testing, certification, and maintenance to ensure long-term performance and safety compliance. In 2025, the global production of radiation-resistant seals was approximately 14.7 million units, with a global average market price of approximately US\$28 per unit. The gross profit margin of major companies in the industry ranges from 25% to 40%. In 2025, the global production capacity of radiation-resistant seals will be approximately 19.6 million units.

The market for Radiation-Resistant Seals is driven by the growing demand for safe and reliable operations in nuclear, medical, and aerospace sectors. Increasing deployment of nuclear power plants, advanced radiotherapy equipment, and space missions is

boosting demand for seals that can withstand high radiation, temperature fluctuations, and chemical exposure. Innovations in polymer composites and elastomer formulations are enhancing radiation resistance, durability, and sealing performance. Regulatory requirements and strict industrial standards ensure consistent quality and long-term reliability. The shift toward cleaner energy and expanding healthcare infrastructure is also contributing to market growth. As industries prioritize safety, reliability, and compliance, the global market for radiation-resistant seals is expected to expand steadily in the coming years.

This report studies the global Radiation-Resistant Seals production, demand, key manufacturers, and key regions.

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

Highlights and key features of the study

Global Radiation-Resistant Seals total production and demand, 2021-2032, (K Units)

Global Radiation-Resistant Seals total production value, 2021-2032, (USD Million)

Global Radiation-Resistant Seals production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Units), (based on production site)

Global Radiation-Resistant Seals consumption by region & country, CAGR, 2021-2032 & (K Units)

U.S. VS China: Radiation-Resistant Seals domestic production, consumption, key domestic manufacturers and share

Global Radiation-Resistant Seals production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Units)

Global Radiation-Resistant Seals production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

Global Radiation-Resistant Seals production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

This report profiles key players in the global Radiation-Resistant Seals 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 James Walker, JetSeal, TRP Polymer Solutions, Groupe Latty, Huntchinson, Huron Industries, Canyon Components, BORFLEX, Ceetak, EagleBurgmann, 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 Radiation-Resistant Seals market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (K Units) and average price (US\$/Unit) 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 Radiation-Resistant Seals Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Radiation-Resistant Seals Market, Segmentation by Type:

Ethylene-Propylene (EPDM) Based Shieldseal Materials

Fluoroelastomer (FKM) Mased Shieldseal Material

Nitrile (NBR) Based Shieldseal Material

Others

Global Radiation-Resistant Seals Market, Segmentation by Seal Geometry:

O-rings

Quad Rings

Lip Seals

Gaskets (Flat or Spiral-wound)

Custom Molded Seals

Global Radiation-Resistant Seals Market, Segmentation by Structural Form:

Contact Seal

Non-contact Seal

Global Radiation-Resistant Seals Market, Segmentation by Application:

Nuclear Industry

Aerospace

Medical

Others

Companies Profiled:

James Walker

JetSeal

TRP Polymer Solutions

Groupe Latty

Huntchinson

Huron Industries

Canyon Components

BORFLEX

Ceetak

EagleBurgmann

Seal Master Corporation

Hubner

Key Questions Answered:

1. How big is the global Radiation-Resistant Seals market?
2. What is the demand of the global Radiation-Resistant Seals market?
3. What is the year over year growth of the global Radiation-Resistant Seals market?
4. What is the production and production value of the global Radiation-Resistant Seals

market?

5. Who are the key producers in the global Radiation-Resistant Seals market?

6. What are the growth factors driving the market demand?

Contents

1 SUPPLY SUMMARY

- 1.1 Radiation-Resistant Seals Introduction
- 1.2 World Radiation-Resistant Seals Supply & Forecast
 - 1.2.1 World Radiation-Resistant Seals Production Value (2021 & 2025 & 2032)
 - 1.2.2 World Radiation-Resistant Seals Production (2021-2032)
 - 1.2.3 World Radiation-Resistant Seals Pricing Trends (2021-2032)
- 1.3 World Radiation-Resistant Seals Production by Region (Based on Production Site)
 - 1.3.1 World Radiation-Resistant Seals Production Value by Region (2021-2032)
 - 1.3.2 World Radiation-Resistant Seals Production by Region (2021-2032)
 - 1.3.3 World Radiation-Resistant Seals Average Price by Region (2021-2032)
 - 1.3.4 North America Radiation-Resistant Seals Production (2021-2032)
 - 1.3.5 Europe Radiation-Resistant Seals Production (2021-2032)
 - 1.3.6 China Radiation-Resistant Seals Production (2021-2032)
 - 1.3.7 Japan Radiation-Resistant Seals Production (2021-2032)
- 1.4 Market Drivers, Restraints and Trends
 - 1.4.1 Radiation-Resistant Seals Market Drivers
 - 1.4.2 Factors Affecting Demand
 - 1.4.3 Radiation-Resistant Seals Major Market Trends

2 DEMAND SUMMARY

- 2.1 World Radiation-Resistant Seals Demand (2021-2032)
- 2.2 World Radiation-Resistant Seals Consumption by Region
 - 2.2.1 World Radiation-Resistant Seals Consumption by Region (2021-2026)
 - 2.2.2 World Radiation-Resistant Seals Consumption Forecast by Region (2027-2032)
- 2.3 United States Radiation-Resistant Seals Consumption (2021-2032)
- 2.4 China Radiation-Resistant Seals Consumption (2021-2032)
- 2.5 Europe Radiation-Resistant Seals Consumption (2021-2032)
- 2.6 Japan Radiation-Resistant Seals Consumption (2021-2032)
- 2.7 South Korea Radiation-Resistant Seals Consumption (2021-2032)
- 2.8 ASEAN Radiation-Resistant Seals Consumption (2021-2032)
- 2.9 India Radiation-Resistant Seals Consumption (2021-2032)

3 WORLD MANUFACTURERS COMPETITIVE ANALYSIS

- 3.1 World Radiation-Resistant Seals Production Value by Manufacturer (2021-2026)

- 3.2 World Radiation-Resistant Seals Production by Manufacturer (2021-2026)
- 3.3 World Radiation-Resistant Seals Average Price by Manufacturer (2021-2026)
- 3.4 Radiation-Resistant Seals Company Evaluation Quadrant
- 3.5 Industry Rank and Concentration Rate (CR)
 - 3.5.1 Global Radiation-Resistant Seals Industry Rank of Major Manufacturers
 - 3.5.2 Global Concentration Ratios (CR4) for Radiation-Resistant Seals in 2025
 - 3.5.3 Global Concentration Ratios (CR8) for Radiation-Resistant Seals in 2025
- 3.6 Radiation-Resistant Seals Market: Overall Company Footprint Analysis
 - 3.6.1 Radiation-Resistant Seals Market: Region Footprint
 - 3.6.2 Radiation-Resistant Seals Market: Company Product Type Footprint
 - 3.6.3 Radiation-Resistant Seals Market: Company Product Application Footprint
- 3.7 Competitive Environment
 - 3.7.1 Historical Structure of the Industry
 - 3.7.2 Barriers of Market Entry
 - 3.7.3 Factors of Competition
- 3.8 New Entrant and Capacity Expansion Plans
- 3.9 Mergers, Acquisition, Agreements, and Collaborations

4 UNITED STATES VS CHINA VS REST OF THE WORLD

- 4.1 United States VS China: Radiation-Resistant Seals Production Value Comparison
 - 4.1.1 United States VS China: Radiation-Resistant Seals Production Value Comparison (2021 & 2025 & 2032)
 - 4.1.2 United States VS China: Radiation-Resistant Seals Production Value Market Share Comparison (2021 & 2025 & 2032)
- 4.2 United States VS China: Radiation-Resistant Seals Production Comparison
 - 4.2.1 United States VS China: Radiation-Resistant Seals Production Comparison (2021 & 2025 & 2032)
 - 4.2.2 United States VS China: Radiation-Resistant Seals Production Market Share Comparison (2021 & 2025 & 2032)
- 4.3 United States VS China: Radiation-Resistant Seals Consumption Comparison
 - 4.3.1 United States VS China: Radiation-Resistant Seals Consumption Comparison (2021 & 2025 & 2032)
 - 4.3.2 United States VS China: Radiation-Resistant Seals Consumption Market Share Comparison (2021 & 2025 & 2032)
- 4.4 United States Based Radiation-Resistant Seals Manufacturers and Market Share, 2021-2026
 - 4.4.1 United States Based Radiation-Resistant Seals Manufacturers, Headquarters and Production Site (States, Country)

4.4.2 United States Based Manufacturers Radiation-Resistant Seals Production Value (2021-2026)

4.4.3 United States Based Manufacturers Radiation-Resistant Seals Production (2021-2026)

4.5 China Based Radiation-Resistant Seals Manufacturers and Market Share

4.5.1 China Based Radiation-Resistant Seals Manufacturers, Headquarters and Production Site (Province, Country)

4.5.2 China Based Manufacturers Radiation-Resistant Seals Production Value (2021-2026)

4.5.3 China Based Manufacturers Radiation-Resistant Seals Production (2021-2026)

4.6 Rest of World Based Radiation-Resistant Seals Manufacturers and Market Share, 2021-2026

4.6.1 Rest of World Based Radiation-Resistant Seals Manufacturers, Headquarters and Production Site (State, Country)

4.6.2 Rest of World Based Manufacturers Radiation-Resistant Seals Production Value (2021-2026)

4.6.3 Rest of World Based Manufacturers Radiation-Resistant Seals Production (2021-2026)

5 MARKET ANALYSIS BY TYPE

5.1 World Radiation-Resistant Seals Market Size Overview by Type: 2021 VS 2025 VS 2032

5.2 Segment Introduction by Type

5.2.1 Ethylene-Propylene (EPDM) Based Shieldseal Materials

5.2.2 Fluoroelastomer (FKM) Mased Shieldseal Material

5.2.3 Nitrile (NBR) Based Shieldseal Material

5.2.4 Others

5.3 Market Segment by Type

5.3.1 World Radiation-Resistant Seals Production by Type (2021-2032)

5.3.2 World Radiation-Resistant Seals Production Value by Type (2021-2032)

5.3.3 World Radiation-Resistant Seals Average Price by Type (2021-2032)

6 MARKET ANALYSIS BY SEAL GEOMETRY

6.1 World Radiation-Resistant Seals Market Size Overview by Seal Geometry: 2021 VS 2025 VS 2032

6.2 Segment Introduction by Seal Geometry

6.2.1 O-rings

- 6.2.2 Quad Rings
- 6.2.3 Lip Seals
- 6.2.4 Gaskets (Flat or Spiral-wound)
- 6.2.5 Custom Molded Seals
- 6.3 Market Segment by Seal Geometry
 - 6.3.1 World Radiation-Resistant Seals Production by Seal Geometry (2021-2032)
 - 6.3.2 World Radiation-Resistant Seals Production Value by Seal Geometry (2021-2032)
 - 6.3.3 World Radiation-Resistant Seals Average Price by Seal Geometry (2021-2032)

7 MARKET ANALYSIS BY STRUCTURAL FORM

- 7.1 World Radiation-Resistant Seals Market Size Overview by Structural Form: 2021 VS 2025 VS 2032
- 7.2 Segment Introduction by Structural Form
 - 7.2.1 Contact Seal
 - 7.2.2 Non-contact Seal
- 7.3 Market Segment by Structural Form
 - 7.3.1 World Radiation-Resistant Seals Production by Structural Form (2021-2032)
 - 7.3.2 World Radiation-Resistant Seals Production Value by Structural Form (2021-2032)
 - 7.3.3 World Radiation-Resistant Seals Average Price by Structural Form (2021-2032)

8 MARKET ANALYSIS BY APPLICATION

- 8.1 World Radiation-Resistant Seals Market Size Overview by Application: 2021 VS 2025 VS 2032
- 8.2 Segment Introduction by Application
 - 8.2.1 Nuclear Industry
 - 8.2.2 Aerospace
 - 8.2.3 Medical
 - 8.2.4 Others
- 8.3 Market Segment by Application
 - 8.3.1 World Radiation-Resistant Seals Production by Application (2021-2032)
 - 8.3.2 World Radiation-Resistant Seals Production Value by Application (2021-2032)
 - 8.3.3 World Radiation-Resistant Seals Average Price by Application (2021-2032)

9 COMPANY PROFILES

9.1 James Walker

9.1.1 James Walker Details

9.1.2 James Walker Major Business

9.1.3 James Walker Radiation-Resistant Seals Product and Services

9.1.4 James Walker Radiation-Resistant Seals Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.1.5 James Walker Recent Developments/Updates

9.1.6 James Walker Competitive Strengths & Weaknesses

9.2 JetSeal

9.2.1 JetSeal Details

9.2.2 JetSeal Major Business

9.2.3 JetSeal Radiation-Resistant Seals Product and Services

9.2.4 JetSeal Radiation-Resistant Seals Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.2.5 JetSeal Recent Developments/Updates

9.2.6 JetSeal Competitive Strengths & Weaknesses

9.3 TRP Polymer Solutions

9.3.1 TRP Polymer Solutions Details

9.3.2 TRP Polymer Solutions Major Business

9.3.3 TRP Polymer Solutions Radiation-Resistant Seals Product and Services

9.3.4 TRP Polymer Solutions Radiation-Resistant Seals Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.3.5 TRP Polymer Solutions Recent Developments/Updates

9.3.6 TRP Polymer Solutions Competitive Strengths & Weaknesses

9.4 Groupe Latty

9.4.1 Groupe Latty Details

9.4.2 Groupe Latty Major Business

9.4.3 Groupe Latty Radiation-Resistant Seals Product and Services

9.4.4 Groupe Latty Radiation-Resistant Seals Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.4.5 Groupe Latty Recent Developments/Updates

9.4.6 Groupe Latty Competitive Strengths & Weaknesses

9.5 Huntchinson

9.5.1 Huntchinson Details

9.5.2 Huntchinson Major Business

9.5.3 Huntchinson Radiation-Resistant Seals Product and Services

9.5.4 Huntchinson Radiation-Resistant Seals Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.5.5 Huntchinson Recent Developments/Updates

- 9.5.6 Huntchinson Competitive Strengths & Weaknesses
- 9.6 Huron Industries
 - 9.6.1 Huron Industries Details
 - 9.6.2 Huron Industries Major Business
 - 9.6.3 Huron Industries Radiation-Resistant Seals Product and Services
 - 9.6.4 Huron Industries Radiation-Resistant Seals Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.6.5 Huron Industries Recent Developments/Updates
 - 9.6.6 Huron Industries Competitive Strengths & Weaknesses
- 9.7 Canyon Components
 - 9.7.1 Canyon Components Details
 - 9.7.2 Canyon Components Major Business
 - 9.7.3 Canyon Components Radiation-Resistant Seals Product and Services
 - 9.7.4 Canyon Components Radiation-Resistant Seals Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.7.5 Canyon Components Recent Developments/Updates
 - 9.7.6 Canyon Components Competitive Strengths & Weaknesses
- 9.8 BORFLEX
 - 9.8.1 BORFLEX Details
 - 9.8.2 BORFLEX Major Business
 - 9.8.3 BORFLEX Radiation-Resistant Seals Product and Services
 - 9.8.4 BORFLEX Radiation-Resistant Seals Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.8.5 BORFLEX Recent Developments/Updates
 - 9.8.6 BORFLEX Competitive Strengths & Weaknesses
- 9.9 Ceetak
 - 9.9.1 Ceetak Details
 - 9.9.2 Ceetak Major Business
 - 9.9.3 Ceetak Radiation-Resistant Seals Product and Services
 - 9.9.4 Ceetak Radiation-Resistant Seals Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.9.5 Ceetak Recent Developments/Updates
 - 9.9.6 Ceetak Competitive Strengths & Weaknesses
- 9.10 EagleBurgmann
 - 9.10.1 EagleBurgmann Details
 - 9.10.2 EagleBurgmann Major Business
 - 9.10.3 EagleBurgmann Radiation-Resistant Seals Product and Services
 - 9.10.4 EagleBurgmann Radiation-Resistant Seals Production, Price, Value, Gross Margin and Market Share (2021-2026)

- 9.10.5 EagleBurgmann Recent Developments/Updates
- 9.10.6 EagleBurgmann Competitive Strengths & Weaknesses
- 9.11 Seal Master Corporation
 - 9.11.1 Seal Master Corporation Details
 - 9.11.2 Seal Master Corporation Major Business
 - 9.11.3 Seal Master Corporation Radiation-Resistant Seals Product and Services
 - 9.11.4 Seal Master Corporation Radiation-Resistant Seals Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.11.5 Seal Master Corporation Recent Developments/Updates
 - 9.11.6 Seal Master Corporation Competitive Strengths & Weaknesses
- 9.12 Hubner
 - 9.12.1 Hubner Details
 - 9.12.2 Hubner Major Business
 - 9.12.3 Hubner Radiation-Resistant Seals Product and Services
 - 9.12.4 Hubner Radiation-Resistant Seals Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.12.5 Hubner Recent Developments/Updates
 - 9.12.6 Hubner Competitive Strengths & Weaknesses

10 INDUSTRY CHAIN ANALYSIS

- 10.1 Radiation-Resistant Seals Industry Chain
- 10.2 Radiation-Resistant Seals Upstream Analysis
 - 10.2.1 Radiation-Resistant Seals Core Raw Materials
 - 10.2.2 Main Manufacturers of Radiation-Resistant Seals Core Raw Materials
- 10.3 Midstream Analysis
- 10.4 Downstream Analysis
- 10.5 Radiation-Resistant Seals Production Mode
- 10.6 Radiation-Resistant Seals Procurement Model
- 10.7 Radiation-Resistant Seals Industry Sales Model and Sales Channels
 - 10.7.1 Radiation-Resistant Seals Sales Model
 - 10.7.2 Radiation-Resistant Seals Typical Distributors

11 RESEARCH FINDINGS AND CONCLUSION

12 APPENDIX

- 12.1 Methodology
- 12.2 Research Process and Data Source

12.3 Disclaimer

List Of Tables

LIST OF TABLES

Table 1. World Radiation-Resistant Seals Production Value by Region (2021, 2025 and 2032) & (USD Million)

Table 2. World Radiation-Resistant Seals Production Value by Region (2021-2026) & (USD Million)

Table 3. World Radiation-Resistant Seals Production Value by Region (2027-2032) & (USD Million)

Table 4. World Radiation-Resistant Seals Production Value Market Share by Region (2021-2026)

Table 5. World Radiation-Resistant Seals Production Value Market Share by Region (2027-2032)

Table 6. World Radiation-Resistant Seals Production by Region (2021-2026) & (K Units)

Table 7. World Radiation-Resistant Seals Production by Region (2027-2032) & (K Units)

Table 8. World Radiation-Resistant Seals Production Market Share by Region (2021-2026)

Table 9. World Radiation-Resistant Seals Production Market Share by Region (2027-2032)

Table 10. World Radiation-Resistant Seals Average Price by Region (2021-2026) & (US\$/Unit)

Table 11. World Radiation-Resistant Seals Average Price by Region (2027-2032) & (US\$/Unit)

Table 12. Radiation-Resistant Seals Major Market Trends

Table 13. World Radiation-Resistant Seals Consumption Growth Rate Forecast by Region (2021 & 2025 & 2032) & (K Units)

Table 14. World Radiation-Resistant Seals Consumption by Region (2021-2026) & (K Units)

Table 15. World Radiation-Resistant Seals Consumption Forecast by Region (2027-2032) & (K Units)

Table 16. World Radiation-Resistant Seals Production Value by Manufacturer (2021-2026) & (USD Million)

Table 17. Production Value Market Share of Key Radiation-Resistant Seals Producers in 2025

Table 18. World Radiation-Resistant Seals Production by Manufacturer (2021-2026) & (K Units)

Table 19. Production Market Share of Key Radiation-Resistant Seals Producers in 2025

Table 20. World Radiation-Resistant Seals Average Price by Manufacturer (2021-2026)

& (US\$/Unit)

Table 21. Global Radiation-Resistant Seals Company Evaluation Quadrant

Table 22. World Radiation-Resistant Seals Industry Rank of Major Manufacturers, Based on Production Value in 2025

Table 23. Head Office and Radiation-Resistant Seals Production Site of Key Manufacturer

Table 24. Radiation-Resistant Seals Market: Company Product Type Footprint

Table 25. Radiation-Resistant Seals Market: Company Product Application Footprint

Table 26. Radiation-Resistant Seals Competitive Factors

Table 27. Radiation-Resistant Seals New Entrant and Capacity Expansion Plans

Table 28. Radiation-Resistant Seals Mergers & Acquisitions Activity

Table 29. United States VS China Radiation-Resistant Seals Production Value Comparison, (2021 & 2025 & 2032) & (USD Million)

Table 30. United States VS China Radiation-Resistant Seals Production Comparison, (2021 & 2025 & 2032) & (K Units)

Table 31. United States VS China Radiation-Resistant Seals Consumption Comparison, (2021 & 2025 & 2032) & (K Units)

Table 32. United States Based Radiation-Resistant Seals Manufacturers, Headquarters and Production Site (States, Country)

Table 33. United States Based Manufacturers Radiation-Resistant Seals Production Value, (2021-2026) & (USD Million)

Table 34. United States Based Manufacturers Radiation-Resistant Seals Production Value Market Share (2021-2026)

Table 35. United States Based Manufacturers Radiation-Resistant Seals Production (2021-2026) & (K Units)

Table 36. United States Based Manufacturers Radiation-Resistant Seals Production Market Share (2021-2026)

Table 37. China Based Radiation-Resistant Seals Manufacturers, Headquarters and Production Site (Province, Country)

Table 38. China Based Manufacturers Radiation-Resistant Seals Production Value, (2021-2026) & (USD Million)

Table 39. China Based Manufacturers Radiation-Resistant Seals Production Value Market Share (2021-2026)

Table 40. China Based Manufacturers Radiation-Resistant Seals Production, (2021-2026) & (K Units)

Table 41. China Based Manufacturers Radiation-Resistant Seals Production Market Share (2021-2026)

Table 42. Rest of World Based Radiation-Resistant Seals Manufacturers, Headquarters and Production Site (State, Country)

Table 43. Rest of World Based Manufacturers Radiation-Resistant Seals Production Value, (2021-2026) & (USD Million)

Table 44. Rest of World Based Manufacturers Radiation-Resistant Seals Production Value Market Share (2021-2026)

Table 45. Rest of World Based Manufacturers Radiation-Resistant Seals Production, (2021-2026) & (K Units)

Table 46. Rest of World Based Manufacturers Radiation-Resistant Seals Production Market Share (2021-2026)

Table 47. World Radiation-Resistant Seals Production Value by Type, (USD Million), 2021 & 2025 & 2032

Table 48. World Radiation-Resistant Seals Production by Type (2021-2026) & (K Units)

Table 49. World Radiation-Resistant Seals Production by Type (2027-2032) & (K Units)

Table 50. World Radiation-Resistant Seals Production Value by Type (2021-2026) & (USD Million)

Table 51. World Radiation-Resistant Seals Production Value by Type (2027-2032) & (USD Million)

Table 52. World Radiation-Resistant Seals Average Price by Type (2021-2026) & (US\$/Unit)

Table 53. World Radiation-Resistant Seals Average Price by Type (2027-2032) & (US\$/Unit)

Table 54. World Radiation-Resistant Seals Production Value by Seal Geometry, (USD Million), 2021 & 2025 & 2032

Table 55. World Radiation-Resistant Seals Production by Seal Geometry (2021-2026) & (K Units)

Table 56. World Radiation-Resistant Seals Production by Seal Geometry (2027-2032) & (K Units)

Table 57. World Radiation-Resistant Seals Production Value by Seal Geometry (2021-2026) & (USD Million)

Table 58. World Radiation-Resistant Seals Production Value by Seal Geometry (2027-2032) & (USD Million)

Table 59. World Radiation-Resistant Seals Average Price by Seal Geometry (2021-2026) & (US\$/Unit)

Table 60. World Radiation-Resistant Seals Average Price by Seal Geometry (2027-2032) & (US\$/Unit)

Table 61. World Radiation-Resistant Seals Production Value by Structural Form, (USD Million), 2021 & 2025 & 2032

Table 62. World Radiation-Resistant Seals Production by Structural Form (2021-2026) & (K Units)

Table 63. World Radiation-Resistant Seals Production by Structural Form (2027-2032)

& (K Units)

Table 64. World Radiation-Resistant Seals Production Value by Structural Form (2021-2026) & (USD Million)

Table 65. World Radiation-Resistant Seals Production Value by Structural Form (2027-2032) & (USD Million)

Table 66. World Radiation-Resistant Seals Average Price by Structural Form (2021-2026) & (US\$/Unit)

Table 67. World Radiation-Resistant Seals Average Price by Structural Form (2027-2032) & (US\$/Unit)

Table 68. World Radiation-Resistant Seals Production Value by Application, (USD Million), 2021 & 2025 & 2032

Table 69. World Radiation-Resistant Seals Production by Application (2021-2026) & (K Units)

Table 70. World Radiation-Resistant Seals Production by Application (2027-2032) & (K Units)

Table 71. World Radiation-Resistant Seals Production Value by Application (2021-2026) & (USD Million)

Table 72. World Radiation-Resistant Seals Production Value by Application (2027-2032) & (USD Million)

Table 73. World Radiation-Resistant Seals Average Price by Application (2021-2026) & (US\$/Unit)

Table 74. World Radiation-Resistant Seals Average Price by Application (2027-2032) & (US\$/Unit)

Table 75. James Walker Basic Information, Manufacturing Base and Competitors

Table 76. James Walker Major Business

Table 77. James Walker Radiation-Resistant Seals Product and Services

Table 78. James Walker Radiation-Resistant Seals Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 79. James Walker Recent Developments/Updates

Table 80. James Walker Competitive Strengths & Weaknesses

Table 81. JetSeal Basic Information, Manufacturing Base and Competitors

Table 82. JetSeal Major Business

Table 83. JetSeal Radiation-Resistant Seals Product and Services

Table 84. JetSeal Radiation-Resistant Seals Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 85. JetSeal Recent Developments/Updates

Table 86. JetSeal Competitive Strengths & Weaknesses

Table 87. TRP Polymer Solutions Basic Information, Manufacturing Base and

Competitors

Table 88. TRP Polymer Solutions Major Business

Table 89. TRP Polymer Solutions Radiation-Resistant Seals Product and Services

Table 90. TRP Polymer Solutions Radiation-Resistant Seals Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 91. TRP Polymer Solutions Recent Developments/Updates

Table 92. TRP Polymer Solutions Competitive Strengths & Weaknesses

Table 93. Groupe Latty Basic Information, Manufacturing Base and Competitors

Table 94. Groupe Latty Major Business

Table 95. Groupe Latty Radiation-Resistant Seals Product and Services

Table 96. Groupe Latty Radiation-Resistant Seals Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 97. Groupe Latty Recent Developments/Updates

Table 98. Groupe Latty Competitive Strengths & Weaknesses

Table 99. Hutchinson Basic Information, Manufacturing Base and Competitors

Table 100. Hutchinson Major Business

Table 101. Hutchinson Radiation-Resistant Seals Product and Services

Table 102. Hutchinson Radiation-Resistant Seals Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 103. Hutchinson Recent Developments/Updates

Table 104. Hutchinson Competitive Strengths & Weaknesses

Table 105. Huron Industries Basic Information, Manufacturing Base and Competitors

Table 106. Huron Industries Major Business

Table 107. Huron Industries Radiation-Resistant Seals Product and Services

Table 108. Huron Industries Radiation-Resistant Seals Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 109. Huron Industries Recent Developments/Updates

Table 110. Huron Industries Competitive Strengths & Weaknesses

Table 111. Canyon Components Basic Information, Manufacturing Base and Competitors

Table 112. Canyon Components Major Business

Table 113. Canyon Components Radiation-Resistant Seals Product and Services

Table 114. Canyon Components Radiation-Resistant Seals Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

- Table 115. Canyon Components Recent Developments/Updates
- Table 116. Canyon Components Competitive Strengths & Weaknesses
- Table 117. BORFLEX Basic Information, Manufacturing Base and Competitors
- Table 118. BORFLEX Major Business
- Table 119. BORFLEX Radiation-Resistant Seals Product and Services
- Table 120. BORFLEX Radiation-Resistant Seals Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 121. BORFLEX Recent Developments/Updates
- Table 122. BORFLEX Competitive Strengths & Weaknesses
- Table 123. Ceetak Basic Information, Manufacturing Base and Competitors
- Table 124. Ceetak Major Business
- Table 125. Ceetak Radiation-Resistant Seals Product and Services
- Table 126. Ceetak Radiation-Resistant Seals Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 127. Ceetak Recent Developments/Updates
- Table 128. Ceetak Competitive Strengths & Weaknesses
- Table 129. EagleBurgmann Basic Information, Manufacturing Base and Competitors
- Table 130. EagleBurgmann Major Business
- Table 131. EagleBurgmann Radiation-Resistant Seals Product and Services
- Table 132. EagleBurgmann Radiation-Resistant Seals Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 133. EagleBurgmann Recent Developments/Updates
- Table 134. EagleBurgmann Competitive Strengths & Weaknesses
- Table 135. Seal Master Corporation Basic Information, Manufacturing Base and Competitors
- Table 136. Seal Master Corporation Major Business
- Table 137. Seal Master Corporation Radiation-Resistant Seals Product and Services
- Table 138. Seal Master Corporation Radiation-Resistant Seals Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 139. Seal Master Corporation Recent Developments/Updates
- Table 140. Seal Master Corporation Competitive Strengths & Weaknesses
- Table 141. Hubner Basic Information, Manufacturing Base and Competitors
- Table 142. Hubner Major Business
- Table 143. Hubner Radiation-Resistant Seals Product and Services
- Table 144. Hubner Radiation-Resistant Seals Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 145. Hubner Recent Developments/Updates

Table 146. Hubner Competitive Strengths & Weaknesses

Table 147. Global Key Players of Radiation-Resistant Seals Upstream (Raw Materials)

Table 148. Global Radiation-Resistant Seals Typical Customers

Table 149. Radiation-Resistant Seals Typical Distributors

List Of Figures

LIST OF FIGURES

- Figure 1. Radiation-Resistant Seals Picture
- Figure 2. World Radiation-Resistant Seals Production Value: 2021 & 2025 & 2032, (USD Million)
- Figure 3. World Radiation-Resistant Seals Production Value and Forecast (2021-2032) & (USD Million)
- Figure 4. World Radiation-Resistant Seals Production (2021-2032) & (K Units)
- Figure 5. World Radiation-Resistant Seals Average Price (2021-2032) & (US\$/Unit)
- Figure 6. World Radiation-Resistant Seals Production Value Market Share by Region (2021-2032)
- Figure 7. World Radiation-Resistant Seals Production Market Share by Region (2021-2032)
- Figure 8. North America Radiation-Resistant Seals Production (2021-2032) & (K Units)
- Figure 9. Europe Radiation-Resistant Seals Production (2021-2032) & (K Units)
- Figure 10. China Radiation-Resistant Seals Production (2021-2032) & (K Units)
- Figure 11. Japan Radiation-Resistant Seals Production (2021-2032) & (K Units)
- Figure 12. Radiation-Resistant Seals Market Drivers
- Figure 13. Factors Affecting Demand
- Figure 14. World Radiation-Resistant Seals Consumption (2021-2032) & (K Units)
- Figure 15. World Radiation-Resistant Seals Consumption Market Share by Region (2021-2032)
- Figure 16. United States Radiation-Resistant Seals Consumption (2021-2032) & (K Units)
- Figure 17. China Radiation-Resistant Seals Consumption (2021-2032) & (K Units)
- Figure 18. Europe Radiation-Resistant Seals Consumption (2021-2032) & (K Units)
- Figure 19. Japan Radiation-Resistant Seals Consumption (2021-2032) & (K Units)
- Figure 20. South Korea Radiation-Resistant Seals Consumption (2021-2032) & (K Units)
- Figure 21. ASEAN Radiation-Resistant Seals Consumption (2021-2032) & (K Units)
- Figure 22. India Radiation-Resistant Seals Consumption (2021-2032) & (K Units)
- Figure 23. Producer Shipments of Radiation-Resistant Seals by Manufacturer Revenue (\$MM) and Market Share (%): 2025
- Figure 24. Global Four-firm Concentration Ratios (CR4) for Radiation-Resistant Seals Markets in 2025
- Figure 25. Global Four-firm Concentration Ratios (CR8) for Radiation-Resistant Seals Markets in 2025

Figure 26. United States VS China: Radiation-Resistant Seals Production Value Market Share Comparison (2021 & 2025 & 2032)

Figure 27. United States VS China: Radiation-Resistant Seals Production Market Share Comparison (2021 & 2025 & 2032)

Figure 28. United States VS China: Radiation-Resistant Seals Consumption Market Share Comparison (2021 & 2025 & 2032)

Figure 29. United States Based Manufacturers Radiation-Resistant Seals Production Market Share 2025

Figure 30. China Based Manufacturers Radiation-Resistant Seals Production Market Share 2025

Figure 31. Rest of World Based Manufacturers Radiation-Resistant Seals Production Market Share 2025

Figure 32. World Radiation-Resistant Seals Production Value by Type, (USD Million), 2021 & 2025 & 2032

Figure 33. World Radiation-Resistant Seals Production Value Market Share by Type in 2025

Figure 34. Ethylene-Propylene (EPDM) Based Shieldseal Materials

Figure 35. Fluoroelastomer (FKM) Mased Shieldseal Material

Figure 36. Nitrile (NBR) Based Shieldseal Material

Figure 37. Others

Figure 38. World Radiation-Resistant Seals Production Market Share by Type (2021-2032)

Figure 39. World Radiation-Resistant Seals Production Value Market Share by Type (2021-2032)

Figure 40. World Radiation-Resistant Seals Average Price by Type (2021-2032) & (US\$/Unit)

Figure 41. World Radiation-Resistant Seals Production Value by Seal Geometry, (USD Million), 2021 & 2025 & 2032

Figure 42. World Radiation-Resistant Seals Production Value Market Share by Seal Geometry in 2025

Figure 43. O-rings

Figure 44. Quad Rings

Figure 45. Lip Seals

Figure 46. Gaskets (Flat or Spiral-wound)

Figure 47. Custom Molded Seals

Figure 48. World Radiation-Resistant Seals Production Market Share by Seal Geometry (2021-2032)

Figure 49. World Radiation-Resistant Seals Production Value Market Share by Seal Geometry (2021-2032)

- Figure 50. World Radiation-Resistant Seals Average Price by Seal Geometry (2021-2032) & (US\$/Unit)
- Figure 51. World Radiation-Resistant Seals Production Value by Structural Form, (USD Million), 2021 & 2025 & 2032
- Figure 52. World Radiation-Resistant Seals Production Value Market Share by Structural Form in 2025
- Figure 53. Contact Seal
- Figure 54. Non-contact Seal
- Figure 55. World Radiation-Resistant Seals Production Market Share by Structural Form (2021-2032)
- Figure 56. World Radiation-Resistant Seals Production Value Market Share by Structural Form (2021-2032)
- Figure 57. World Radiation-Resistant Seals Average Price by Structural Form (2021-2032) & (US\$/Unit)
- Figure 58. World Radiation-Resistant Seals Production Value by Application, (USD Million), 2021 & 2025 & 2032
- Figure 59. World Radiation-Resistant Seals Production Value Market Share by Application in 2025
- Figure 60. Nuclear Industry
- Figure 61. Aerospace
- Figure 62. Medical
- Figure 63. Others
- Figure 64. World Radiation-Resistant Seals Production Market Share by Application (2021-2032)
- Figure 65. World Radiation-Resistant Seals Production Value Market Share by Application (2021-2032)
- Figure 66. World Radiation-Resistant Seals Average Price by Application (2021-2032) & (US\$/Unit)
- Figure 67. Radiation-Resistant Seals Industry Chain
- Figure 68. Radiation-Resistant Seals Procurement Model
- Figure 69. Radiation-Resistant Seals Sales Model
- Figure 70. Radiation-Resistant Seals Sales Channels, Direct Sales, and Distribution
- Figure 71. Methodology
- Figure 72. Research Process and Data Source

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