

Global High Temperature Resistance FFKM Seals Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global High Temperature Resistance FFKM Seals market size is expected to reach \$ 2007 million by 2032, rising at a market growth of 6.3% CAGR during the forecast period (2026-2032).

High temperature resistant FFKM seals are a type of high-performance sealing element made of perfluorinated elastomers. They can work stably for a long time under harsh conditions such as extreme high temperatures and are widely used in high-end industrial fields such as semiconductor manufacturing, aerospace, chemical industry, pharmaceuticals and new energy. In 2025, global High Temperature Resistance FFKM Seals production reached approximately 4,200 k units, with an average global market price of around 300 US\$/ Unit. The production capacity of High Temperature Resistance FFKM Seals reaches 5,300 k units, and the industry's gross profit margin is approximately between 30% and 55%.

The High Temperature Resistance FFKM Seals market is driven by increasing use of extreme operating environments across semiconductor manufacturing, chemical processing, oil & gas, aerospace, and high-end industrial equipment, where standard elastomers fail to deliver long-term reliability. As processes involve higher temperatures, aggressive chemicals, vacuum conditions, and prolonged duty cycles, FFKM seals are favored for their outstanding thermal stability, broad chemical resistance, and minimal degradation under continuous stress. In semiconductor and advanced manufacturing, tighter contamination control and higher equipment utilization directly link seal performance to yield and uptime, while in chemical and energy applications, safety, leakage prevention, and compliance requirements elevate demand for premium sealing materials. At the same time, operators are increasingly focused on reducing unplanned downtime and maintenance frequency, making the higher upfront cost of FFKM seals

economically justifiable through lower total cost of ownership. Ongoing material innovation, expanding application awareness, and growth in high-value process equipment continue to support sustained market expansion for high-temperature FFKM sealing solutions.

This report studies the global High Temperature Resistance FFKM Seals production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for High Temperature Resistance FFKM 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 High Temperature Resistance FFKM Seals that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global High Temperature Resistance FFKM Seals total production and demand, 2021-2032, (K Units)

Global High Temperature Resistance FFKM Seals total production value, 2021-2032, (USD Million)

Global High Temperature Resistance FFKM Seals production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Units), (based on production site)

Global High Temperature Resistance FFKM Seals consumption by region & country, CAGR, 2021-2032 & (K Units)

U.S. VS China: High Temperature Resistance FFKM Seals domestic production, consumption, key domestic manufacturers and share

Global High Temperature Resistance FFKM Seals production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Units)

Global High Temperature Resistance FFKM Seals production by Type, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

Global High Temperature Resistance FFKM Seals production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

This report profiles key players in the global High Temperature Resistance FFKM 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 DuPont, Greene Tweed, Trelleborg, Freudenberg, Maxmold, TRP Polymer Solutions, Gapi, Precision Polymer Engineering,

Fluorez Technology, Applied Seals, 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 High Temperature Resistance FFKM 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 High Temperature Resistance FFKM Seals Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global High Temperature Resistance FFKM Seals Market, Segmentation by Type:

O-ring

Gasket

Others

Global High Temperature Resistance FFKM Seals Market, Segmentation by Material:

Standard Grade FFKM

High-purity FFKM

Others

Global High Temperature Resistance FFKM Seals Market, Segmentation by Temperature:

Medium Temperature Type

High Temperature Type

Ultra-high Temperature Type

Global High Temperature Resistance FFKM Seals Market, Segmentation by Application:

Semiconductor

Chemical Industry

Automotive

Others

Companies Profiled:

DuPont

Greene Tweed

Trelleborg

Freudenberg

Maxmold

TRP Polymer Solutions

Gapi

Precision Polymer Engineering

Fluorez Technology

Applied Seals

Datwyler

Parker Hannifin

CTG

Sunshine Gaskets

CM TECH

Wing's Semiconductor Materials

IC Seal Co Ltd

Key Questions Answered:

1. How big is the global High Temperature Resistance FFKM Seals market?
2. What is the demand of the global High Temperature Resistance FFKM Seals market?
3. What is the year over year growth of the global High Temperature Resistance FFKM Seals market?

4. What is the production and production value of the global High Temperature Resistance FFKM Seals market?
5. Who are the key producers in the global High Temperature Resistance FFKM Seals market?
6. What are the growth factors driving the market demand?

Contents

1 SUPPLY SUMMARY

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

2 DEMAND SUMMARY

- 2.1 World High Temperature Resistance FFKM Seals Demand (2021-2032)
- 2.2 World High Temperature Resistance FFKM Seals Consumption by Region
 - 2.2.1 World High Temperature Resistance FFKM Seals Consumption by Region (2021-2026)
 - 2.2.2 World High Temperature Resistance FFKM Seals Consumption Forecast by Region (2027-2032)
- 2.3 United States High Temperature Resistance FFKM Seals Consumption (2021-2032)
- 2.4 China High Temperature Resistance FFKM Seals Consumption (2021-2032)

- 2.5 Europe High Temperature Resistance FFKM Seals Consumption (2021-2032)
- 2.6 Japan High Temperature Resistance FFKM Seals Consumption (2021-2032)
- 2.7 South Korea High Temperature Resistance FFKM Seals Consumption (2021-2032)
- 2.8 ASEAN High Temperature Resistance FFKM Seals Consumption (2021-2032)
- 2.9 India High Temperature Resistance FFKM Seals Consumption (2021-2032)

3 WORLD MANUFACTURERS COMPETITIVE ANALYSIS

- 3.1 World High Temperature Resistance FFKM Seals Production Value by Manufacturer (2021-2026)
- 3.2 World High Temperature Resistance FFKM Seals Production by Manufacturer (2021-2026)
- 3.3 World High Temperature Resistance FFKM Seals Average Price by Manufacturer (2021-2026)
- 3.4 High Temperature Resistance FFKM Seals Company Evaluation Quadrant
- 3.5 Industry Rank and Concentration Rate (CR)
 - 3.5.1 Global High Temperature Resistance FFKM Seals Industry Rank of Major Manufacturers
 - 3.5.2 Global Concentration Ratios (CR4) for High Temperature Resistance FFKM Seals in 2025
 - 3.5.3 Global Concentration Ratios (CR8) for High Temperature Resistance FFKM Seals in 2025
- 3.6 High Temperature Resistance FFKM Seals Market: Overall Company Footprint Analysis
 - 3.6.1 High Temperature Resistance FFKM Seals Market: Region Footprint
 - 3.6.2 High Temperature Resistance FFKM Seals Market: Company Product Type Footprint
 - 3.6.3 High Temperature Resistance FFKM 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: High Temperature Resistance FFKM Seals Production

Value Comparison

4.1.1 United States VS China: High Temperature Resistance FFKM Seals Production Value Comparison (2021 & 2025 & 2032)

4.1.2 United States VS China: High Temperature Resistance FFKM Seals Production Value Market Share Comparison (2021 & 2025 & 2032)

4.2 United States VS China: High Temperature Resistance FFKM Seals Production Comparison

4.2.1 United States VS China: High Temperature Resistance FFKM Seals Production Comparison (2021 & 2025 & 2032)

4.2.2 United States VS China: High Temperature Resistance FFKM Seals Production Market Share Comparison (2021 & 2025 & 2032)

4.3 United States VS China: High Temperature Resistance FFKM Seals Consumption Comparison

4.3.1 United States VS China: High Temperature Resistance FFKM Seals Consumption Comparison (2021 & 2025 & 2032)

4.3.2 United States VS China: High Temperature Resistance FFKM Seals Consumption Market Share Comparison (2021 & 2025 & 2032)

4.4 United States Based High Temperature Resistance FFKM Seals Manufacturers and Market Share, 2021-2026

4.4.1 United States Based High Temperature Resistance FFKM Seals Manufacturers, Headquarters and Production Site (States, Country)

4.4.2 United States Based Manufacturers High Temperature Resistance FFKM Seals Production Value (2021-2026)

4.4.3 United States Based Manufacturers High Temperature Resistance FFKM Seals Production (2021-2026)

4.5 China Based High Temperature Resistance FFKM Seals Manufacturers and Market Share

4.5.1 China Based High Temperature Resistance FFKM Seals Manufacturers, Headquarters and Production Site (Province, Country)

4.5.2 China Based Manufacturers High Temperature Resistance FFKM Seals Production Value (2021-2026)

4.5.3 China Based Manufacturers High Temperature Resistance FFKM Seals Production (2021-2026)

4.6 Rest of World Based High Temperature Resistance FFKM Seals Manufacturers and Market Share, 2021-2026

4.6.1 Rest of World Based High Temperature Resistance FFKM Seals Manufacturers, Headquarters and Production Site (State, Country)

4.6.2 Rest of World Based Manufacturers High Temperature Resistance FFKM Seals Production Value (2021-2026)

4.6.3 Rest of World Based Manufacturers High Temperature Resistance FFKM Seals Production (2021-2026)

5 MARKET ANALYSIS BY TYPE

5.1 World High Temperature Resistance FFKM Seals Market Size Overview by Type: 2021 VS 2025 VS 2032

5.2 Segment Introduction by Type

5.2.1 O-ring

5.2.2 Gasket

5.2.3 Others

5.3 Market Segment by Type

5.3.1 World High Temperature Resistance FFKM Seals Production by Type (2021-2032)

5.3.2 World High Temperature Resistance FFKM Seals Production Value by Type (2021-2032)

5.3.3 World High Temperature Resistance FFKM Seals Average Price by Type (2021-2032)

6 MARKET ANALYSIS BY MATERIAL

6.1 World High Temperature Resistance FFKM Seals Market Size Overview by Material: 2021 VS 2025 VS 2032

6.2 Segment Introduction by Material

6.2.1 Standard Grade FFKM

6.2.2 High-purity FFKM

6.2.3 Others

6.3 Market Segment by Material

6.3.1 World High Temperature Resistance FFKM Seals Production by Material (2021-2032)

6.3.2 World High Temperature Resistance FFKM Seals Production Value by Material (2021-2032)

6.3.3 World High Temperature Resistance FFKM Seals Average Price by Material (2021-2032)

7 MARKET ANALYSIS BY TEMPERATURE

7.1 World High Temperature Resistance FFKM Seals Market Size Overview by Temperature: 2021 VS 2025 VS 2032

7.2 Segment Introduction by Temperature

7.2.1 Medium Temperature Type

7.2.2 High Temperature Type

7.2.3 Ultra-high Temperature Type

7.3 Market Segment by Temperature

7.3.1 World High Temperature Resistance FFKM Seals Production by Temperature (2021-2032)

7.3.2 World High Temperature Resistance FFKM Seals Production Value by Temperature (2021-2032)

7.3.3 World High Temperature Resistance FFKM Seals Average Price by Temperature (2021-2032)

8 MARKET ANALYSIS BY APPLICATION

8.1 World High Temperature Resistance FFKM Seals Market Size Overview by Application: 2021 VS 2025 VS 2032

8.2 Segment Introduction by Application

8.2.1 Semiconductor

8.2.2 Chemical Industry

8.2.3 Automotive

8.2.4 Others

8.3 Market Segment by Application

8.3.1 World High Temperature Resistance FFKM Seals Production by Application (2021-2032)

8.3.2 World High Temperature Resistance FFKM Seals Production Value by Application (2021-2032)

8.3.3 World High Temperature Resistance FFKM Seals Average Price by Application (2021-2032)

9 COMPANY PROFILES

9.1 DuPont

9.1.1 DuPont Details

9.1.2 DuPont Major Business

9.1.3 DuPont High Temperature Resistance FFKM Seals Product and Services

9.1.4 DuPont High Temperature Resistance FFKM Seals Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.1.5 DuPont Recent Developments/Updates

9.1.6 DuPont Competitive Strengths & Weaknesses

9.2 Greene Tweed

9.2.1 Greene Tweed Details

9.2.2 Greene Tweed Major Business

9.2.3 Greene Tweed High Temperature Resistance FFKM Seals Product and Services

9.2.4 Greene Tweed High Temperature Resistance FFKM Seals Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.2.5 Greene Tweed Recent Developments/Updates

9.2.6 Greene Tweed Competitive Strengths & Weaknesses

9.3 Trelleborg

9.3.1 Trelleborg Details

9.3.2 Trelleborg Major Business

9.3.3 Trelleborg High Temperature Resistance FFKM Seals Product and Services

9.3.4 Trelleborg High Temperature Resistance FFKM Seals Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.3.5 Trelleborg Recent Developments/Updates

9.3.6 Trelleborg Competitive Strengths & Weaknesses

9.4 Freudenberg

9.4.1 Freudenberg Details

9.4.2 Freudenberg Major Business

9.4.3 Freudenberg High Temperature Resistance FFKM Seals Product and Services

9.4.4 Freudenberg High Temperature Resistance FFKM Seals Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.4.5 Freudenberg Recent Developments/Updates

9.4.6 Freudenberg Competitive Strengths & Weaknesses

9.5 Maxmold

9.5.1 Maxmold Details

9.5.2 Maxmold Major Business

9.5.3 Maxmold High Temperature Resistance FFKM Seals Product and Services

9.5.4 Maxmold High Temperature Resistance FFKM Seals Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.5.5 Maxmold Recent Developments/Updates

9.5.6 Maxmold Competitive Strengths & Weaknesses

9.6 TRP Polymer Solutions

9.6.1 TRP Polymer Solutions Details

9.6.2 TRP Polymer Solutions Major Business

9.6.3 TRP Polymer Solutions High Temperature Resistance FFKM Seals Product and Services

9.6.4 TRP Polymer Solutions High Temperature Resistance FFKM Seals Production, Price, Value, Gross Margin and Market Share (2021-2026)

- 9.6.5 TRP Polymer Solutions Recent Developments/Updates
- 9.6.6 TRP Polymer Solutions Competitive Strengths & Weaknesses
- 9.7 Gapi
 - 9.7.1 Gapi Details
 - 9.7.2 Gapi Major Business
 - 9.7.3 Gapi High Temperature Resistance FFKM Seals Product and Services
 - 9.7.4 Gapi High Temperature Resistance FFKM Seals Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.7.5 Gapi Recent Developments/Updates
 - 9.7.6 Gapi Competitive Strengths & Weaknesses
- 9.8 Precision Polymer Engineering
 - 9.8.1 Precision Polymer Engineering Details
 - 9.8.2 Precision Polymer Engineering Major Business
 - 9.8.3 Precision Polymer Engineering High Temperature Resistance FFKM Seals Product and Services
 - 9.8.4 Precision Polymer Engineering High Temperature Resistance FFKM Seals Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.8.5 Precision Polymer Engineering Recent Developments/Updates
 - 9.8.6 Precision Polymer Engineering Competitive Strengths & Weaknesses
- 9.9 Fluorez Technology
 - 9.9.1 Fluorez Technology Details
 - 9.9.2 Fluorez Technology Major Business
 - 9.9.3 Fluorez Technology High Temperature Resistance FFKM Seals Product and Services
 - 9.9.4 Fluorez Technology High Temperature Resistance FFKM Seals Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.9.5 Fluorez Technology Recent Developments/Updates
 - 9.9.6 Fluorez Technology Competitive Strengths & Weaknesses
- 9.10 Applied Seals
 - 9.10.1 Applied Seals Details
 - 9.10.2 Applied Seals Major Business
 - 9.10.3 Applied Seals High Temperature Resistance FFKM Seals Product and Services
 - 9.10.4 Applied Seals High Temperature Resistance FFKM Seals Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.10.5 Applied Seals Recent Developments/Updates
 - 9.10.6 Applied Seals Competitive Strengths & Weaknesses
- 9.11 Datwyler
 - 9.11.1 Datwyler Details
 - 9.11.2 Datwyler Major Business

- 9.11.3 Datwyler High Temperature Resistance FFKM Seals Product and Services
- 9.11.4 Datwyler High Temperature Resistance FFKM Seals Production, Price, Value, Gross Margin and Market Share (2021-2026)
- 9.11.5 Datwyler Recent Developments/Updates
- 9.11.6 Datwyler Competitive Strengths & Weaknesses
- 9.12 Parker Hannifin
 - 9.12.1 Parker Hannifin Details
 - 9.12.2 Parker Hannifin Major Business
 - 9.12.3 Parker Hannifin High Temperature Resistance FFKM Seals Product and Services
 - 9.12.4 Parker Hannifin High Temperature Resistance FFKM Seals Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.12.5 Parker Hannifin Recent Developments/Updates
 - 9.12.6 Parker Hannifin Competitive Strengths & Weaknesses
- 9.13 CTG
 - 9.13.1 CTG Details
 - 9.13.2 CTG Major Business
 - 9.13.3 CTG High Temperature Resistance FFKM Seals Product and Services
 - 9.13.4 CTG High Temperature Resistance FFKM Seals Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.13.5 CTG Recent Developments/Updates
 - 9.13.6 CTG Competitive Strengths & Weaknesses
- 9.14 Sunshine Gaskets
 - 9.14.1 Sunshine Gaskets Details
 - 9.14.2 Sunshine Gaskets Major Business
 - 9.14.3 Sunshine Gaskets High Temperature Resistance FFKM Seals Product and Services
 - 9.14.4 Sunshine Gaskets High Temperature Resistance FFKM Seals Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.14.5 Sunshine Gaskets Recent Developments/Updates
 - 9.14.6 Sunshine Gaskets Competitive Strengths & Weaknesses
- 9.15 CM TECH
 - 9.15.1 CM TECH Details
 - 9.15.2 CM TECH Major Business
 - 9.15.3 CM TECH High Temperature Resistance FFKM Seals Product and Services
 - 9.15.4 CM TECH High Temperature Resistance FFKM Seals Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.15.5 CM TECH Recent Developments/Updates
 - 9.15.6 CM TECH Competitive Strengths & Weaknesses

9.16 Wing's Semiconductor Materials

9.16.1 Wing's Semiconductor Materials Details

9.16.2 Wing's Semiconductor Materials Major Business

9.16.3 Wing's Semiconductor Materials High Temperature Resistance FFKM Seals Product and Services

9.16.4 Wing's Semiconductor Materials High Temperature Resistance FFKM Seals Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.16.5 Wing's Semiconductor Materials Recent Developments/Updates

9.16.6 Wing's Semiconductor Materials Competitive Strengths & Weaknesses

9.17 IC Seal Co Ltd

9.17.1 IC Seal Co Ltd Details

9.17.2 IC Seal Co Ltd Major Business

9.17.3 IC Seal Co Ltd High Temperature Resistance FFKM Seals Product and Services

9.17.4 IC Seal Co Ltd High Temperature Resistance FFKM Seals Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.17.5 IC Seal Co Ltd Recent Developments/Updates

9.17.6 IC Seal Co Ltd Competitive Strengths & Weaknesses

10 INDUSTRY CHAIN ANALYSIS

10.1 High Temperature Resistance FFKM Seals Industry Chain

10.2 High Temperature Resistance FFKM Seals Upstream Analysis

10.2.1 High Temperature Resistance FFKM Seals Core Raw Materials

10.2.2 Main Manufacturers of High Temperature Resistance FFKM Seals Core Raw Materials

10.3 Midstream Analysis

10.4 Downstream Analysis

10.5 High Temperature Resistance FFKM Seals Production Mode

10.6 High Temperature Resistance FFKM Seals Procurement Model

10.7 High Temperature Resistance FFKM Seals Industry Sales Model and Sales Channels

10.7.1 High Temperature Resistance FFKM Seals Sales Model

10.7.2 High Temperature Resistance FFKM 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 High Temperature Resistance FFKM Seals Production Value by Region (2021, 2025 and 2032) & (USD Million)

Table 2. World High Temperature Resistance FFKM Seals Production Value by Region (2021-2026) & (USD Million)

Table 3. World High Temperature Resistance FFKM Seals Production Value by Region (2027-2032) & (USD Million)

Table 4. World High Temperature Resistance FFKM Seals Production Value Market Share by Region (2021-2026)

Table 5. World High Temperature Resistance FFKM Seals Production Value Market Share by Region (2027-2032)

Table 6. World High Temperature Resistance FFKM Seals Production by Region (2021-2026) & (K Units)

Table 7. World High Temperature Resistance FFKM Seals Production by Region (2027-2032) & (K Units)

Table 8. World High Temperature Resistance FFKM Seals Production Market Share by Region (2021-2026)

Table 9. World High Temperature Resistance FFKM Seals Production Market Share by Region (2027-2032)

Table 10. World High Temperature Resistance FFKM Seals Average Price by Region (2021-2026) & (US\$/Unit)

Table 11. World High Temperature Resistance FFKM Seals Average Price by Region (2027-2032) & (US\$/Unit)

Table 12. High Temperature Resistance FFKM Seals Major Market Trends

Table 13. World High Temperature Resistance FFKM Seals Consumption Growth Rate Forecast by Region (2021 & 2025 & 2032) & (K Units)

Table 14. World High Temperature Resistance FFKM Seals Consumption by Region (2021-2026) & (K Units)

Table 15. World High Temperature Resistance FFKM Seals Consumption Forecast by Region (2027-2032) & (K Units)

Table 16. World High Temperature Resistance FFKM Seals Production Value by Manufacturer (2021-2026) & (USD Million)

Table 17. Production Value Market Share of Key High Temperature Resistance FFKM Seals Producers in 2025

Table 18. World High Temperature Resistance FFKM Seals Production by Manufacturer (2021-2026) & (K Units)

Table 19. Production Market Share of Key High Temperature Resistance FFKM Seals Producers in 2025

Table 20. World High Temperature Resistance FFKM Seals Average Price by Manufacturer (2021-2026) & (US\$/Unit)

Table 21. Global High Temperature Resistance FFKM Seals Company Evaluation Quadrant

Table 22. World High Temperature Resistance FFKM Seals Industry Rank of Major Manufacturers, Based on Production Value in 2025

Table 23. Head Office and High Temperature Resistance FFKM Seals Production Site of Key Manufacturer

Table 24. High Temperature Resistance FFKM Seals Market: Company Product Type Footprint

Table 25. High Temperature Resistance FFKM Seals Market: Company Product Application Footprint

Table 26. High Temperature Resistance FFKM Seals Competitive Factors

Table 27. High Temperature Resistance FFKM Seals New Entrant and Capacity Expansion Plans

Table 28. High Temperature Resistance FFKM Seals Mergers & Acquisitions Activity

Table 29. United States VS China High Temperature Resistance FFKM Seals Production Value Comparison, (2021 & 2025 & 2032) & (USD Million)

Table 30. United States VS China High Temperature Resistance FFKM Seals Production Comparison, (2021 & 2025 & 2032) & (K Units)

Table 31. United States VS China High Temperature Resistance FFKM Seals Consumption Comparison, (2021 & 2025 & 2032) & (K Units)

Table 32. United States Based High Temperature Resistance FFKM Seals Manufacturers, Headquarters and Production Site (States, Country)

Table 33. United States Based Manufacturers High Temperature Resistance FFKM Seals Production Value, (2021-2026) & (USD Million)

Table 34. United States Based Manufacturers High Temperature Resistance FFKM Seals Production Value Market Share (2021-2026)

Table 35. United States Based Manufacturers High Temperature Resistance FFKM Seals Production (2021-2026) & (K Units)

Table 36. United States Based Manufacturers High Temperature Resistance FFKM Seals Production Market Share (2021-2026)

Table 37. China Based High Temperature Resistance FFKM Seals Manufacturers, Headquarters and Production Site (Province, Country)

Table 38. China Based Manufacturers High Temperature Resistance FFKM Seals Production Value, (2021-2026) & (USD Million)

Table 39. China Based Manufacturers High Temperature Resistance FFKM Seals

Production Value Market Share (2021-2026)

Table 40. China Based Manufacturers High Temperature Resistance FFKM Seals Production, (2021-2026) & (K Units)

Table 41. China Based Manufacturers High Temperature Resistance FFKM Seals Production Market Share (2021-2026)

Table 42. Rest of World Based High Temperature Resistance FFKM Seals Manufacturers, Headquarters and Production Site (State, Country)

Table 43. Rest of World Based Manufacturers High Temperature Resistance FFKM Seals Production Value, (2021-2026) & (USD Million)

Table 44. Rest of World Based Manufacturers High Temperature Resistance FFKM Seals Production Value Market Share (2021-2026)

Table 45. Rest of World Based Manufacturers High Temperature Resistance FFKM Seals Production, (2021-2026) & (K Units)

Table 46. Rest of World Based Manufacturers High Temperature Resistance FFKM Seals Production Market Share (2021-2026)

Table 47. World High Temperature Resistance FFKM Seals Production Value by Type, (USD Million), 2021 & 2025 & 2032

Table 48. World High Temperature Resistance FFKM Seals Production by Type (2021-2026) & (K Units)

Table 49. World High Temperature Resistance FFKM Seals Production by Type (2027-2032) & (K Units)

Table 50. World High Temperature Resistance FFKM Seals Production Value by Type (2021-2026) & (USD Million)

Table 51. World High Temperature Resistance FFKM Seals Production Value by Type (2027-2032) & (USD Million)

Table 52. World High Temperature Resistance FFKM Seals Average Price by Type (2021-2026) & (US\$/Unit)

Table 53. World High Temperature Resistance FFKM Seals Average Price by Type (2027-2032) & (US\$/Unit)

Table 54. World High Temperature Resistance FFKM Seals Production Value by Material, (USD Million), 2021 & 2025 & 2032

Table 55. World High Temperature Resistance FFKM Seals Production by Material (2021-2026) & (K Units)

Table 56. World High Temperature Resistance FFKM Seals Production by Material (2027-2032) & (K Units)

Table 57. World High Temperature Resistance FFKM Seals Production Value by Material (2021-2026) & (USD Million)

Table 58. World High Temperature Resistance FFKM Seals Production Value by Material (2027-2032) & (USD Million)

Table 59. World High Temperature Resistance FFKM Seals Average Price by Material (2021-2026) & (US\$/Unit)

Table 60. World High Temperature Resistance FFKM Seals Average Price by Material (2027-2032) & (US\$/Unit)

Table 61. World High Temperature Resistance FFKM Seals Production Value by Temperature, (USD Million), 2021 & 2025 & 2032

Table 62. World High Temperature Resistance FFKM Seals Production by Temperature (2021-2026) & (K Units)

Table 63. World High Temperature Resistance FFKM Seals Production by Temperature (2027-2032) & (K Units)

Table 64. World High Temperature Resistance FFKM Seals Production Value by Temperature (2021-2026) & (USD Million)

Table 65. World High Temperature Resistance FFKM Seals Production Value by Temperature (2027-2032) & (USD Million)

Table 66. World High Temperature Resistance FFKM Seals Average Price by Temperature (2021-2026) & (US\$/Unit)

Table 67. World High Temperature Resistance FFKM Seals Average Price by Temperature (2027-2032) & (US\$/Unit)

Table 68. World High Temperature Resistance FFKM Seals Production Value by Application, (USD Million), 2021 & 2025 & 2032

Table 69. World High Temperature Resistance FFKM Seals Production by Application (2021-2026) & (K Units)

Table 70. World High Temperature Resistance FFKM Seals Production by Application (2027-2032) & (K Units)

Table 71. World High Temperature Resistance FFKM Seals Production Value by Application (2021-2026) & (USD Million)

Table 72. World High Temperature Resistance FFKM Seals Production Value by Application (2027-2032) & (USD Million)

Table 73. World High Temperature Resistance FFKM Seals Average Price by Application (2021-2026) & (US\$/Unit)

Table 74. World High Temperature Resistance FFKM Seals Average Price by Application (2027-2032) & (US\$/Unit)

Table 75. DuPont Basic Information, Manufacturing Base and Competitors

Table 76. DuPont Major Business

Table 77. DuPont High Temperature Resistance FFKM Seals Product and Services

Table 78. DuPont High Temperature Resistance FFKM Seals Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 79. DuPont Recent Developments/Updates

- Table 80. DuPont Competitive Strengths & Weaknesses
- Table 81. Greene Tweed Basic Information, Manufacturing Base and Competitors
- Table 82. Greene Tweed Major Business
- Table 83. Greene Tweed High Temperature Resistance FFKM Seals Product and Services
- Table 84. Greene Tweed High Temperature Resistance FFKM Seals Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 85. Greene Tweed Recent Developments/Updates
- Table 86. Greene Tweed Competitive Strengths & Weaknesses
- Table 87. Trelleborg Basic Information, Manufacturing Base and Competitors
- Table 88. Trelleborg Major Business
- Table 89. Trelleborg High Temperature Resistance FFKM Seals Product and Services
- Table 90. Trelleborg High Temperature Resistance FFKM Seals Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 91. Trelleborg Recent Developments/Updates
- Table 92. Trelleborg Competitive Strengths & Weaknesses
- Table 93. Freudenberg Basic Information, Manufacturing Base and Competitors
- Table 94. Freudenberg Major Business
- Table 95. Freudenberg High Temperature Resistance FFKM Seals Product and Services
- Table 96. Freudenberg High Temperature Resistance FFKM Seals Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 97. Freudenberg Recent Developments/Updates
- Table 98. Freudenberg Competitive Strengths & Weaknesses
- Table 99. Maxmold Basic Information, Manufacturing Base and Competitors
- Table 100. Maxmold Major Business
- Table 101. Maxmold High Temperature Resistance FFKM Seals Product and Services
- Table 102. Maxmold High Temperature Resistance FFKM Seals Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 103. Maxmold Recent Developments/Updates
- Table 104. Maxmold Competitive Strengths & Weaknesses
- Table 105. TRP Polymer Solutions Basic Information, Manufacturing Base and Competitors
- Table 106. TRP Polymer Solutions Major Business
- Table 107. TRP Polymer Solutions High Temperature Resistance FFKM Seals Product

and Services

Table 108. TRP Polymer Solutions High Temperature Resistance FFKM Seals Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 109. TRP Polymer Solutions Recent Developments/Updates

Table 110. TRP Polymer Solutions Competitive Strengths & Weaknesses

Table 111. Gapi Basic Information, Manufacturing Base and Competitors

Table 112. Gapi Major Business

Table 113. Gapi High Temperature Resistance FFKM Seals Product and Services

Table 114. Gapi High Temperature Resistance FFKM Seals Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 115. Gapi Recent Developments/Updates

Table 116. Gapi Competitive Strengths & Weaknesses

Table 117. Precision Polymer Engineering Basic Information, Manufacturing Base and Competitors

Table 118. Precision Polymer Engineering Major Business

Table 119. Precision Polymer Engineering High Temperature Resistance FFKM Seals Product and Services

Table 120. Precision Polymer Engineering High Temperature Resistance FFKM Seals Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 121. Precision Polymer Engineering Recent Developments/Updates

Table 122. Precision Polymer Engineering Competitive Strengths & Weaknesses

Table 123. Fluorez Technology Basic Information, Manufacturing Base and Competitors

Table 124. Fluorez Technology Major Business

Table 125. Fluorez Technology High Temperature Resistance FFKM Seals Product and Services

Table 126. Fluorez Technology High Temperature Resistance FFKM Seals Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 127. Fluorez Technology Recent Developments/Updates

Table 128. Fluorez Technology Competitive Strengths & Weaknesses

Table 129. Applied Seals Basic Information, Manufacturing Base and Competitors

Table 130. Applied Seals Major Business

Table 131. Applied Seals High Temperature Resistance FFKM Seals Product and Services

Table 132. Applied Seals High Temperature Resistance FFKM Seals Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market

Share (2021-2026)

Table 133. Applied Seals Recent Developments/Updates

Table 134. Applied Seals Competitive Strengths & Weaknesses

Table 135. Datwyler Basic Information, Manufacturing Base and Competitors

Table 136. Datwyler Major Business

Table 137. Datwyler High Temperature Resistance FFKM Seals Product and Services

Table 138. Datwyler High Temperature Resistance FFKM Seals Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 139. Datwyler Recent Developments/Updates

Table 140. Datwyler Competitive Strengths & Weaknesses

Table 141. Parker Hannifin Basic Information, Manufacturing Base and Competitors

Table 142. Parker Hannifin Major Business

Table 143. Parker Hannifin High Temperature Resistance FFKM Seals Product and Services

Table 144. Parker Hannifin High Temperature Resistance FFKM Seals Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 145. Parker Hannifin Recent Developments/Updates

Table 146. Parker Hannifin Competitive Strengths & Weaknesses

Table 147. CTG Basic Information, Manufacturing Base and Competitors

Table 148. CTG Major Business

Table 149. CTG High Temperature Resistance FFKM Seals Product and Services

Table 150. CTG High Temperature Resistance FFKM Seals Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 151. CTG Recent Developments/Updates

Table 152. CTG Competitive Strengths & Weaknesses

Table 153. Sunshine Gaskets Basic Information, Manufacturing Base and Competitors

Table 154. Sunshine Gaskets Major Business

Table 155. Sunshine Gaskets High Temperature Resistance FFKM Seals Product and Services

Table 156. Sunshine Gaskets High Temperature Resistance FFKM Seals Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 157. Sunshine Gaskets Recent Developments/Updates

Table 158. Sunshine Gaskets Competitive Strengths & Weaknesses

Table 159. CM TECH Basic Information, Manufacturing Base and Competitors

Table 160. CM TECH Major Business

Table 161. CM TECH High Temperature Resistance FFKM Seals Product and Services

Table 162. CM TECH High Temperature Resistance FFKM Seals Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 163. CM TECH Recent Developments/Updates

Table 164. CM TECH Competitive Strengths & Weaknesses

Table 165. Wing's Semiconductor Materials Basic Information, Manufacturing Base and Competitors

Table 166. Wing's Semiconductor Materials Major Business

Table 167. Wing's Semiconductor Materials High Temperature Resistance FFKM Seals Product and Services

Table 168. Wing's Semiconductor Materials High Temperature Resistance FFKM Seals Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 169. Wing's Semiconductor Materials Recent Developments/Updates

Table 170. Wing's Semiconductor Materials Competitive Strengths & Weaknesses

Table 171. IC Seal Co Ltd Basic Information, Manufacturing Base and Competitors

Table 172. IC Seal Co Ltd Major Business

Table 173. IC Seal Co Ltd High Temperature Resistance FFKM Seals Product and Services

Table 174. IC Seal Co Ltd High Temperature Resistance FFKM Seals Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 175. IC Seal Co Ltd Recent Developments/Updates

Table 176. IC Seal Co Ltd Competitive Strengths & Weaknesses

Table 177. Global Key Players of High Temperature Resistance FFKM Seals Upstream (Raw Materials)

Table 178. Global High Temperature Resistance FFKM Seals Typical Customers

Table 179. High Temperature Resistance FFKM Seals Typical Distributors

List Of Figures

LIST OF FIGURES

Figure 1. High Temperature Resistance FFKM Seals Picture

Figure 2. World High Temperature Resistance FFKM Seals Production Value: 2021 & 2025 & 2032, (USD Million)

Figure 3. World High Temperature Resistance FFKM Seals Production Value and Forecast (2021-2032) & (USD Million)

Figure 4. World High Temperature Resistance FFKM Seals Production (2021-2032) & (K Units)

Figure 5. World High Temperature Resistance FFKM Seals Average Price (2021-2032) & (US\$/Unit)

Figure 6. World High Temperature Resistance FFKM Seals Production Value Market Share by Region (2021-2032)

Figure 7. World High Temperature Resistance FFKM Seals Production Market Share by Region (2021-2032)

Figure 8. North America High Temperature Resistance FFKM Seals Production (2021-2032) & (K Units)

Figure 9. Europe High Temperature Resistance FFKM Seals Production (2021-2032) & (K Units)

Figure 10. China High Temperature Resistance FFKM Seals Production (2021-2032) & (K Units)

Figure 11. Japan High Temperature Resistance FFKM Seals Production (2021-2032) & (K Units)

Figure 12. South Korea High Temperature Resistance FFKM Seals Production (2021-2032) & (K Units)

Figure 13. High Temperature Resistance FFKM Seals Market Drivers

Figure 14. Factors Affecting Demand

Figure 15. World High Temperature Resistance FFKM Seals Consumption (2021-2032) & (K Units)

Figure 16. World High Temperature Resistance FFKM Seals Consumption Market Share by Region (2021-2032)

Figure 17. United States High Temperature Resistance FFKM Seals Consumption (2021-2032) & (K Units)

Figure 18. China High Temperature Resistance FFKM Seals Consumption (2021-2032) & (K Units)

Figure 19. Europe High Temperature Resistance FFKM Seals Consumption (2021-2032) & (K Units)

Figure 20. Japan High Temperature Resistance FFKM Seals Consumption (2021-2032) & (K Units)

Figure 21. South Korea High Temperature Resistance FFKM Seals Consumption (2021-2032) & (K Units)

Figure 22. ASEAN High Temperature Resistance FFKM Seals Consumption (2021-2032) & (K Units)

Figure 23. India High Temperature Resistance FFKM Seals Consumption (2021-2032) & (K Units)

Figure 24. Producer Shipments of High Temperature Resistance FFKM Seals by Manufacturer Revenue (\$MM) and Market Share (%): 2025

Figure 25. Global Four-firm Concentration Ratios (CR4) for High Temperature Resistance FFKM Seals Markets in 2025

Figure 26. Global Four-firm Concentration Ratios (CR8) for High Temperature Resistance FFKM Seals Markets in 2025

Figure 27. United States VS China: High Temperature Resistance FFKM Seals Production Value Market Share Comparison (2021 & 2025 & 2032)

Figure 28. United States VS China: High Temperature Resistance FFKM Seals Production Market Share Comparison (2021 & 2025 & 2032)

Figure 29. United States VS China: High Temperature Resistance FFKM Seals Consumption Market Share Comparison (2021 & 2025 & 2032)

Figure 30. United States Based Manufacturers High Temperature Resistance FFKM Seals Production Market Share 2025

Figure 31. China Based Manufacturers High Temperature Resistance FFKM Seals Production Market Share 2025

Figure 32. Rest of World Based Manufacturers High Temperature Resistance FFKM Seals Production Market Share 2025

Figure 33. World High Temperature Resistance FFKM Seals Production Value by Type, (USD Million), 2021 & 2025 & 2032

Figure 34. World High Temperature Resistance FFKM Seals Production Value Market Share by Type in 2025

Figure 35. O-ring

Figure 36. Gasket

Figure 37. Others

Figure 38. World High Temperature Resistance FFKM Seals Production Market Share by Type (2021-2032)

Figure 39. World High Temperature Resistance FFKM Seals Production Value Market Share by Type (2021-2032)

Figure 40. World High Temperature Resistance FFKM Seals Average Price by Type (2021-2032) & (US\$/Unit)

Figure 41. World High Temperature Resistance FFKM Seals Production Value by Material, (USD Million), 2021 & 2025 & 2032

Figure 42. World High Temperature Resistance FFKM Seals Production Value Market Share by Material in 2025

Figure 43. Standard Grade FFKM

Figure 44. High-purity FFKM

Figure 45. Others

Figure 46. World High Temperature Resistance FFKM Seals Production Market Share by Material (2021-2032)

Figure 47. World High Temperature Resistance FFKM Seals Production Value Market Share by Material (2021-2032)

Figure 48. World High Temperature Resistance FFKM Seals Average Price by Material (2021-2032) & (US\$/Unit)

Figure 49. World High Temperature Resistance FFKM Seals Production Value by Temperature, (USD Million), 2021 & 2025 & 2032

Figure 50. World High Temperature Resistance FFKM Seals Production Value Market Share by Temperature in 2025

Figure 51. Medium Temperature Type

Figure 52. High Temperature Type

Figure 53. Ultra-high Temperature Type

Figure 54. World High Temperature Resistance FFKM Seals Production Market Share by Temperature (2021-2032)

Figure 55. World High Temperature Resistance FFKM Seals Production Value Market Share by Temperature (2021-2032)

Figure 56. World High Temperature Resistance FFKM Seals Average Price by Temperature (2021-2032) & (US\$/Unit)

Figure 57. World High Temperature Resistance FFKM Seals Production Value by Application, (USD Million), 2021 & 2025 & 2032

Figure 58. World High Temperature Resistance FFKM Seals Production Value Market Share by Application in 2025

Figure 59. Semiconductor

Figure 60. Chemical Industry

Figure 61. Automotive

Figure 62. Others

Figure 63. World High Temperature Resistance FFKM Seals Production Market Share by Application (2021-2032)

Figure 64. World High Temperature Resistance FFKM Seals Production Value Market Share by Application (2021-2032)

Figure 65. World High Temperature Resistance FFKM Seals Average Price by

Application (2021-2032) & (US\$/Unit)

Figure 66. High Temperature Resistance FFKM Seals Industry Chain

Figure 67. High Temperature Resistance FFKM Seals Procurement Model

Figure 68. High Temperature Resistance FFKM Seals Sales Model

Figure 69. High Temperature Resistance FFKM Seals Sales Channels, Direct Sales, and Distribution

Figure 70. Methodology

Figure 71. Research Process and Data Source

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