

# Global Silicone Radiation Detector Supply, Demand and Key Producers, 2026-2032

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## Abstracts

The global Silicone Radiation Detector market size is expected to reach \$ 4038 million by 2032, rising at a market growth of 6.3% CAGR during the forecast period (2026-2032).

Silicon radiation detectors are solid-state devices that utilize silicon semiconductor materials to detect and measure ionizing radiation, including alpha particles, beta particles, gamma rays, and X-rays. Unlike traditional gas-filled detectors or scintillation detectors, silicon detectors offer superior energy resolution, fast response times, compact size, and the ability to operate at room temperature. When ionizing radiation interacts with the silicon material, electron-hole pairs are generated, producing an electrical signal proportional to the deposited energy. Common types include silicon surface barrier detectors, silicon drift detectors (SDD), silicon photomultipliers (SiPM), and silicon avalanche photodiodes. Key applications span medical imaging (PET, CT, SPECT), nuclear medicine, radiation monitoring, security screening, industrial radiography, high-energy physics research, and homeland security. From a value chain perspective, upstream includes high-purity silicon wafer suppliers, photolithography equipment providers, and specialized foundries; midstream involves detector design, fabrication, packaging, and quality testing; downstream demand spans hospitals and diagnostic imaging centers, nuclear power plants, research laboratories, security checkpoints, and industrial inspection facilities. In 2025, the average selling price is approximately US\$1,080 per unit, global sales volume is about 2.35 million units, and gross margins generally range from 40% to 60%, driven by wafer material costs, fabrication complexity, and stringent performance qualification requirements.

The silicon radiation detector market is experiencing steady growth driven by the increasing adoption of solid-state detection technologies across medical imaging,

nuclear security, and high-energy physics applications. Silicon detectors are progressively displacing legacy technologies such as gas-filled proportional counters and scintillation detectors, offering superior energy resolution and compact form factors

### Medical Imaging as the Primary Growth Driver

Medical imaging (PET, CT, SPECT) represents the largest application segment for silicon radiation detectors. Silicon photomultipliers have emerged as the preferred technology for PET detectors due to their excellent timing resolution and magnetic field compatibility, enabling time-of-flight PET imaging with improved signal-to-noise ratios. The growing prevalence of cancer and cardiovascular diseases globally continues to drive demand for advanced diagnostic imaging systems incorporating silicon detector technology.

### Nuclear Security and Homeland Defense Applications

Radiation portal monitors and personal dosimeters increasingly employ silicon-based detectors due to their compact size, low power consumption, and ability to discriminate between gamma and neutron radiation. The proliferation of handheld radionuclide identification devices for border security and emergency response has created significant demand for high-performance silicon detectors capable of room-temperature operation.

This report studies the global Silicone Radiation Detector production, demand, key manufacturers, and key regions.

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

### Highlights and key features of the study

Global Silicone Radiation Detector total production and demand, 2021-2032, (K Units)

Global Silicone Radiation Detector total production value, 2021-2032, (USD Million)

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

Global Silicone Radiation Detector consumption by region & country, CAGR, 2021-2032

& (K Units)

U.S. VS China: Silicone Radiation Detector domestic production, consumption, key domestic manufacturers and share

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

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

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

This report profiles key players in the global Silicone Radiation Detector 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 Mirion Technologies, Inc., AMETEK, Inc. (Ortec), Hitachi, Ltd., Kromek Group plc, Thermo Fisher Scientific Inc., Oxford Instruments plc, Bruker Corporation, Ketek GmbH, PNDetector, Teledyne Judson Technologies, 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 Silicone Radiation Detector 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 Silicone Radiation Detector Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

#### Global Silicone Radiation Detector Market, Segmentation by Type:

Silicon Lithium Semiconductor Detector

Silicon Drift Detector

Others

#### Global Silicone Radiation Detector Market, Segmentation by Active Area Size:

Small Area (

Medium Area (10-100 mm?)

Large Area (> 100 mm?)

#### Global Silicone Radiation Detector Market, Segmentation by Energy Resolution:

Standard Resolution

High Resolution

Ultra-High Resolution

#### Global Silicone Radiation Detector Market, Segmentation by Application:

Medical

Industrial

Military and Homeland Security

Laboratory

Other

#### Companies Profiled:

Mirion Technologies, Inc.

AMETEK, Inc. (Ortec)

Hitachi, Ltd.

Kromek Group plc

Thermo Fisher Scientific Inc.

Oxford Instruments plc

Bruker Corporation

Ketek GmbH

PNDetector

Teledyne Judson Technologies

Rayspec Ltd.

Canberra Industries (Mirion)

Amptek Inc.

Redlen Technologies Inc.

Radiation Monitoring Devices, Inc. (RMD)

Nuclear Photoelectric Technology (Shandong) Co., Ltd.

CGN Jingshi Optoelectronics Technology (Tianjin) Co., Ltd.

Hangzhou Yong Hee Photonics Co., Ltd.

Shanghai Gesheng Electronic Technology Co., Ltd.

#### Key Questions Answered:

1. How big is the global Silicone Radiation Detector market?
2. What is the demand of the global Silicone Radiation Detector market?
3. What is the year over year growth of the global Silicone Radiation Detector market?
4. What is the production and production value of the global Silicone Radiation Detector market?
5. Who are the key producers in the global Silicone Radiation Detector market?
6. What are the growth factors driving the market demand?

## Contents

### 1 SUPPLY SUMMARY

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

### 2 DEMAND SUMMARY

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

### 3 WORLD MANUFACTURERS COMPETITIVE ANALYSIS

- 3.1 World Silicone Radiation Detector Production Value by Manufacturer (2021-2026)

- 3.2 World Silicone Radiation Detector Production by Manufacturer (2021-2026)
- 3.3 World Silicone Radiation Detector Average Price by Manufacturer (2021-2026)
- 3.4 Silicone Radiation Detector Company Evaluation Quadrant
- 3.5 Industry Rank and Concentration Rate (CR)
  - 3.5.1 Global Silicone Radiation Detector Industry Rank of Major Manufacturers
  - 3.5.2 Global Concentration Ratios (CR4) for Silicone Radiation Detector in 2025
  - 3.5.3 Global Concentration Ratios (CR8) for Silicone Radiation Detector in 2025
- 3.6 Silicone Radiation Detector Market: Overall Company Footprint Analysis
  - 3.6.1 Silicone Radiation Detector Market: Region Footprint
  - 3.6.2 Silicone Radiation Detector Market: Company Product Type Footprint
  - 3.6.3 Silicone Radiation Detector 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: Silicone Radiation Detector Production Value Comparison
  - 4.1.1 United States VS China: Silicone Radiation Detector Production Value Comparison (2021 & 2025 & 2032)
  - 4.1.2 United States VS China: Silicone Radiation Detector Production Value Market Share Comparison (2021 & 2025 & 2032)
- 4.2 United States VS China: Silicone Radiation Detector Production Comparison
  - 4.2.1 United States VS China: Silicone Radiation Detector Production Comparison (2021 & 2025 & 2032)
  - 4.2.2 United States VS China: Silicone Radiation Detector Production Market Share Comparison (2021 & 2025 & 2032)
- 4.3 United States VS China: Silicone Radiation Detector Consumption Comparison
  - 4.3.1 United States VS China: Silicone Radiation Detector Consumption Comparison (2021 & 2025 & 2032)
  - 4.3.2 United States VS China: Silicone Radiation Detector Consumption Market Share Comparison (2021 & 2025 & 2032)
- 4.4 United States Based Silicone Radiation Detector Manufacturers and Market Share, 2021-2026
  - 4.4.1 United States Based Silicone Radiation Detector Manufacturers, Headquarters and Production Site (States, Country)

4.4.2 United States Based Manufacturers Silicone Radiation Detector Production Value (2021-2026)

4.4.3 United States Based Manufacturers Silicone Radiation Detector Production (2021-2026)

4.5 China Based Silicone Radiation Detector Manufacturers and Market Share

4.5.1 China Based Silicone Radiation Detector Manufacturers, Headquarters and Production Site (Province, Country)

4.5.2 China Based Manufacturers Silicone Radiation Detector Production Value (2021-2026)

4.5.3 China Based Manufacturers Silicone Radiation Detector Production (2021-2026)

4.6 Rest of World Based Silicone Radiation Detector Manufacturers and Market Share, 2021-2026

4.6.1 Rest of World Based Silicone Radiation Detector Manufacturers, Headquarters and Production Site (State, Country)

4.6.2 Rest of World Based Manufacturers Silicone Radiation Detector Production Value (2021-2026)

4.6.3 Rest of World Based Manufacturers Silicone Radiation Detector Production (2021-2026)

## **5 MARKET ANALYSIS BY TYPE**

5.1 World Silicone Radiation Detector Market Size Overview by Type: 2021 VS 2025 VS 2032

5.2 Segment Introduction by Type

5.2.1 Silicon Lithium Semiconductor Detector

5.2.2 Silicon Drift Detector

5.2.3 Others

5.3 Market Segment by Type

5.3.1 World Silicone Radiation Detector Production by Type (2021-2032)

5.3.2 World Silicone Radiation Detector Production Value by Type (2021-2032)

5.3.3 World Silicone Radiation Detector Average Price by Type (2021-2032)

## **6 MARKET ANALYSIS BY ACTIVE AREA SIZE**

6.1 World Silicone Radiation Detector Market Size Overview by Active Area Size: 2021 VS 2025 VS 2032

6.2 Segment Introduction by Active Area Size

6.2.1 Small Area ( 6.2.2 Medium Area (10-100 mm?)

6.2.3 Large Area (> 100 mm?)

## 6.3 Market Segment by Active Area Size

6.3.1 World Silicone Radiation Detector Production by Active Area Size (2021-2032)

6.3.2 World Silicone Radiation Detector Production Value by Active Area Size (2021-2032)

6.3.3 World Silicone Radiation Detector Average Price by Active Area Size (2021-2032)

## 7 MARKET ANALYSIS BY ENERGY RESOLUTION

7.1 World Silicone Radiation Detector Market Size Overview by Energy Resolution: 2021 VS 2025 VS 2032

7.2 Segment Introduction by Energy Resolution

7.2.1 Standard Resolution

7.2.2 High Resolution

7.2.3 Ultra-High Resolution

7.3 Market Segment by Energy Resolution

7.3.1 World Silicone Radiation Detector Production by Energy Resolution (2021-2032)

7.3.2 World Silicone Radiation Detector Production Value by Energy Resolution (2021-2032)

7.3.3 World Silicone Radiation Detector Average Price by Energy Resolution (2021-2032)

## 8 MARKET ANALYSIS BY APPLICATION

8.1 World Silicone Radiation Detector Market Size Overview by Application: 2021 VS 2025 VS 2032

8.2 Segment Introduction by Application

8.2.1 Medical

8.2.2 Industrial

8.2.3 Military and Homeland Security

8.2.4 Laboratory

8.2.5 Other

8.3 Market Segment by Application

8.3.1 World Silicone Radiation Detector Production by Application (2021-2032)

8.3.2 World Silicone Radiation Detector Production Value by Application (2021-2032)

8.3.3 World Silicone Radiation Detector Average Price by Application (2021-2032)

## 9 COMPANY PROFILES

## 9.1 Mirion Technologies, Inc.

9.1.1 Mirion Technologies, Inc. Details

9.1.2 Mirion Technologies, Inc. Major Business

9.1.3 Mirion Technologies, Inc. Silicone Radiation Detector Product and Services

9.1.4 Mirion Technologies, Inc. Silicone Radiation Detector Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.1.5 Mirion Technologies, Inc. Recent Developments/Updates

9.1.6 Mirion Technologies, Inc. Competitive Strengths & Weaknesses

## 9.2 AMETEK, Inc. (Ortec)

9.2.1 AMETEK, Inc. (Ortec) Details

9.2.2 AMETEK, Inc. (Ortec) Major Business

9.2.3 AMETEK, Inc. (Ortec) Silicone Radiation Detector Product and Services

9.2.4 AMETEK, Inc. (Ortec) Silicone Radiation Detector Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.2.5 AMETEK, Inc. (Ortec) Recent Developments/Updates

9.2.6 AMETEK, Inc. (Ortec) Competitive Strengths & Weaknesses

## 9.3 Hitachi, Ltd.

9.3.1 Hitachi, Ltd. Details

9.3.2 Hitachi, Ltd. Major Business

9.3.3 Hitachi, Ltd. Silicone Radiation Detector Product and Services

9.3.4 Hitachi, Ltd. Silicone Radiation Detector Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.3.5 Hitachi, Ltd. Recent Developments/Updates

9.3.6 Hitachi, Ltd. Competitive Strengths & Weaknesses

## 9.4 Kromek Group plc

9.4.1 Kromek Group plc Details

9.4.2 Kromek Group plc Major Business

9.4.3 Kromek Group plc Silicone Radiation Detector Product and Services

9.4.4 Kromek Group plc Silicone Radiation Detector Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.4.5 Kromek Group plc Recent Developments/Updates

9.4.6 Kromek Group plc Competitive Strengths & Weaknesses

## 9.5 Thermo Fisher Scientific Inc.

9.5.1 Thermo Fisher Scientific Inc. Details

9.5.2 Thermo Fisher Scientific Inc. Major Business

9.5.3 Thermo Fisher Scientific Inc. Silicone Radiation Detector Product and Services

9.5.4 Thermo Fisher Scientific Inc. Silicone Radiation Detector Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.5.5 Thermo Fisher Scientific Inc. Recent Developments/Updates

- 9.5.6 Thermo Fisher Scientific Inc. Competitive Strengths & Weaknesses
- 9.6 Oxford Instruments plc
  - 9.6.1 Oxford Instruments plc Details
  - 9.6.2 Oxford Instruments plc Major Business
  - 9.6.3 Oxford Instruments plc Silicone Radiation Detector Product and Services
  - 9.6.4 Oxford Instruments plc Silicone Radiation Detector Production, Price, Value, Gross Margin and Market Share (2021-2026)
  - 9.6.5 Oxford Instruments plc Recent Developments/Updates
  - 9.6.6 Oxford Instruments plc Competitive Strengths & Weaknesses
- 9.7 Bruker Corporation
  - 9.7.1 Bruker Corporation Details
  - 9.7.2 Bruker Corporation Major Business
  - 9.7.3 Bruker Corporation Silicone Radiation Detector Product and Services
  - 9.7.4 Bruker Corporation Silicone Radiation Detector Production, Price, Value, Gross Margin and Market Share (2021-2026)
  - 9.7.5 Bruker Corporation Recent Developments/Updates
  - 9.7.6 Bruker Corporation Competitive Strengths & Weaknesses
- 9.8 Ketek GmbH
  - 9.8.1 Ketek GmbH Details
  - 9.8.2 Ketek GmbH Major Business
  - 9.8.3 Ketek GmbH Silicone Radiation Detector Product and Services
  - 9.8.4 Ketek GmbH Silicone Radiation Detector Production, Price, Value, Gross Margin and Market Share (2021-2026)
  - 9.8.5 Ketek GmbH Recent Developments/Updates
  - 9.8.6 Ketek GmbH Competitive Strengths & Weaknesses
- 9.9 PNDetector
  - 9.9.1 PNDetector Details
  - 9.9.2 PNDetector Major Business
  - 9.9.3 PNDetector Silicone Radiation Detector Product and Services
  - 9.9.4 PNDetector Silicone Radiation Detector Production, Price, Value, Gross Margin and Market Share (2021-2026)
  - 9.9.5 PNDetector Recent Developments/Updates
  - 9.9.6 PNDetector Competitive Strengths & Weaknesses
- 9.10 Teledyne Judson Technologies
  - 9.10.1 Teledyne Judson Technologies Details
  - 9.10.2 Teledyne Judson Technologies Major Business
  - 9.10.3 Teledyne Judson Technologies Silicone Radiation Detector Product and Services
  - 9.10.4 Teledyne Judson Technologies Silicone Radiation Detector Production, Price,

## Value, Gross Margin and Market Share (2021-2026)

9.10.5 Teledyne Judson Technologies Recent Developments/Updates

9.10.6 Teledyne Judson Technologies Competitive Strengths & Weaknesses

## 9.11 Rayspec Ltd.

9.11.1 Rayspec Ltd. Details

9.11.2 Rayspec Ltd. Major Business

9.11.3 Rayspec Ltd. Silicone Radiation Detector Product and Services

9.11.4 Rayspec Ltd. Silicone Radiation Detector Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.11.5 Rayspec Ltd. Recent Developments/Updates

9.11.6 Rayspec Ltd. Competitive Strengths & Weaknesses

## 9.12 Canberra Industries (Mirion)

9.12.1 Canberra Industries (Mirion) Details

9.12.2 Canberra Industries (Mirion) Major Business

9.12.3 Canberra Industries (Mirion) Silicone Radiation Detector Product and Services

9.12.4 Canberra Industries (Mirion) Silicone Radiation Detector Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.12.5 Canberra Industries (Mirion) Recent Developments/Updates

9.12.6 Canberra Industries (Mirion) Competitive Strengths & Weaknesses

## 9.13 Amptek Inc.

9.13.1 Amptek Inc. Details

9.13.2 Amptek Inc. Major Business

9.13.3 Amptek Inc. Silicone Radiation Detector Product and Services

9.13.4 Amptek Inc. Silicone Radiation Detector Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.13.5 Amptek Inc. Recent Developments/Updates

9.13.6 Amptek Inc. Competitive Strengths & Weaknesses

## 9.14 Redlen Technologies Inc.

9.14.1 Redlen Technologies Inc. Details

9.14.2 Redlen Technologies Inc. Major Business

9.14.3 Redlen Technologies Inc. Silicone Radiation Detector Product and Services

9.14.4 Redlen Technologies Inc. Silicone Radiation Detector Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.14.5 Redlen Technologies Inc. Recent Developments/Updates

9.14.6 Redlen Technologies Inc. Competitive Strengths & Weaknesses

## 9.15 Radiation Monitoring Devices, Inc. (RMD)

9.15.1 Radiation Monitoring Devices, Inc. (RMD) Details

9.15.2 Radiation Monitoring Devices, Inc. (RMD) Major Business

9.15.3 Radiation Monitoring Devices, Inc. (RMD) Silicone Radiation Detector Product

and Services

9.15.4 Radiation Monitoring Devices, Inc. (RMD) Silicone Radiation Detector Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.15.5 Radiation Monitoring Devices, Inc. (RMD) Recent Developments/Updates

9.15.6 Radiation Monitoring Devices, Inc. (RMD) Competitive Strengths & Weaknesses

9.16 Nuclear Photoelectric Technology (Shandong) Co., Ltd.

9.16.1 Nuclear Photoelectric Technology (Shandong) Co., Ltd. Details

9.16.2 Nuclear Photoelectric Technology (Shandong) Co., Ltd. Major Business

9.16.3 Nuclear Photoelectric Technology (Shandong) Co., Ltd. Silicone Radiation Detector Product and Services

9.16.4 Nuclear Photoelectric Technology (Shandong) Co., Ltd. Silicone Radiation Detector Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.16.5 Nuclear Photoelectric Technology (Shandong) Co., Ltd. Recent Developments/Updates

9.16.6 Nuclear Photoelectric Technology (Shandong) Co., Ltd. Competitive Strengths & Weaknesses

9.17 CGN Jingshi Optoelectronics Technology (Tianjin) Co., Ltd.

9.17.1 CGN Jingshi Optoelectronics Technology (Tianjin) Co., Ltd. Details

9.17.2 CGN Jingshi Optoelectronics Technology (Tianjin) Co., Ltd. Major Business

9.17.3 CGN Jingshi Optoelectronics Technology (Tianjin) Co., Ltd. Silicone Radiation Detector Product and Services

9.17.4 CGN Jingshi Optoelectronics Technology (Tianjin) Co., Ltd. Silicone Radiation Detector Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.17.5 CGN Jingshi Optoelectronics Technology (Tianjin) Co., Ltd. Recent Developments/Updates

9.17.6 CGN Jingshi Optoelectronics Technology (Tianjin) Co., Ltd. Competitive Strengths & Weaknesses

9.18 Hangzhou Yong Hee Photonics Co., Ltd.

9.18.1 Hangzhou Yong Hee Photonics Co., Ltd. Details

9.18.2 Hangzhou Yong Hee Photonics Co., Ltd. Major Business

9.18.3 Hangzhou Yong Hee Photonics Co., Ltd. Silicone Radiation Detector Product and Services

9.18.4 Hangzhou Yong Hee Photonics Co., Ltd. Silicone Radiation Detector Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.18.5 Hangzhou Yong Hee Photonics Co., Ltd. Recent Developments/Updates

9.18.6 Hangzhou Yong Hee Photonics Co., Ltd. Competitive Strengths & Weaknesses

9.19 Shanghai Gesheng Electronic Technology Co., Ltd.

9.19.1 Shanghai Gesheng Electronic Technology Co., Ltd. Details

- 9.19.2 Shanghai Gesheng Electronic Technology Co., Ltd. Major Business
- 9.19.3 Shanghai Gesheng Electronic Technology Co., Ltd. Silicone Radiation Detector Product and Services
- 9.19.4 Shanghai Gesheng Electronic Technology Co., Ltd. Silicone Radiation Detector Production, Price, Value, Gross Margin and Market Share (2021-2026)
- 9.19.5 Shanghai Gesheng Electronic Technology Co., Ltd. Recent Developments/Updates
- 9.19.6 Shanghai Gesheng Electronic Technology Co., Ltd. Competitive Strengths & Weaknesses

## **10 INDUSTRY CHAIN ANALYSIS**

- 10.1 Silicone Radiation Detector Industry Chain
- 10.2 Silicone Radiation Detector Upstream Analysis
  - 10.2.1 Silicone Radiation Detector Core Raw Materials
  - 10.2.2 Main Manufacturers of Silicone Radiation Detector Core Raw Materials
- 10.3 Midstream Analysis
- 10.4 Downstream Analysis
- 10.5 Silicone Radiation Detector Production Mode
- 10.6 Silicone Radiation Detector Procurement Model
- 10.7 Silicone Radiation Detector Industry Sales Model and Sales Channels
  - 10.7.1 Silicone Radiation Detector Sales Model
  - 10.7.2 Silicone Radiation Detector 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 Silicone Radiation Detector Production Value by Region (2021, 2025 and 2032) & (USD Million)

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

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

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

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

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

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

Table 8. World Silicone Radiation Detector Production Market Share by Region (2021-2026)

Table 9. World Silicone Radiation Detector Production Market Share by Region (2027-2032)

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

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

Table 12. Silicone Radiation Detector Major Market Trends

Table 13. World Silicone Radiation Detector Consumption Growth Rate Forecast by Region (2021 & 2025 & 2032) & (K Units)

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

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

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

Table 17. Production Value Market Share of Key Silicone Radiation Detector Producers in 2025

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

Table 19. Production Market Share of Key Silicone Radiation Detector Producers in 2025

Table 20. World Silicone Radiation Detector Average Price by Manufacturer (2021-2026) & (US\$/Unit)

Table 21. Global Silicone Radiation Detector Company Evaluation Quadrant

Table 22. World Silicone Radiation Detector Industry Rank of Major Manufacturers, Based on Production Value in 2025

Table 23. Head Office and Silicone Radiation Detector Production Site of Key Manufacturer

Table 24. Silicone Radiation Detector Market: Company Product Type Footprint

Table 25. Silicone Radiation Detector Market: Company Product Application Footprint

Table 26. Silicone Radiation Detector Competitive Factors

Table 27. Silicone Radiation Detector New Entrant and Capacity Expansion Plans

Table 28. Silicone Radiation Detector Mergers & Acquisitions Activity

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

Table 30. United States VS China Silicone Radiation Detector Production Comparison, (2021 & 2025 & 2032) & (K Units)

Table 31. United States VS China Silicone Radiation Detector Consumption Comparison, (2021 & 2025 & 2032) & (K Units)

Table 32. United States Based Silicone Radiation Detector Manufacturers, Headquarters and Production Site (States, Country)

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

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

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

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

Table 37. China Based Silicone Radiation Detector Manufacturers, Headquarters and Production Site (Province, Country)

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

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

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

Table 41. China Based Manufacturers Silicone Radiation Detector Production Market

Share (2021-2026)

Table 42. Rest of World Based Silicone Radiation Detector Manufacturers, Headquarters and Production Site (State, Country)

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

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

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

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

Table 47. World Silicone Radiation Detector Production Value by Type, (USD Million), 2021 & 2025 & 2032

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

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

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

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

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

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

Table 54. World Silicone Radiation Detector Production Value by Active Area Size, (USD Million), 2021 & 2025 & 2032

Table 55. World Silicone Radiation Detector Production by Active Area Size (2021-2026) & (K Units)

Table 56. World Silicone Radiation Detector Production by Active Area Size (2027-2032) & (K Units)

Table 57. World Silicone Radiation Detector Production Value by Active Area Size (2021-2026) & (USD Million)

Table 58. World Silicone Radiation Detector Production Value by Active Area Size (2027-2032) & (USD Million)

Table 59. World Silicone Radiation Detector Average Price by Active Area Size (2021-2026) & (US\$/Unit)

Table 60. World Silicone Radiation Detector Average Price by Active Area Size (2027-2032) & (US\$/Unit)

Table 61. World Silicone Radiation Detector Production Value by Energy Resolution, (USD Million), 2021 & 2025 & 2032

Table 62. World Silicone Radiation Detector Production by Energy Resolution (2021-2026) & (K Units)

Table 63. World Silicone Radiation Detector Production by Energy Resolution (2027-2032) & (K Units)

Table 64. World Silicone Radiation Detector Production Value by Energy Resolution (2021-2026) & (USD Million)

Table 65. World Silicone Radiation Detector Production Value by Energy Resolution (2027-2032) & (USD Million)

Table 66. World Silicone Radiation Detector Average Price by Energy Resolution (2021-2026) & (US\$/Unit)

Table 67. World Silicone Radiation Detector Average Price by Energy Resolution (2027-2032) & (US\$/Unit)

Table 68. World Silicone Radiation Detector Production Value by Application, (USD Million), 2021 & 2025 & 2032

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

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

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

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

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

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

Table 75. Mirion Technologies, Inc. Basic Information, Manufacturing Base and Competitors

Table 76. Mirion Technologies, Inc. Major Business

Table 77. Mirion Technologies, Inc. Silicone Radiation Detector Product and Services

Table 78. Mirion Technologies, Inc. Silicone Radiation Detector Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 79. Mirion Technologies, Inc. Recent Developments/Updates

Table 80. Mirion Technologies, Inc. Competitive Strengths & Weaknesses

Table 81. AMETEK, Inc. (Ortec) Basic Information, Manufacturing Base and Competitors

Table 82. AMETEK, Inc. (Ortec) Major Business

Table 83. AMETEK, Inc. (Ortec) Silicone Radiation Detector Product and Services

Table 84. AMETEK, Inc. (Ortec) Silicone Radiation Detector Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 85. AMETEK, Inc. (Ortec) Recent Developments/Updates

Table 86. AMETEK, Inc. (Ortec) Competitive Strengths & Weaknesses

Table 87. Hitachi, Ltd. Basic Information, Manufacturing Base and Competitors

Table 88. Hitachi, Ltd. Major Business

Table 89. Hitachi, Ltd. Silicone Radiation Detector Product and Services

Table 90. Hitachi, Ltd. Silicone Radiation Detector Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 91. Hitachi, Ltd. Recent Developments/Updates

Table 92. Hitachi, Ltd. Competitive Strengths & Weaknesses

Table 93. Kromek Group plc Basic Information, Manufacturing Base and Competitors

Table 94. Kromek Group plc Major Business

Table 95. Kromek Group plc Silicone Radiation Detector Product and Services

Table 96. Kromek Group plc Silicone Radiation Detector Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 97. Kromek Group plc Recent Developments/Updates

Table 98. Kromek Group plc Competitive Strengths & Weaknesses

Table 99. Thermo Fisher Scientific Inc. Basic Information, Manufacturing Base and Competitors

Table 100. Thermo Fisher Scientific Inc. Major Business

Table 101. Thermo Fisher Scientific Inc. Silicone Radiation Detector Product and Services

Table 102. Thermo Fisher Scientific Inc. Silicone Radiation Detector Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 103. Thermo Fisher Scientific Inc. Recent Developments/Updates

Table 104. Thermo Fisher Scientific Inc. Competitive Strengths & Weaknesses

Table 105. Oxford Instruments plc Basic Information, Manufacturing Base and Competitors

Table 106. Oxford Instruments plc Major Business

Table 107. Oxford Instruments plc Silicone Radiation Detector Product and Services

Table 108. Oxford Instruments plc Silicone Radiation Detector Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share

(2021-2026)

Table 109. Oxford Instruments plc Recent Developments/Updates

Table 110. Oxford Instruments plc Competitive Strengths & Weaknesses

Table 111. Bruker Corporation Basic Information, Manufacturing Base and Competitors

Table 112. Bruker Corporation Major Business

Table 113. Bruker Corporation Silicone Radiation Detector Product and Services

Table 114. Bruker Corporation Silicone Radiation Detector Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share

(2021-2026)

Table 115. Bruker Corporation Recent Developments/Updates

Table 116. Bruker Corporation Competitive Strengths & Weaknesses

Table 117. Ketek GmbH Basic Information, Manufacturing Base and Competitors

Table 118. Ketek GmbH Major Business

Table 119. Ketek GmbH Silicone Radiation Detector Product and Services

Table 120. Ketek GmbH Silicone Radiation Detector Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share

(2021-2026)

Table 121. Ketek GmbH Recent Developments/Updates

Table 122. Ketek GmbH Competitive Strengths & Weaknesses

Table 123. PNDetector Basic Information, Manufacturing Base and Competitors

Table 124. PNDetector Major Business

Table 125. PNDetector Silicone Radiation Detector Product and Services

Table 126. PNDetector Silicone Radiation Detector Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share

(2021-2026)

Table 127. PNDetector Recent Developments/Updates

Table 128. PNDetector Competitive Strengths & Weaknesses

Table 129. Teledyne Judson Technologies Basic Information, Manufacturing Base and Competitors

Table 130. Teledyne Judson Technologies Major Business

Table 131. Teledyne Judson Technologies Silicone Radiation Detector Product and Services

Table 132. Teledyne Judson Technologies Silicone Radiation Detector Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 133. Teledyne Judson Technologies Recent Developments/Updates

Table 134. Teledyne Judson Technologies Competitive Strengths & Weaknesses

Table 135. Rayspec Ltd. Basic Information, Manufacturing Base and Competitors

Table 136. Rayspec Ltd. Major Business

- Table 137. Rayspec Ltd. Silicone Radiation Detector Product and Services
- Table 138. Rayspec Ltd. Silicone Radiation Detector Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 139. Rayspec Ltd. Recent Developments/Updates
- Table 140. Rayspec Ltd. Competitive Strengths & Weaknesses
- Table 141. Canberra Industries (Mirion) Basic Information, Manufacturing Base and Competitors
- Table 142. Canberra Industries (Mirion) Major Business
- Table 143. Canberra Industries (Mirion) Silicone Radiation Detector Product and Services
- Table 144. Canberra Industries (Mirion) Silicone Radiation Detector Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 145. Canberra Industries (Mirion) Recent Developments/Updates
- Table 146. Canberra Industries (Mirion) Competitive Strengths & Weaknesses
- Table 147. Amptek Inc. Basic Information, Manufacturing Base and Competitors
- Table 148. Amptek Inc. Major Business
- Table 149. Amptek Inc. Silicone Radiation Detector Product and Services
- Table 150. Amptek Inc. Silicone Radiation Detector Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 151. Amptek Inc. Recent Developments/Updates
- Table 152. Amptek Inc. Competitive Strengths & Weaknesses
- Table 153. Redlen Technologies Inc. Basic Information, Manufacturing Base and Competitors
- Table 154. Redlen Technologies Inc. Major Business
- Table 155. Redlen Technologies Inc. Silicone Radiation Detector Product and Services
- Table 156. Redlen Technologies Inc. Silicone Radiation Detector Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 157. Redlen Technologies Inc. Recent Developments/Updates
- Table 158. Redlen Technologies Inc. Competitive Strengths & Weaknesses
- Table 159. Radiation Monitoring Devices, Inc. (RMD) Basic Information, Manufacturing Base and Competitors
- Table 160. Radiation Monitoring Devices, Inc. (RMD) Major Business
- Table 161. Radiation Monitoring Devices, Inc. (RMD) Silicone Radiation Detector Product and Services
- Table 162. Radiation Monitoring Devices, Inc. (RMD) Silicone Radiation Detector

Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 163. Radiation Monitoring Devices, Inc. (RMD) Recent Developments/Updates

Table 164. Radiation Monitoring Devices, Inc. (RMD) Competitive Strengths & Weaknesses

Table 165. Nuclear Photoelectric Technology (Shandong) Co., Ltd. Basic Information, Manufacturing Base and Competitors

Table 166. Nuclear Photoelectric Technology (Shandong) Co., Ltd. Major Business

Table 167. Nuclear Photoelectric Technology (Shandong) Co., Ltd. Silicone Radiation Detector Product and Services

Table 168. Nuclear Photoelectric Technology (Shandong) Co., Ltd. Silicone Radiation Detector Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 169. Nuclear Photoelectric Technology (Shandong) Co., Ltd. Recent Developments/Updates

Table 170. Nuclear Photoelectric Technology (Shandong) Co., Ltd. Competitive Strengths & Weaknesses

Table 171. CGN Jingshi Optoelectronics Technology (Tianjin) Co., Ltd. Basic Information, Manufacturing Base and Competitors

Table 172. CGN Jingshi Optoelectronics Technology (Tianjin) Co., Ltd. Major Business

Table 173. CGN Jingshi Optoelectronics Technology (Tianjin) Co., Ltd. Silicone Radiation Detector Product and Services

Table 174. CGN Jingshi Optoelectronics Technology (Tianjin) Co., Ltd. Silicone Radiation Detector Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 175. CGN Jingshi Optoelectronics Technology (Tianjin) Co., Ltd. Recent Developments/Updates

Table 176. CGN Jingshi Optoelectronics Technology (Tianjin) Co., Ltd. Competitive Strengths & Weaknesses

Table 177. Hangzhou Yong Hee Photonics Co., Ltd. Basic Information, Manufacturing Base and Competitors

Table 178. Hangzhou Yong Hee Photonics Co., Ltd. Major Business

Table 179. Hangzhou Yong Hee Photonics Co., Ltd. Silicone Radiation Detector Product and Services

Table 180. Hangzhou Yong Hee Photonics Co., Ltd. Silicone Radiation Detector Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 181. Hangzhou Yong Hee Photonics Co., Ltd. Recent Developments/Updates

Table 182. Hangzhou Yong Hee Photonics Co., Ltd. Competitive Strengths &

## Weaknesses

Table 183. Shanghai Gesheng Electronic Technology Co., Ltd. Basic Information, Manufacturing Base and Competitors

Table 184. Shanghai Gesheng Electronic Technology Co., Ltd. Major Business

Table 185. Shanghai Gesheng Electronic Technology Co., Ltd. Silicone Radiation Detector Product and Services

Table 186. Shanghai Gesheng Electronic Technology Co., Ltd. Silicone Radiation Detector Production (K Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 187. Shanghai Gesheng Electronic Technology Co., Ltd. Recent Developments/Updates

Table 188. Shanghai Gesheng Electronic Technology Co., Ltd. Competitive Strengths & Weaknesses

Table 189. Global Key Players of Silicone Radiation Detector Upstream (Raw Materials)

Table 190. Global Silicone Radiation Detector Typical Customers

Table 191. Silicone Radiation Detector Typical Distributors

## List Of Figures

### LIST OF FIGURES

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

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

Figure 27. United States VS China: Silicone Radiation Detector Production Market Share Comparison (2021 & 2025 & 2032)

Figure 28. United States VS China: Silicone Radiation Detector Consumption Market Share Comparison (2021 & 2025 & 2032)

Figure 29. United States Based Manufacturers Silicone Radiation Detector Production Market Share 2025

Figure 30. China Based Manufacturers Silicone Radiation Detector Production Market Share 2025

Figure 31. Rest of World Based Manufacturers Silicone Radiation Detector Production Market Share 2025

Figure 32. World Silicone Radiation Detector Production Value by Type, (USD Million), 2021 & 2025 & 2032

Figure 33. World Silicone Radiation Detector Production Value Market Share by Type in 2025

Figure 34. Silicon Lithium Semiconductor Detector

Figure 35. Silicon Drift Detector

Figure 36. Others

Figure 37. World Silicone Radiation Detector Production Market Share by Type (2021-2032)

Figure 38. World Silicone Radiation Detector Production Value Market Share by Type (2021-2032)

Figure 39. World Silicone Radiation Detector Average Price by Type (2021-2032) & (US\$/Unit)

Figure 40. World Silicone Radiation Detector Production Value by Active Area Size, (USD Million), 2021 & 2025 & 2032

Figure 41. World Silicone Radiation Detector Production Value Market Share by Active Area Size in 2025

Figure 42. Small Area (Figure 43. Medium Area (10-100 mm?))

Figure 44. Large Area (> 100 mm?)

Figure 45. World Silicone Radiation Detector Production Market Share by Active Area Size (2021-2032)

Figure 46. World Silicone Radiation Detector Production Value Market Share by Active Area Size (2021-2032)

Figure 47. World Silicone Radiation Detector Average Price by Active Area Size (2021-2032) & (US\$/Unit)

Figure 48. World Silicone Radiation Detector Production Value by Energy Resolution, (USD Million), 2021 & 2025 & 2032

Figure 49. World Silicone Radiation Detector Production Value Market Share by Energy Resolution in 2025

Figure 50. Standard Resolution

Figure 51. High Resolution

Figure 52. Ultra-High Resolution

Figure 53. World Silicone Radiation Detector Production Market Share by Energy Resolution (2021-2032)

Figure 54. World Silicone Radiation Detector Production Value Market Share by Energy Resolution (2021-2032)

Figure 55. World Silicone Radiation Detector Average Price by Energy Resolution (2021-2032) & (US\$/Unit)

Figure 56. World Silicone Radiation Detector Production Value by Application, (USD Million), 2021 & 2025 & 2032

Figure 57. World Silicone Radiation Detector Production Value Market Share by Application in 2025

Figure 58. Medical

Figure 59. Industrial

Figure 60. Military and Homeland Security

Figure 61. Laboratory

Figure 62. Other

Figure 63. World Silicone Radiation Detector Production Market Share by Application (2021-2032)

Figure 64. World Silicone Radiation Detector Production Value Market Share by Application (2021-2032)

Figure 65. World Silicone Radiation Detector Average Price by Application (2021-2032) & (US\$/Unit)

Figure 66. Silicone Radiation Detector Industry Chain

Figure 67. Silicone Radiation Detector Procurement Model

Figure 68. Silicone Radiation Detector Sales Model

Figure 69. Silicone Radiation Detector Sales Channels, Direct Sales, and Distribution

Figure 70. Methodology

Figure 71. Research Process and Data Source

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