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Global Silicon Thermistor Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Silicon Thermistor market size is expected to reach $ 149 million by 2032, rising at a market growth of 6.1% CAGR during the forecast period (2026-2032).

A silicon thermistor is a thermistor element that uses silicon semiconductor material as the temperature-sensitive medium. Its resistance changes in a regular and predictable manner with temperature, and it typically exhibits a positive temperature coefficient characteristic.

This type of device can be used in temperature measurement, temperature compensation, over-temperature protection, circuit bias compensation, battery management, automotive electronics, industrial control, consumer electronics, and communication equipment.

Compared with traditional NTC thermistors, silicon thermistors usually offer better linearity, long-term stability, batch-to-batch consistency, and compatibility with semiconductor manufacturing processes. Compared with platinum resistance temperature detectors, they generally offer advantages in cost and ease of integration, although they typically do not fully replace platinum RTDs in high-precision and high-temperature-range applications.

Silicon thermistors are a steadily growing segment within a mature industry. They are not an explosive emerging market, but they still have stable growth potential, driven by demand from automotive electronics, battery management, energy storage, charging piles, servers, power modules, and industrial automation.

From the perspective of substitution and competition, silicon thermistors mainly

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compete with NTC thermistors, ceramic PTC thermistors, RTDs, and integrated temperature sensor ICs. Their advantages lie in linearity, stability, consistency, and compatibility with semiconductor manufacturing processes. Their disadvantages are that market awareness and the number of suppliers are generally not as broad as those of NTC thermistors.

This report studies the global Silicon Thermistor production, demand, key manufacturers, and key regions.

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

Highlights and key features of the study

Global Silicon Thermistor total production and demand, 2021-2032, (K Units)
Global Silicon Thermistor total production value, 2021-2032, (USD Million)
Global Silicon Thermistor production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (K Units), (based on production site)
Global Silicon Thermistor consumption by region & country, CAGR, 2021-2032 & (K Units)
U.S. VS China: Silicon Thermistor domestic production, consumption, key domestic manufacturers and share
Global Silicon Thermistor production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (K Units)
Global Silicon Thermistor production by Temperature Range, production, value, CAGR, 2021-2032, (USD Million) & (K Units)
Global Silicon Thermistor production by Application, production, value, CAGR, 2021-2032, (USD Million) & (K Units)

This report profiles key players in the global Silicon Thermistor 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 Texas Instruments, NXP Semiconductors, AMWEI Thermistor Sensor, FocuSens, Dongguan Ampfort Electronics Co., Ltd., etc.

This report also provides key insights about market drivers, restraints, opportunities,

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new product launches or approvals.

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World Silicon Thermistor 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 Temperature Range, 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 Silicon Thermistor Market, By Region:

- United States
- China
- Europe
- Japan
- South Korea
- ASEAN
- India
- Rest of World

Global Silicon Thermistor Market, Segmentation by Temperature Range:

- Standard Temperature Range
- Wide Temperature Range
- High Temperature Range

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Low Temperature Range

Global Silicon Thermistor Market, Segmentation by Temperature Coefficient:

Silicon PTC Thermistor

Silicon NTC-like Temperature Sensor

Global Silicon Thermistor Market, Segmentation by Resistance Value:

Low Resistance

Medium Resistance

High Resistance

Global Silicon Thermistor Market, Segmentation by Application:

Consumer Electronics

Energy & Battery

Automobile

Home Appliances

Industrial Equipment

Telecom & Data Center

Companies Profiled:

Texas Instruments

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NXP Semiconductors

AMWEI Thermistor Sensor

FocuSens

Dongguan Ampfort Electronics Co., Ltd.

Key Questions Answered:
1. How big is the global Silicon Thermistor market?
2. What is the demand of the global Silicon Thermistor market?
3. What is the year over year growth of the global Silicon Thermistor market?
4. What is the production and production value of the global Silicon Thermistor market?
5. Who are the key producers in the global Silicon Thermistor market?
6. What are the growth factors driving the market demand?

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Contents

1 SUPPLY SUMMARY

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

2 DEMAND SUMMARY

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

3 WORLD MANUFACTURERS COMPETITIVE ANALYSIS

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

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4.4.1 United States Based Silicon Thermistor Manufacturers, Headquarters and Production Site (States, Country)
4.4.2 United States Based Manufacturers Silicon Thermistor Production Value (2021-2026)
4.4.3 United States Based Manufacturers Silicon Thermistor Production (2021-2026)
4.5 China Based Silicon Thermistor Manufacturers and Market Share
4.5.1 China Based Silicon Thermistor Manufacturers, Headquarters and Production Site (Province, Country)
4.5.2 China Based Manufacturers Silicon Thermistor Production Value (2021-2026)
4.5.3 China Based Manufacturers Silicon Thermistor Production (2021-2026)
4.6 Rest of World Based Silicon Thermistor Manufacturers and Market Share, 2021-2026
4.6.1 Rest of World Based Silicon Thermistor Manufacturers, Headquarters and Production Site (State, Country)
4.6.2 Rest of World Based Manufacturers Silicon Thermistor Production Value (2021-2026)
4.6.3 Rest of World Based Manufacturers Silicon Thermistor Production (2021-2026)

5 MARKET ANALYSIS BY TEMPERATURE RANGE

5.1 World Silicon Thermistor Market Size Overview by Temperature Range: 2021 VS 2025 VS 2032
5.2 Segment Introduction by Temperature Range
5.2.1 Standard Temperature Range
5.2.2 Wide Temperature Range
5.2.3 High Temperature Range
5.2.4 Low Temperature Range
5.3 Market Segment by Temperature Range
5.3.1 World Silicon Thermistor Production by Temperature Range (2021-2032)
5.3.2 World Silicon Thermistor Production Value by Temperature Range (2021-2032)
5.3.3 World Silicon Thermistor Average Price by Temperature Range (2021-2032)

6 MARKET ANALYSIS BY TEMPERATURE COEFFICIENT

6.1 World Silicon Thermistor Market Size Overview by Temperature Coefficient: 2021 VS 2025 VS 2032
6.2 Segment Introduction by Temperature Coefficient
6.2.1 Silicon PTC Thermistor
6.2.2 Silicon NTC-like Temperature Sensor

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6.3 Market Segment by Temperature Coefficient
6.3.1 World Silicon Thermistor Production by Temperature Coefficient (2021-2032)
6.3.2 World Silicon Thermistor Production Value by Temperature Coefficient (2021-2032)
6.3.3 World Silicon Thermistor Average Price by Temperature Coefficient (2021-2032)

7 MARKET ANALYSIS BY RESISTANCE VALUE

7.1 World Silicon Thermistor Market Size Overview by Resistance Value: 2021 VS 2025 VS 2032
7.2 Segment Introduction by Resistance Value
7.2.1 Low Resistance
7.2.2 Medium Resistance
7.2.3 High Resistance
7.3 Market Segment by Resistance Value
7.3.1 World Silicon Thermistor Production by Resistance Value (2021-2032)
7.3.2 World Silicon Thermistor Production Value by Resistance Value (2021-2032)
7.3.3 World Silicon Thermistor Average Price by Resistance Value (2021-2032)

8 MARKET ANALYSIS BY APPLICATION

8.1 World Silicon Thermistor Market Size Overview by Application: 2021 VS 2025 VS 2032
8.2 Segment Introduction by Application
8.2.1 Consumer Electronics
8.2.2 Energy & Battery
8.2.3 Automobile
8.2.4 Home Appliances
8.2.5 Industrial Equipment
8.2.6 Telecom & Data Center
8.3 Market Segment by Application
8.3.1 World Silicon Thermistor Production by Application (2021-2032)
8.3.2 World Silicon Thermistor Production Value by Application (2021-2032)
8.3.3 World Silicon Thermistor Average Price by Application (2021-2032)

9 COMPANY PROFILES

9.1 Texas Instruments
9.1.1 Texas Instruments Details

+357 96 030922
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9.1.2 Texas Instruments Major Business
9.1.3 Texas Instruments Silicon Thermistor Product and Services
9.1.4 Texas Instruments Silicon Thermistor Production, Price, Value, Gross Margin and Market Share (2021-2026)
9.1.5 Texas Instruments Recent Developments/Updates
9.1.6 Texas Instruments Competitive Strengths & Weaknesses
9.2 NXP Semiconductors
9.2.1 NXP Semiconductors Details
9.2.2 NXP Semiconductors Major Business
9.2.3 NXP Semiconductors Silicon Thermistor Product and Services
9.2.4 NXP Semiconductors Silicon Thermistor Production, Price, Value, Gross Margin and Market Share (2021-2026)
9.2.5 NXP Semiconductors Recent Developments/Updates
9.2.6 NXP Semiconductors Competitive Strengths & Weaknesses
9.3 AMWEI Thermistor Sensor
9.3.1 AMWEI Thermistor Sensor Details
9.3.2 AMWEI Thermistor Sensor Major Business
9.3.3 AMWEI Thermistor Sensor Silicon Thermistor Product and Services
9.3.4 AMWEI Thermistor Sensor Silicon Thermistor Production, Price, Value, Gross Margin and Market Share (2021-2026)
9.3.5 AMWEI Thermistor Sensor Recent Developments/Updates
9.3.6 AMWEI Thermistor Sensor Competitive Strengths & Weaknesses
9.4 FocuSens
9.4.1 FocuSens Details
9.4.2 FocuSens Major Business
9.4.3 FocuSens Silicon Thermistor Product and Services
9.4.4 FocuSens Silicon Thermistor Production, Price, Value, Gross Margin and Market Share (2021-2026)
9.4.5 FocuSens Recent Developments/Updates
9.4.6 FocuSens Competitive Strengths & Weaknesses
9.5 Dongguan Ampfort Electronics Co., Ltd.
9.5.1 Dongguan Ampfort Electronics Co., Ltd. Details
9.5.2 Dongguan Ampfort Electronics Co., Ltd. Major Business
9.5.3 Dongguan Ampfort Electronics Co., Ltd. Silicon Thermistor Product and Services
9.5.4 Dongguan Ampfort Electronics Co., Ltd. Silicon Thermistor Production, Price, Value, Gross Margin and Market Share (2021-2026)
9.5.5 Dongguan Ampfort Electronics Co., Ltd. Recent Developments/Updates
9.5.6 Dongguan Ampfort Electronics Co., Ltd. Competitive Strengths & Weaknesses

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info@marketpublishers.com

10 INDUSTRY CHAIN ANALYSIS

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

11 RESEARCH FINDINGS AND CONCLUSION

12 APPENDIX

12.1 Methodology
12.2 Research Process and Data Source
12.3 Disclaimer

+357 96 030922
info@marketpublishers.com

List Of Tables

LIST OF TABLES

Table 1. World Silicon Thermistor Production Value by Region (2021, 2025 and 2032) & (USD Million)
Table 2. World Silicon Thermistor Production Value by Region (2021-2026) & (USD Million)
Table 3. World Silicon Thermistor Production Value by Region (2027-2032) & (USD Million)
Table 4. World Silicon Thermistor Production Value Market Share by Region (2021-2026)
Table 5. World Silicon Thermistor Production Value Market Share by Region (2027-2032)
Table 6. World Silicon Thermistor Production by Region (2021-2026) & (K Units)
Table 7. World Silicon Thermistor Production by Region (2027-2032) & (K Units)
Table 8. World Silicon Thermistor Production Market Share by Region (2021-2026)
Table 9. World Silicon Thermistor Production Market Share by Region (2027-2032)
Table 10. World Silicon Thermistor Average Price by Region (2021-2026) & (US$/Unit)
Table 11. World Silicon Thermistor Average Price by Region (2027-2032) & (US$/Unit)
Table 12. Silicon Thermistor Major Market Trends
Table 13. World Silicon Thermistor Consumption Growth Rate Forecast by Region (2021 & 2025 & 2032) & (K Units)
Table 14. World Silicon Thermistor Consumption by Region (2021-2026) & (K Units)
Table 15. World Silicon Thermistor Consumption Forecast by Region (2027-2032) & (K Units)
Table 16. World Silicon Thermistor Production Value by Manufacturer (2021-2026) & (USD Million)
Table 17. Production Value Market Share of Key Silicon Thermistor Producers in 2025
Table 18. World Silicon Thermistor Production by Manufacturer (2021-2026) & (K Units)
Table 19. Production Market Share of Key Silicon Thermistor Producers in 2025
Table 20. World Silicon Thermistor Average Price by Manufacturer (2021-2026) & (US$/Unit)
Table 21. Global Silicon Thermistor Company Evaluation Quadrant
Table 22. World Silicon Thermistor Industry Rank of Major Manufacturers, Based on Production Value in 2025
Table 23. Head Office and Silicon Thermistor Production Site of Key Manufacturer
Table 24. Silicon Thermistor Market: Company Product Type Footprint
Table 25. Silicon Thermistor Market: Company Product Application Footprint

+357 96 030922
info@marketpublishers.com

Table 26. Silicon Thermistor Competitive Factors
Table 27. Silicon Thermistor New Entrant and Capacity Expansion Plans
Table 28. Silicon Thermistor Mergers & Acquisitions Activity
Table 29. United States VS China Silicon Thermistor Production Value Comparison, (2021 & 2025 & 2032) & (USD Million)
Table 30. United States VS China Silicon Thermistor Production Comparison, (2021 & 2025 & 2032) & (K Units)
Table 31. United States VS China Silicon Thermistor Consumption Comparison, (2021 & 2025 & 2032) & (K Units)
Table 32. United States Based Silicon Thermistor Manufacturers, Headquarters and Production Site (States, Country)
Table 33. United States Based Manufacturers Silicon Thermistor Production Value, (2021-2026) & (USD Million)
Table 34. United States Based Manufacturers Silicon Thermistor Production Value Market Share (2021-2026)
Table 35. United States Based Manufacturers Silicon Thermistor Production (2021-2026) & (K Units)
Table 36. United States Based Manufacturers Silicon Thermistor Production Market Share (2021-2026)
Table 37. China Based Silicon Thermistor Manufacturers, Headquarters and Production Site (Province, Country)
Table 38. China Based Manufacturers Silicon Thermistor Production Value, (2021-2026) & (USD Million)
Table 39. China Based Manufacturers Silicon Thermistor Production Value Market Share (2021-2026)
Table 40. China Based Manufacturers Silicon Thermistor Production, (2021-2026) & (K Units)
Table 41. China Based Manufacturers Silicon Thermistor Production Market Share (2021-2026)
Table 42. Rest of World Based Silicon Thermistor Manufacturers, Headquarters and Production Site (State, Country)
Table 43. Rest of World Based Manufacturers Silicon Thermistor Production Value, (2021-2026) & (USD Million)
Table 44. Rest of World Based Manufacturers Silicon Thermistor Production Value Market Share (2021-2026)
Table 45. Rest of World Based Manufacturers Silicon Thermistor Production, (2021-2026) & (K Units)
Table 46. Rest of World Based Manufacturers Silicon Thermistor Production Market Share (2021-2026)

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Table 47. World Silicon Thermistor Production Value by Temperature Range, (USD Million), 2021 & 2025 & 2032
Table 48. World Silicon Thermistor Production by Temperature Range (2021-2026) & (K Units)
Table 49. World Silicon Thermistor Production by Temperature Range (2027-2032) & (K Units)
Table 50. World Silicon Thermistor Production Value by Temperature Range (2021-2026) & (USD Million)
Table 51. World Silicon Thermistor Production Value by Temperature Range (2027-2032) & (USD Million)
Table 52. World Silicon Thermistor Average Price by Temperature Range (2021-2026) & (US$/Unit)
Table 53. World Silicon Thermistor Average Price by Temperature Range (2027-2032) & (US$/Unit)
Table 54. World Silicon Thermistor Production Value by Temperature Coefficient, (USD Million), 2021 & 2025 & 2032
Table 55. World Silicon Thermistor Production by Temperature Coefficient (2021-2026) & (K Units)
Table 56. World Silicon Thermistor Production by Temperature Coefficient (2027-2032) & (K Units)
Table 57. World Silicon Thermistor Production Value by Temperature Coefficient (2021-2026) & (USD Million)
Table 58. World Silicon Thermistor Production Value by Temperature Coefficient (2027-2032) & (USD Million)
Table 59. World Silicon Thermistor Average Price by Temperature Coefficient (2021-2026) & (US$/Unit)
Table 60. World Silicon Thermistor Average Price by Temperature Coefficient (2027-2032) & (US$/Unit)
Table 61. World Silicon Thermistor Production Value by Resistance Value, (USD Million), 2021 & 2025 & 2032
Table 62. World Silicon Thermistor Production by Resistance Value (2021-2026) & (K Units)
Table 63. World Silicon Thermistor Production by Resistance Value (2027-2032) & (K Units)
Table 64. World Silicon Thermistor Production Value by Resistance Value (2021-2026) & (USD Million)
Table 65. World Silicon Thermistor Production Value by Resistance Value (2027-2032) & (USD Million)
Table 66. World Silicon Thermistor Average Price by Resistance Value (2021-2026) &

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(US$/Unit)
Table 67. World Silicon Thermistor Average Price by Resistance Value (2027-2032) & (US$/Unit)
Table 68. World Silicon Thermistor Production Value by Application, (USD Million), 2021 & 2025 & 2032
Table 69. World Silicon Thermistor Production by Application (2021-2026) & (K Units)
Table 70. World Silicon Thermistor Production by Application (2027-2032) & (K Units)
Table 71. World Silicon Thermistor Production Value by Application (2021-2026) & (USD Million)
Table 72. World Silicon Thermistor Production Value by Application (2027-2032) & (USD Million)
Table 73. World Silicon Thermistor Average Price by Application (2021-2026) & (US$/Unit)
Table 74. World Silicon Thermistor Average Price by Application (2027-2032) & (US$/Unit)
Table 75. Texas Instruments Basic Information, Manufacturing Base and Competitors
Table 76. Texas Instruments Major Business
Table 77. Texas Instruments Silicon Thermistor Product and Services
Table 78. Texas Instruments Silicon Thermistor Production (K Units), Price (US$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 79. Texas Instruments Recent Developments/Updates
Table 80. Texas Instruments Competitive Strengths & Weaknesses
Table 81. NXP Semiconductors Basic Information, Manufacturing Base and Competitors
Table 82. NXP Semiconductors Major Business
Table 83. NXP Semiconductors Silicon Thermistor Product and Services
Table 84. NXP Semiconductors Silicon Thermistor Production (K Units), Price (US$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 85. NXP Semiconductors Recent Developments/Updates
Table 86. NXP Semiconductors Competitive Strengths & Weaknesses
Table 87. AMWEI Thermistor Sensor Basic Information, Manufacturing Base and Competitors
Table 88. AMWEI Thermistor Sensor Major Business
Table 89. AMWEI Thermistor Sensor Silicon Thermistor Product and Services
Table 90. AMWEI Thermistor Sensor Silicon Thermistor Production (K Units), Price (US$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 91. AMWEI Thermistor Sensor Recent Developments/Updates

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Table 92. AMWEI Thermistor Sensor Competitive Strengths & Weaknesses
Table 93. FocuSens Basic Information, Manufacturing Base and Competitors
Table 94. FocuSens Major Business
Table 95. FocuSens Silicon Thermistor Product and Services
Table 96. FocuSens Silicon Thermistor Production (K Units), Price (US$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 97. FocuSens Recent Developments/Updates
Table 98. FocuSens Competitive Strengths & Weaknesses
Table 99. Dongguan Ampfort Electronics Co., Ltd. Basic Information, Manufacturing Base and Competitors
Table 100. Dongguan Ampfort Electronics Co., Ltd. Major Business
Table 101. Dongguan Ampfort Electronics Co., Ltd. Silicon Thermistor Product and Services
Table 102. Dongguan Ampfort Electronics Co., Ltd. Silicon Thermistor Production (K Units), Price (US$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 103. Dongguan Ampfort Electronics Co., Ltd. Recent Developments/Updates
Table 104. Dongguan Ampfort Electronics Co., Ltd. Competitive Strengths & Weaknesses
Table 105. Global Key Players of Silicon Thermistor Upstream (Raw Materials)
Table 106. Global Silicon Thermistor Typical Customers
Table 107. Silicon Thermistor Typical Distributors

+357 96 030922
info@marketpublishers.com

List Of Figures

LIST OF FIGURES

Figure 1. Silicon Thermistor Picture
Figure 2. World Silicon Thermistor Production Value: 2021 & 2025 & 2032, (USD Million)
Figure 3. World Silicon Thermistor Production Value and Forecast (2021-2032) & (USD Million)
Figure 4. World Silicon Thermistor Production (2021-2032) & (K Units)
Figure 5. World Silicon Thermistor Average Price (2021-2032) & (US$/Unit)
Figure 6. World Silicon Thermistor Production Value Market Share by Region (2021-2032)
Figure 7. World Silicon Thermistor Production Market Share by Region (2021-2032)
Figure 8. North America Silicon Thermistor Production (2021-2032) & (K Units)
Figure 9. Europe Silicon Thermistor Production (2021-2032) & (K Units)
Figure 10. China Silicon Thermistor Production (2021-2032) & (K Units)
Figure 11. Japan Silicon Thermistor Production (2021-2032) & (K Units)
Figure 12. South Korea Silicon Thermistor Production (2021-2032) & (K Units)
Figure 13. Taiwan China Silicon Thermistor Production (2021-2032) & (K Units)
Figure 14. Silicon Thermistor Market Drivers
Figure 15. Factors Affecting Demand
Figure 16. World Silicon Thermistor Consumption (2021-2032) & (K Units)
Figure 17. World Silicon Thermistor Consumption Market Share by Region (2021-2032)
Figure 18. United States Silicon Thermistor Consumption (2021-2032) & (K Units)
Figure 19. China Silicon Thermistor Consumption (2021-2032) & (K Units)
Figure 20. Europe Silicon Thermistor Consumption (2021-2032) & (K Units)
Figure 21. Japan Silicon Thermistor Consumption (2021-2032) & (K Units)
Figure 22. South Korea Silicon Thermistor Consumption (2021-2032) & (K Units)
Figure 23. ASEAN Silicon Thermistor Consumption (2021-2032) & (K Units)
Figure 24. India Silicon Thermistor Consumption (2021-2032) & (K Units)
Figure 25. Producer Shipments of Silicon Thermistor by Manufacturer Revenue ($MM) and Market Share (%): 2025
Figure 26. Global Four-firm Concentration Ratios (CR4) for Silicon Thermistor Markets in 2025
Figure 27. Global Four-firm Concentration Ratios (CR8) for Silicon Thermistor Markets in 2025
Figure 28. United States VS China: Silicon Thermistor Production Value Market Share Comparison (2021 & 2025 & 2032)

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Figure 29. United States VS China: Silicon Thermistor Production Market Share Comparison (2021 & 2025 & 2032)
Figure 30. United States VS China: Silicon Thermistor Consumption Market Share Comparison (2021 & 2025 & 2032)
Figure 31. United States Based Manufacturers Silicon Thermistor Production Market Share 2025
Figure 32. China Based Manufacturers Silicon Thermistor Production Market Share 2025
Figure 33. Rest of World Based Manufacturers Silicon Thermistor Production Market Share 2025
Figure 34. World Silicon Thermistor Production Value by Temperature Range, (USD Million), 2021 & 2025 & 2032
Figure 35. World Silicon Thermistor Production Value Market Share by Temperature Range in 2025
Figure 36. Standard Temperature Range
Figure 37. Wide Temperature Range
Figure 38. High Temperature Range
Figure 39. Low Temperature Range
Figure 40. World Silicon Thermistor Production Market Share by Temperature Range (2021-2032)
Figure 41. World Silicon Thermistor Production Value Market Share by Temperature Range (2021-2032)
Figure 42. World Silicon Thermistor Average Price by Temperature Range (2021-2032) & (US$/Unit)
Figure 43. World Silicon Thermistor Production Value by Temperature Coefficient, (USD Million), 2021 & 2025 & 2032
Figure 44. World Silicon Thermistor Production Value Market Share by Temperature Coefficient in 2025
Figure 45. Silicon PTC Thermistor
Figure 46. Silicon NTC-like Temperature Sensor
Figure 47. World Silicon Thermistor Production Market Share by Temperature Coefficient (2021-2032)
Figure 48. World Silicon Thermistor Production Value Market Share by Temperature Coefficient (2021-2032)
Figure 49. World Silicon Thermistor Average Price by Temperature Coefficient (2021-2032) & (US$/Unit)
Figure 50. World Silicon Thermistor Production Value by Resistance Value, (USD Million), 2021 & 2025 & 2032
Figure 51. World Silicon Thermistor Production Value Market Share by Resistance

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Value in 2025
Figure 52. Low Resistance
Figure 53. Medium Resistance
Figure 54. High Resistance
Figure 55. World Silicon Thermistor Production Market Share by Resistance Value (2021-2032)
Figure 56. World Silicon Thermistor Production Value Market Share by Resistance Value (2021-2032)
Figure 57. World Silicon Thermistor Average Price by Resistance Value (2021-2032) & (US$/Unit)
Figure 58. World Silicon Thermistor Production Value by Application, (USD Million), 2021 & 2025 & 2032
Figure 59. World Silicon Thermistor Production Value Market Share by Application in 2025
Figure 60. Consumer Electronics
Figure 61. Energy & Battery
Figure 62. Automobile
Figure 63. Home Appliances
Figure 64. Industrial Equipment
Figure 65. Telecom & Data Center
Figure 66. World Silicon Thermistor Production Market Share by Application (2021-2032)
Figure 67. World Silicon Thermistor Production Value Market Share by Application (2021-2032)
Figure 68. World Silicon Thermistor Average Price by Application (2021-2032) & (US$/Unit)
Figure 69. Silicon Thermistor Industry Chain
Figure 70. Silicon Thermistor Procurement Model
Figure 71. Silicon Thermistor Sales Model
Figure 72. Silicon Thermistor Sales Channels, Direct Sales, and Distribution
Figure 73. Methodology
Figure 74. Research Process and Data Source

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