

Global Thermostatic Bimetal Parts Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Thermostatic Bimetal Parts market size is expected to reach \$ 889 million by 2032, rising at a market growth of 5.8% CAGR during the forecast period (2026-2032).

Thermostatic Bimetal Parts are temperature-responsive functional components manufactured from thermostatic bimetal strip or sheet through stamping, forming, coiling, pre-stressing, thermal calibration, and selected assembly processes. Common product forms include discs, spiral elements, helical springs, flat blades, U-shaped members, and other customized actuation parts. Their core value lies in converting the differential thermal expansion characteristics of thermostatic bimetal materials into repeatable and pre-set mechanical displacement or snap action, which makes them widely used in thermostats, thermal protectors, circuit breakers, relays, motor overheat protection devices, household appliance temperature-control assemblies, automotive thermal management systems, and industrial control equipment. Upstream inputs mainly include thermostatic bimetal strip and sheet, selected pre-soldered materials, stamping dies, surface-treatment chemicals, heat-treatment auxiliaries, and assembly components such as contacts and connectors. Downstream customers are primarily manufacturers of thermostats, thermal relays, circuit breakers, small-appliance safety protection devices, automotive electronic thermal management parts, and industrial temperature-control components. On an ex-factory price basis, global production capacity of thermostatic bimetal parts is estimated at about 4.80 billion pieces in 2025, with market sales of around 3.62 billion pieces, an average selling price of about USD 0.16 per piece, and industry gross margins generally in the range of 20%-32%.

The thermostatic bimetal parts market is currently in a stage where mature applications continue to expand while product structure keeps moving upward in value. Its demand base remains relatively solid, supported by long-term use in household appliances,

electrical protection devices, industrial controls, automotive thermal management, HVAC systems, and selected instrumentation applications. Compared with thermostatic bimetal strip and sheet, thermostatic bimetal parts are positioned closer to downstream devices, and their performance depends not only on the underlying material but also on stamping, forming, thermal calibration, stress control, assembly compatibility, and actuation consistency. As a result, competition in this market has shifted away from simple raw-material processing capability toward part design, actuation precision control, lot-to-lot consistency, automation level, and collaborative development capability with customers. In safety-critical and high-reliability applications in particular, downstream customers usually impose much stricter requirements on component stability than on ordinary material procurement, which gives the market stronger technical barriers and customer stickiness. Looking ahead, the industry is expected to continue evolving toward higher consistency, miniaturization, integration, longer service life, and stronger customization. As end-use equipment moves toward more compact structures, higher safety requirements, and lower energy consumption, downstream customers will continue to demand tighter control over actuation temperature, response stability, repeat-cycle life, and environmental adaptability. Traditional applications such as appliance temperature control, thermal protectors, circuit breakers, and relays will remain the fundamental demand base, while upgrades in automotive electronic thermal management, motor protection, HVAC energy-saving controls, and selected industrial automation devices are likely to support further demand for higher-performance parts. At the same time, the market is showing increasing interest in integrated miniature components, composite structural parts, and standardized designs that are better suited for automated assembly, which will push manufacturers to improve key capabilities in stamping, forming, thermal calibration, and in-line inspection. The main drivers of the market come from the long-term need across end-use sectors to balance safety, energy efficiency, reliability, and cost effectiveness. In a large number of temperature-control and protection devices, thermostatic bimetal parts perform the direct actuation and response function, meaning that their reliability has a direct impact on equipment safety and service life. For this reason, downstream customers usually place greater importance on component-level quality than on simple low-cost sourcing. For companies with stable material supply, mature forming processes, strong actuation-curve control, and automated production capability, the industry still offers attractive value-added opportunities and strong customer retention. In addition, different applications place very different requirements on discs, spiral elements, flat springs, and customized actuation parts in terms of thickness, curvature, actuation temperature, fatigue behavior, and assembly method. This makes segmented product development and customized supporting capability an important tool for expanding market share. As supply-chain localization and customer demand for rapid

delivery continue to strengthen, companies with regional service and technical-support capability are likely to gain competitive advantages. The market also faces several identifiable constraints. First, fluctuations in upstream thermostatic bimetal materials, copper-nickel alloys, iron-nickel alloys, and related auxiliaries can directly affect component manufacturing costs and profitability, while downstream customers, especially in appliances and electrical applications, often maintain strong cost-reduction pressure, making price pass-through difficult. Second, although thermostatic bimetal parts are mature products, it is not easy to achieve stable actuation temperature, consistent stress control, long-term cycling reliability, and low defect rates in mass production. This is particularly true in miniaturized and high-precision applications, where tooling, heat treatment, calibration, and inspection requirements become more demanding. Third, some high-end applications are gradually adopting electronic sensing, digital control, or solid-state protection solutions, creating substitution pressure for traditional electromechanical actuation parts in selected segments. In addition, long customer qualification cycles, high failure-risk sensitivity, fluctuations in end-market demand, and changes in international trade and manufacturing footprints can all constrain investment pace and profitability. In the future, the market is more likely to show intensifying competition in lower-end standard parts, while concentration continues to rise in higher-reliability, higher-consistency, and more customized component categories.

This report studies the global Thermostatic Bimetal Parts production, demand, key manufacturers, and key regions.

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

Highlights and key features of the study

Global Thermostatic Bimetal Parts total production and demand, 2021-2032, (Million Units)

Global Thermostatic Bimetal Parts total production value, 2021-2032, (USD Million)

Global Thermostatic Bimetal Parts production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Million Units), (based on production site)

Global Thermostatic Bimetal Parts consumption by region & country, CAGR, 2021-2032 & (Million Units)

U.S. VS China: Thermostatic Bimetal Parts domestic production, consumption, key

domestic manufacturers and share

Global Thermostatic Bimetal Parts production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Million Units)

Global Thermostatic Bimetal Parts production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Million Units)

Global Thermostatic Bimetal Parts production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Million Units)

This report profiles key players in the global Thermostatic Bimetal Parts 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 Wicked Group, Aperam, Foshan Tongbao Electrical Precision Alloy, SUMSION, Proterial Metals, Shivalik Bimetal Controls, Wenzhou Hongfeng Electrical Alloy, Zhejiang Tiansheng Bimetal Technology, Wenzhou Yada Bimetal, Telcon Bimetals, 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 Thermostatic Bimetal Parts market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (Million 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 Thermostatic Bimetal Parts Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Thermostatic Bimetal Parts Market, Segmentation by Type:

Manganese-based

Nickel-based

Copper-based

Composite Reinforced

Global Thermostatic Bimetal Parts Market, Segmentation by Temperature:

High Temperature

Medium Temperature

Low Temperature

Global Thermostatic Bimetal Parts Market, Segmentation by Resistance:

Low Resistance Series

Medium Resistance Series

High Resistance Series

Global Thermostatic Bimetal Parts Market, Segmentation by Application:

Home Appliances

Automotive and Transportation

Industrial Control & Instrumentation

Aerospace

Energy and Power

Other

Companies Profiled:

Wickeder Group

Aperam

Foshan Tongbao Electrical Precision Alloy

SUMSION

Proterial Metals

Shivalik Bimetal Controls

Wenzhou Hongfeng Electrical Alloy

Zhejiang Tiansheng Bimetal Technology

Wenzhou Yada Bimetal

Telcon Bimetals

Key Questions Answered:

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

Contents

1 SUPPLY SUMMARY

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

2 DEMAND SUMMARY

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

3 WORLD MANUFACTURERS COMPETITIVE ANALYSIS

- 3.1 World Thermostatic Bimetal Parts Production Value by Manufacturer (2021-2026)

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

4.4.2 United States Based Manufacturers Thermostatic Bimetal Parts Production Value (2021-2026)

4.4.3 United States Based Manufacturers Thermostatic Bimetal Parts Production (2021-2026)

4.5 China Based Thermostatic Bimetal Parts Manufacturers and Market Share

4.5.1 China Based Thermostatic Bimetal Parts Manufacturers, Headquarters and Production Site (Province, Country)

4.5.2 China Based Manufacturers Thermostatic Bimetal Parts Production Value (2021-2026)

4.5.3 China Based Manufacturers Thermostatic Bimetal Parts Production (2021-2026)

4.6 Rest of World Based Thermostatic Bimetal Parts Manufacturers and Market Share, 2021-2026

4.6.1 Rest of World Based Thermostatic Bimetal Parts Manufacturers, Headquarters and Production Site (State, Country)

4.6.2 Rest of World Based Manufacturers Thermostatic Bimetal Parts Production Value (2021-2026)

4.6.3 Rest of World Based Manufacturers Thermostatic Bimetal Parts Production (2021-2026)

5 MARKET ANALYSIS BY TYPE

5.1 World Thermostatic Bimetal Parts Market Size Overview by Type: 2021 VS 2025 VS 2032

5.2 Segment Introduction by Type

5.2.1 Manganese-based

5.2.2 Nickel-based

5.2.3 Copper-based

5.2.4 Composite Reinforced

5.3 Market Segment by Type

5.3.1 World Thermostatic Bimetal Parts Production by Type (2021-2032)

5.3.2 World Thermostatic Bimetal Parts Production Value by Type (2021-2032)

5.3.3 World Thermostatic Bimetal Parts Average Price by Type (2021-2032)

6 MARKET ANALYSIS BY TEMPERATURE

6.1 World Thermostatic Bimetal Parts Market Size Overview by Temperature: 2021 VS 2025 VS 2032

6.2 Segment Introduction by Temperature

6.2.1 High Temperature

6.2.2 Medium Temperature

6.2.3 Low Temperature

6.3 Market Segment by Temperature

6.3.1 World Thermostatic Bimetal Parts Production by Temperature (2021-2032)

6.3.2 World Thermostatic Bimetal Parts Production Value by Temperature (2021-2032)

6.3.3 World Thermostatic Bimetal Parts Average Price by Temperature (2021-2032)

7 MARKET ANALYSIS BY RESISTANCE

7.1 World Thermostatic Bimetal Parts Market Size Overview by Resistance: 2021 VS 2025 VS 2032

7.2 Segment Introduction by Resistance

7.2.1 Low Resistance Series

7.2.2 Medium Resistance Series

7.2.3 High Resistance Series

7.3 Market Segment by Resistance

7.3.1 World Thermostatic Bimetal Parts Production by Resistance (2021-2032)

7.3.2 World Thermostatic Bimetal Parts Production Value by Resistance (2021-2032)

7.3.3 World Thermostatic Bimetal Parts Average Price by Resistance (2021-2032)

8 MARKET ANALYSIS BY APPLICATION

8.1 World Thermostatic Bimetal Parts Market Size Overview by Application: 2021 VS 2025 VS 2032

8.2 Segment Introduction by Application

8.2.1 Home Appliances

8.2.2 Automotive and Transportation

8.2.3 Industrial Control & Instrumentation

8.2.4 Aerospace

8.2.5 Energy and Power

8.2.6 Other

8.3 Market Segment by Application

8.3.1 World Thermostatic Bimetal Parts Production by Application (2021-2032)

8.3.2 World Thermostatic Bimetal Parts Production Value by Application (2021-2032)

8.3.3 World Thermostatic Bimetal Parts Average Price by Application (2021-2032)

9 COMPANY PROFILES

9.1 Wicked Group

- 9.1.1 Wickedder Group Details
- 9.1.2 Wickedder Group Major Business
- 9.1.3 Wickedder Group Thermostatic Bimetal Parts Product and Services
- 9.1.4 Wickedder Group Thermostatic Bimetal Parts Production, Price, Value, Gross Margin and Market Share (2021-2026)
- 9.1.5 Wickedder Group Recent Developments/Updates
- 9.1.6 Wickedder Group Competitive Strengths & Weaknesses
- 9.2 Aperam
 - 9.2.1 Aperam Details
 - 9.2.2 Aperam Major Business
 - 9.2.3 Aperam Thermostatic Bimetal Parts Product and Services
 - 9.2.4 Aperam Thermostatic Bimetal Parts Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.2.5 Aperam Recent Developments/Updates
 - 9.2.6 Aperam Competitive Strengths & Weaknesses
- 9.3 Foshan Tongbao Electrical Precision Alloy
 - 9.3.1 Foshan Tongbao Electrical Precision Alloy Details
 - 9.3.2 Foshan Tongbao Electrical Precision Alloy Major Business
 - 9.3.3 Foshan Tongbao Electrical Precision Alloy Thermostatic Bimetal Parts Product and Services
 - 9.3.4 Foshan Tongbao Electrical Precision Alloy Thermostatic Bimetal Parts Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.3.5 Foshan Tongbao Electrical Precision Alloy Recent Developments/Updates
 - 9.3.6 Foshan Tongbao Electrical Precision Alloy Competitive Strengths & Weaknesses
- 9.4 SUMSION
 - 9.4.1 SUMSION Details
 - 9.4.2 SUMSION Major Business
 - 9.4.3 SUMSION Thermostatic Bimetal Parts Product and Services
 - 9.4.4 SUMSION Thermostatic Bimetal Parts Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.4.5 SUMSION Recent Developments/Updates
 - 9.4.6 SUMSION Competitive Strengths & Weaknesses
- 9.5 Proterial Metals
 - 9.5.1 Proterial Metals Details
 - 9.5.2 Proterial Metals Major Business
 - 9.5.3 Proterial Metals Thermostatic Bimetal Parts Product and Services
 - 9.5.4 Proterial Metals Thermostatic Bimetal Parts Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.5.5 Proterial Metals Recent Developments/Updates

- 9.5.6 Proterial Metals Competitive Strengths & Weaknesses
- 9.6 Shivalik Bimetal Controls
 - 9.6.1 Shivalik Bimetal Controls Details
 - 9.6.2 Shivalik Bimetal Controls Major Business
 - 9.6.3 Shivalik Bimetal Controls Thermostatic Bimetal Parts Product and Services
 - 9.6.4 Shivalik Bimetal Controls Thermostatic Bimetal Parts Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.6.5 Shivalik Bimetal Controls Recent Developments/Updates
 - 9.6.6 Shivalik Bimetal Controls Competitive Strengths & Weaknesses
- 9.7 Wenzhou Hongfeng Electrical Alloy
 - 9.7.1 Wenzhou Hongfeng Electrical Alloy Details
 - 9.7.2 Wenzhou Hongfeng Electrical Alloy Major Business
 - 9.7.3 Wenzhou Hongfeng Electrical Alloy Thermostatic Bimetal Parts Product and Services
 - 9.7.4 Wenzhou Hongfeng Electrical Alloy Thermostatic Bimetal Parts Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.7.5 Wenzhou Hongfeng Electrical Alloy Recent Developments/Updates
 - 9.7.6 Wenzhou Hongfeng Electrical Alloy Competitive Strengths & Weaknesses
- 9.8 Zhejiang Tiansheng Bimetal Technology
 - 9.8.1 Zhejiang Tiansheng Bimetal Technology Details
 - 9.8.2 Zhejiang Tiansheng Bimetal Technology Major Business
 - 9.8.3 Zhejiang Tiansheng Bimetal Technology Thermostatic Bimetal Parts Product and Services
 - 9.8.4 Zhejiang Tiansheng Bimetal Technology Thermostatic Bimetal Parts Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.8.5 Zhejiang Tiansheng Bimetal Technology Recent Developments/Updates
 - 9.8.6 Zhejiang Tiansheng Bimetal Technology Competitive Strengths & Weaknesses
- 9.9 Wenzhou Yada Bimetal
 - 9.9.1 Wenzhou Yada Bimetal Details
 - 9.9.2 Wenzhou Yada Bimetal Major Business
 - 9.9.3 Wenzhou Yada Bimetal Thermostatic Bimetal Parts Product and Services
 - 9.9.4 Wenzhou Yada Bimetal Thermostatic Bimetal Parts Production, Price, Value, Gross Margin and Market Share (2021-2026)
 - 9.9.5 Wenzhou Yada Bimetal Recent Developments/Updates
 - 9.9.6 Wenzhou Yada Bimetal Competitive Strengths & Weaknesses
- 9.10 Telcon Bimetals
 - 9.10.1 Telcon Bimetals Details
 - 9.10.2 Telcon Bimetals Major Business
 - 9.10.3 Telcon Bimetals Thermostatic Bimetal Parts Product and Services

9.10.4 Telcon Bimetals Thermostatic Bimetal Parts Production, Price, Value, Gross Margin and Market Share (2021-2026)

9.10.5 Telcon Bimetals Recent Developments/Updates

9.10.6 Telcon Bimetals Competitive Strengths & Weaknesses

10 INDUSTRY CHAIN ANALYSIS

10.1 Thermostatic Bimetal Parts Industry Chain

10.2 Thermostatic Bimetal Parts Upstream Analysis

10.2.1 Thermostatic Bimetal Parts Core Raw Materials

10.2.2 Main Manufacturers of Thermostatic Bimetal Parts Core Raw Materials

10.3 Midstream Analysis

10.4 Downstream Analysis

10.5 Thermostatic Bimetal Parts Production Mode

10.6 Thermostatic Bimetal Parts Procurement Model

10.7 Thermostatic Bimetal Parts Industry Sales Model and Sales Channels

10.7.1 Thermostatic Bimetal Parts Sales Model

10.7.2 Thermostatic Bimetal Parts 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 Thermostatic Bimetal Parts Production Value by Region (2021, 2025 and 2032) & (USD Million)

Table 2. World Thermostatic Bimetal Parts Production Value by Region (2021-2026) & (USD Million)

Table 3. World Thermostatic Bimetal Parts Production Value by Region (2027-2032) & (USD Million)

Table 4. World Thermostatic Bimetal Parts Production Value Market Share by Region (2021-2026)

Table 5. World Thermostatic Bimetal Parts Production Value Market Share by Region (2027-2032)

Table 6. World Thermostatic Bimetal Parts Production by Region (2021-2026) & (Million Units)

Table 7. World Thermostatic Bimetal Parts Production by Region (2027-2032) & (Million Units)

Table 8. World Thermostatic Bimetal Parts Production Market Share by Region (2021-2026)

Table 9. World Thermostatic Bimetal Parts Production Market Share by Region (2027-2032)

Table 10. World Thermostatic Bimetal Parts Average Price by Region (2021-2026) & (US\$/Unit)

Table 11. World Thermostatic Bimetal Parts Average Price by Region (2027-2032) & (US\$/Unit)

Table 12. Thermostatic Bimetal Parts Major Market Trends

Table 13. World Thermostatic Bimetal Parts Consumption Growth Rate Forecast by Region (2021 & 2025 & 2032) & (Million Units)

Table 14. World Thermostatic Bimetal Parts Consumption by Region (2021-2026) & (Million Units)

Table 15. World Thermostatic Bimetal Parts Consumption Forecast by Region (2027-2032) & (Million Units)

Table 16. World Thermostatic Bimetal Parts Production Value by Manufacturer (2021-2026) & (USD Million)

Table 17. Production Value Market Share of Key Thermostatic Bimetal Parts Producers in 2025

Table 18. World Thermostatic Bimetal Parts Production by Manufacturer (2021-2026) & (Million Units)

Table 19. Production Market Share of Key Thermostatic Bimetal Parts Producers in 2025

Table 20. World Thermostatic Bimetal Parts Average Price by Manufacturer (2021-2026) & (US\$/Unit)

Table 21. Global Thermostatic Bimetal Parts Company Evaluation Quadrant

Table 22. World Thermostatic Bimetal Parts Industry Rank of Major Manufacturers, Based on Production Value in 2025

Table 23. Head Office and Thermostatic Bimetal Parts Production Site of Key Manufacturer

Table 24. Thermostatic Bimetal Parts Market: Company Product Type Footprint

Table 25. Thermostatic Bimetal Parts Market: Company Product Application Footprint

Table 26. Thermostatic Bimetal Parts Competitive Factors

Table 27. Thermostatic Bimetal Parts New Entrant and Capacity Expansion Plans

Table 28. Thermostatic Bimetal Parts Mergers & Acquisitions Activity

Table 29. United States VS China Thermostatic Bimetal Parts Production Value Comparison, (2021 & 2025 & 2032) & (USD Million)

Table 30. United States VS China Thermostatic Bimetal Parts Production Comparison, (2021 & 2025 & 2032) & (Million Units)

Table 31. United States VS China Thermostatic Bimetal Parts Consumption Comparison, (2021 & 2025 & 2032) & (Million Units)

Table 32. United States Based Thermostatic Bimetal Parts Manufacturers, Headquarters and Production Site (States, Country)

Table 33. United States Based Manufacturers Thermostatic Bimetal Parts Production Value, (2021-2026) & (USD Million)

Table 34. United States Based Manufacturers Thermostatic Bimetal Parts Production Value Market Share (2021-2026)

Table 35. United States Based Manufacturers Thermostatic Bimetal Parts Production (2021-2026) & (Million Units)

Table 36. United States Based Manufacturers Thermostatic Bimetal Parts Production Market Share (2021-2026)

Table 37. China Based Thermostatic Bimetal Parts Manufacturers, Headquarters and Production Site (Province, Country)

Table 38. China Based Manufacturers Thermostatic Bimetal Parts Production Value, (2021-2026) & (USD Million)

Table 39. China Based Manufacturers Thermostatic Bimetal Parts Production Value Market Share (2021-2026)

Table 40. China Based Manufacturers Thermostatic Bimetal Parts Production, (2021-2026) & (Million Units)

Table 41. China Based Manufacturers Thermostatic Bimetal Parts Production Market

Share (2021-2026)

Table 42. Rest of World Based Thermostatic Bimetal Parts Manufacturers, Headquarters and Production Site (State, Country)

Table 43. Rest of World Based Manufacturers Thermostatic Bimetal Parts Production Value, (2021-2026) & (USD Million)

Table 44. Rest of World Based Manufacturers Thermostatic Bimetal Parts Production Value Market Share (2021-2026)

Table 45. Rest of World Based Manufacturers Thermostatic Bimetal Parts Production, (2021-2026) & (Million Units)

Table 46. Rest of World Based Manufacturers Thermostatic Bimetal Parts Production Market Share (2021-2026)

Table 47. World Thermostatic Bimetal Parts Production Value by Type, (USD Million), 2021 & 2025 & 2032

Table 48. World Thermostatic Bimetal Parts Production by Type (2021-2026) & (Million Units)

Table 49. World Thermostatic Bimetal Parts Production by Type (2027-2032) & (Million Units)

Table 50. World Thermostatic Bimetal Parts Production Value by Type (2021-2026) & (USD Million)

Table 51. World Thermostatic Bimetal Parts Production Value by Type (2027-2032) & (USD Million)

Table 52. World Thermostatic Bimetal Parts Average Price by Type (2021-2026) & (US\$/Unit)

Table 53. World Thermostatic Bimetal Parts Average Price by Type (2027-2032) & (US\$/Unit)

Table 54. World Thermostatic Bimetal Parts Production Value by Temperature, (USD Million), 2021 & 2025 & 2032

Table 55. World Thermostatic Bimetal Parts Production by Temperature (2021-2026) & (Million Units)

Table 56. World Thermostatic Bimetal Parts Production by Temperature (2027-2032) & (Million Units)

Table 57. World Thermostatic Bimetal Parts Production Value by Temperature (2021-2026) & (USD Million)

Table 58. World Thermostatic Bimetal Parts Production Value by Temperature (2027-2032) & (USD Million)

Table 59. World Thermostatic Bimetal Parts Average Price by Temperature (2021-2026) & (US\$/Unit)

Table 60. World Thermostatic Bimetal Parts Average Price by Temperature (2027-2032) & (US\$/Unit)

Table 61. World Thermostatic Bimetal Parts Production Value by Resistance, (USD Million), 2021 & 2025 & 2032

Table 62. World Thermostatic Bimetal Parts Production by Resistance (2021-2026) & (Million Units)

Table 63. World Thermostatic Bimetal Parts Production by Resistance (2027-2032) & (Million Units)

Table 64. World Thermostatic Bimetal Parts Production Value by Resistance (2021-2026) & (USD Million)

Table 65. World Thermostatic Bimetal Parts Production Value by Resistance (2027-2032) & (USD Million)

Table 66. World Thermostatic Bimetal Parts Average Price by Resistance (2021-2026) & (US\$/Unit)

Table 67. World Thermostatic Bimetal Parts Average Price by Resistance (2027-2032) & (US\$/Unit)

Table 68. World Thermostatic Bimetal Parts Production Value by Application, (USD Million), 2021 & 2025 & 2032

Table 69. World Thermostatic Bimetal Parts Production by Application (2021-2026) & (Million Units)

Table 70. World Thermostatic Bimetal Parts Production by Application (2027-2032) & (Million Units)

Table 71. World Thermostatic Bimetal Parts Production Value by Application (2021-2026) & (USD Million)

Table 72. World Thermostatic Bimetal Parts Production Value by Application (2027-2032) & (USD Million)

Table 73. World Thermostatic Bimetal Parts Average Price by Application (2021-2026) & (US\$/Unit)

Table 74. World Thermostatic Bimetal Parts Average Price by Application (2027-2032) & (US\$/Unit)

Table 75. Wicked Group Basic Information, Manufacturing Base and Competitors

Table 76. Wicked Group Major Business

Table 77. Wicked Group Thermostatic Bimetal Parts Product and Services

Table 78. Wicked Group Thermostatic Bimetal Parts Production (Million Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 79. Wicked Group Recent Developments/Updates

Table 80. Wicked Group Competitive Strengths & Weaknesses

Table 81. Aperam Basic Information, Manufacturing Base and Competitors

Table 82. Aperam Major Business

Table 83. Aperam Thermostatic Bimetal Parts Product and Services

Table 84. Aperam Thermostatic Bimetal Parts Production (Million Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 85. Aperam Recent Developments/Updates

Table 86. Aperam Competitive Strengths & Weaknesses

Table 87. Foshan Tongbao Electrical Precision Alloy Basic Information, Manufacturing Base and Competitors

Table 88. Foshan Tongbao Electrical Precision Alloy Major Business

Table 89. Foshan Tongbao Electrical Precision Alloy Thermostatic Bimetal Parts Product and Services

Table 90. Foshan Tongbao Electrical Precision Alloy Thermostatic Bimetal Parts Production (Million Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 91. Foshan Tongbao Electrical Precision Alloy Recent Developments/Updates

Table 92. Foshan Tongbao Electrical Precision Alloy Competitive Strengths & Weaknesses

Table 93. SUMSION Basic Information, Manufacturing Base and Competitors

Table 94. SUMSION Major Business

Table 95. SUMSION Thermostatic Bimetal Parts Product and Services

Table 96. SUMSION Thermostatic Bimetal Parts Production (Million Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 97. SUMSION Recent Developments/Updates

Table 98. SUMSION Competitive Strengths & Weaknesses

Table 99. Proterial Metals Basic Information, Manufacturing Base and Competitors

Table 100. Proterial Metals Major Business

Table 101. Proterial Metals Thermostatic Bimetal Parts Product and Services

Table 102. Proterial Metals Thermostatic Bimetal Parts Production (Million Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 103. Proterial Metals Recent Developments/Updates

Table 104. Proterial Metals Competitive Strengths & Weaknesses

Table 105. Shivalik Bimetal Controls Basic Information, Manufacturing Base and Competitors

Table 106. Shivalik Bimetal Controls Major Business

Table 107. Shivalik Bimetal Controls Thermostatic Bimetal Parts Product and Services

Table 108. Shivalik Bimetal Controls Thermostatic Bimetal Parts Production (Million Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

- Table 109. Shivalik Bimetal Controls Recent Developments/Updates
- Table 110. Shivalik Bimetal Controls Competitive Strengths & Weaknesses
- Table 111. Wenzhou Hongfeng Electrical Alloy Basic Information, Manufacturing Base and Competitors
- Table 112. Wenzhou Hongfeng Electrical Alloy Major Business
- Table 113. Wenzhou Hongfeng Electrical Alloy Thermostatic Bimetal Parts Product and Services
- Table 114. Wenzhou Hongfeng Electrical Alloy Thermostatic Bimetal Parts Production (Million Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 115. Wenzhou Hongfeng Electrical Alloy Recent Developments/Updates
- Table 116. Wenzhou Hongfeng Electrical Alloy Competitive Strengths & Weaknesses
- Table 117. Zhejiang Tiansheng Bimetal Technology Basic Information, Manufacturing Base and Competitors
- Table 118. Zhejiang Tiansheng Bimetal Technology Major Business
- Table 119. Zhejiang Tiansheng Bimetal Technology Thermostatic Bimetal Parts Product and Services
- Table 120. Zhejiang Tiansheng Bimetal Technology Thermostatic Bimetal Parts Production (Million Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 121. Zhejiang Tiansheng Bimetal Technology Recent Developments/Updates
- Table 122. Zhejiang Tiansheng Bimetal Technology Competitive Strengths & Weaknesses
- Table 123. Wenzhou Yada Bimetal Basic Information, Manufacturing Base and Competitors
- Table 124. Wenzhou Yada Bimetal Major Business
- Table 125. Wenzhou Yada Bimetal Thermostatic Bimetal Parts Product and Services
- Table 126. Wenzhou Yada Bimetal Thermostatic Bimetal Parts Production (Million Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 127. Wenzhou Yada Bimetal Recent Developments/Updates
- Table 128. Wenzhou Yada Bimetal Competitive Strengths & Weaknesses
- Table 129. Telcon Bimetals Basic Information, Manufacturing Base and Competitors
- Table 130. Telcon Bimetals Major Business
- Table 131. Telcon Bimetals Thermostatic Bimetal Parts Product and Services
- Table 132. Telcon Bimetals Thermostatic Bimetal Parts Production (Million Units), Price (US\$/Unit), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 133. Telcon Bimetals Recent Developments/Updates

Table 134. Telcon Bimetals Competitive Strengths & Weaknesses

Table 135. Global Key Players of Thermostatic Bimetal Parts Upstream (Raw Materials)

Table 136. Global Thermostatic Bimetal Parts Typical Customers

Table 137. Thermostatic Bimetal Parts Typical Distributors

List Of Figures

LIST OF FIGURES

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

Markets in 2025

Figure 25. Global Four-firm Concentration Ratios (CR8) for Thermostatic Bimetal Parts Markets in 2025

Figure 26. United States VS China: Thermostatic Bimetal Parts Production Value Market Share Comparison (2021 & 2025 & 2032)

Figure 27. United States VS China: Thermostatic Bimetal Parts Production Market Share Comparison (2021 & 2025 & 2032)

Figure 28. United States VS China: Thermostatic Bimetal Parts Consumption Market Share Comparison (2021 & 2025 & 2032)

Figure 29. United States Based Manufacturers Thermostatic Bimetal Parts Production Market Share 2025

Figure 30. China Based Manufacturers Thermostatic Bimetal Parts Production Market Share 2025

Figure 31. Rest of World Based Manufacturers Thermostatic Bimetal Parts Production Market Share 2025

Figure 32. World Thermostatic Bimetal Parts Production Value by Type, (USD Million), 2021 & 2025 & 2032

Figure 33. World Thermostatic Bimetal Parts Production Value Market Share by Type in 2025

Figure 34. Manganese-based

Figure 35. Nickel-based

Figure 36. Copper-based

Figure 37. Composite Reinforced

Figure 38. World Thermostatic Bimetal Parts Production Market Share by Type (2021-2032)

Figure 39. World Thermostatic Bimetal Parts Production Value Market Share by Type (2021-2032)

Figure 40. World Thermostatic Bimetal Parts Average Price by Type (2021-2032) & (US\$/Unit)

Figure 41. World Thermostatic Bimetal Parts Production Value by Temperature, (USD Million), 2021 & 2025 & 2032

Figure 42. World Thermostatic Bimetal Parts Production Value Market Share by Temperature in 2025

Figure 43. High Temperature

Figure 44. Medium Temperature

Figure 45. Low Temperature

Figure 46. World Thermostatic Bimetal Parts Production Market Share by Temperature (2021-2032)

Figure 47. World Thermostatic Bimetal Parts Production Value Market Share by

Temperature (2021-2032)

Figure 48. World Thermostatic Bimetal Parts Average Price by Temperature (2021-2032) & (US\$/Unit)

Figure 49. World Thermostatic Bimetal Parts Production Value by Resistance, (USD Million), 2021 & 2025 & 2032

Figure 50. World Thermostatic Bimetal Parts Production Value Market Share by Resistance in 2025

Figure 51. Low Resistance Series

Figure 52. Medium Resistance Series

Figure 53. High Resistance Series

Figure 54. World Thermostatic Bimetal Parts Production Market Share by Resistance (2021-2032)

Figure 55. World Thermostatic Bimetal Parts Production Value Market Share by Resistance (2021-2032)

Figure 56. World Thermostatic Bimetal Parts Average Price by Resistance (2021-2032) & (US\$/Unit)

Figure 57. World Thermostatic Bimetal Parts Production Value by Application, (USD Million), 2021 & 2025 & 2032

Figure 58. World Thermostatic Bimetal Parts Production Value Market Share by Application in 2025

Figure 59. Home Appliances

Figure 60. Automotive and Transportation

Figure 61. Industrial Control & Instrumentation

Figure 62. Aerospace

Figure 63. Energy and Power

Figure 64. Other

Figure 65. World Thermostatic Bimetal Parts Production Market Share by Application (2021-2032)

Figure 66. World Thermostatic Bimetal Parts Production Value Market Share by Application (2021-2032)

Figure 67. World Thermostatic Bimetal Parts Average Price by Application (2021-2032) & (US\$/Unit)

Figure 68. Thermostatic Bimetal Parts Industry Chain

Figure 69. Thermostatic Bimetal Parts Procurement Model

Figure 70. Thermostatic Bimetal Parts Sales Model

Figure 71. Thermostatic Bimetal Parts Sales Channels, Direct Sales, and Distribution

Figure 72. Methodology

Figure 73. Research Process and Data Source

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