

Global Silicone-based Thermal Paste Supply, Demand and Key Producers, 2023-2029

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Abstracts

The global Silicone-based Thermal Paste market size is expected to reach \$ 208.7 million by 2029, rising at a market growth of 4.7% CAGR during the forecast period (2023-2029).

The thermal conductor paste market has experienced steady growth over the years, driven by the increasing demand for electronic devices, including computers, smartphones, gaming consoles, and automotive electronics.

The trend toward miniaturization and higher power densities in electronic components has led to a greater need for effective thermal management solutions, including high-performance thermal pastes.

Emerging applications in electric vehicles (EVs), renewable energy systems, and data centers have contributed to market growth.

Major manufacturers in the thermal conductor paste market include companies like Henkel Corporation, Shin-Etsu Chemical Co., Ltd., Parker Hannifin, 3M and Dow, among others. Top five players occupied 34.23% global market share in 2022.

These companies often offer a range of thermal paste products designed for different applications, including consumer electronics and industrial equipment.

The demand for thermal conductor paste varies by region, with Asia-Pacific being a significant market due to its dominance in electronics manufacturing.

North America and Europe also have a substantial presence in the market, driven by

their automotive, aerospace, and industrial sectors.

Asia Pacific is the largest consumption area, making up 56.37% in 2022. North America ranks the second, total thermal conductor paste accounted for 19.54%. Europe accounted for 17.14% occupied the third place.

Silicone-based thermal conductor paste, often referred to as thermal grease, thermal compound, or thermal paste, is a material used in electronics and computer hardware to improve the thermal conductivity between a heat-generating component (such as a CPU or GPU) and a heatsink or heat spreader. Its primary purpose is to fill in microscopic air gaps and imperfections between the two surfaces, ensuring better heat transfer and thus improving cooling performance.

Composition: Silicone-based thermal conductor paste is typically composed of a silicone polymer matrix filled with thermally conductive particles, such as metal oxides (e.g., aluminum oxide or zinc oxide). The silicone matrix provides good adhesion and flexibility, while the conductive particles enhance thermal conductivity.

This report studies the global Silicone-based Thermal Paste production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Silicone-based Thermal Paste, and provides market size (US\$ million) and Year-over-Year (YoY) Growth, considering 2022 as the base year. This report explores demand trends and competition, as well as details the characteristics of Silicone-based Thermal Paste that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Silicone-based Thermal Paste total production and demand, 2018-2029, (Tons)

Global Silicone-based Thermal Paste total production value, 2018-2029, (USD Million)

Global Silicone-based Thermal Paste production by region & country, production, value, CAGR, 2018-2029, (USD Million) & (Tons)

Global Silicone-based Thermal Paste consumption by region & country, CAGR, 2018-2029 & (Tons)

U.S. VS China: Silicone-based Thermal Paste domestic production, consumption, key domestic manufacturers and share

Global Silicone-based Thermal Paste production by manufacturer, production, price, value and market share 2018-2023, (USD Million) & (Tons)

Global Silicone-based Thermal Paste production by Thermal Conductivity, production, value, CAGR, 2018-2029, (USD Million) & (Tons)

Global Silicone-based Thermal Paste production by Application production, value, CAGR, 2018-2029, (USD Million) & (Tons).

This reports profiles key players in the global Silicone-based Thermal Paste 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 Henkel, Shin-Etsu Chemical, Parker Hannifin, Dow, Cooler Master, CHT Group, Denka Company Limited, Momentive and RS Components, 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-based Thermal Paste market.

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (Tons) and average price (US\$/kg) by manufacturer, by Thermal Conductivity, and by Application. Data is given for the years 2018-2029 by year with 2022 as the base year, 2023 as the estimate year, and 2024-2029 as the forecast year.

Global Silicone-based Thermal Paste Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Silicone-based Thermal Paste Market, Segmentation by Thermal Conductivity

Below 2.5 W/mK

2.5 to 5 W/mK

Above 5 W/mK

Global Silicone-based Thermal Paste Market, Segmentation by Application

Automotive and Transportation

LED

Electronics and Home Appliances

Telecommunications

Others

Companies Profiled:

Henkel

Shin-Etsu Chemical

Parker Hannifin

Dow

Cooler Master

CHT Group

Denka Company Limited

Momentive

RS Components

OKS

MacDermid Alpha Electronics Solutions

Fujipoly

Wacker

Arctic

NTE Electronics

Boyd

Noctua

Key Questions Answered

1. How big is the global Silicone-based Thermal Paste market?
2. What is the demand of the global Silicone-based Thermal Paste market?

3. What is the year over year growth of the global Silicone-based Thermal Paste market?
4. What is the production and production value of the global Silicone-based Thermal Paste market?
5. Who are the key producers in the global Silicone-based Thermal Paste market?

Contents

1 SUPPLY SUMMARY

- 1.1 Silicone-based Thermal Paste Introduction
- 1.2 World Silicone-based Thermal Paste Supply & Forecast
 - 1.2.1 World Silicone-based Thermal Paste Production Value (2018 & 2022 & 2029)
 - 1.2.2 World Silicone-based Thermal Paste Production (2018-2029)
 - 1.2.3 World Silicone-based Thermal Paste Pricing Trends (2018-2029)
- 1.3 World Silicone-based Thermal Paste Production by Region (Based on Production Site)
 - 1.3.1 World Silicone-based Thermal Paste Production Value by Region (2018-2029)
 - 1.3.2 World Silicone-based Thermal Paste Production by Region (2018-2029)
 - 1.3.3 World Silicone-based Thermal Paste Average Price by Region (2018-2029)
 - 1.3.4 North America Silicone-based Thermal Paste Production (2018-2029)
 - 1.3.5 Europe Silicone-based Thermal Paste Production (2018-2029)
 - 1.3.6 China Silicone-based Thermal Paste Production (2018-2029)
 - 1.3.7 Japan Silicone-based Thermal Paste Production (2018-2029)
- 1.4 Market Drivers, Restraints and Trends
 - 1.4.1 Silicone-based Thermal Paste Market Drivers
 - 1.4.2 Factors Affecting Demand
 - 1.4.3 Silicone-based Thermal Paste Major Market Trends

2 DEMAND SUMMARY

- 2.1 World Silicone-based Thermal Paste Demand (2018-2029)
- 2.2 World Silicone-based Thermal Paste Consumption by Region
 - 2.2.1 World Silicone-based Thermal Paste Consumption by Region (2018-2023)
 - 2.2.2 World Silicone-based Thermal Paste Consumption Forecast by Region (2024-2029)
- 2.3 United States Silicone-based Thermal Paste Consumption (2018-2029)
- 2.4 China Silicone-based Thermal Paste Consumption (2018-2029)
- 2.5 Europe Silicone-based Thermal Paste Consumption (2018-2029)
- 2.6 Japan Silicone-based Thermal Paste Consumption (2018-2029)
- 2.7 South Korea Silicone-based Thermal Paste Consumption (2018-2029)
- 2.8 ASEAN Silicone-based Thermal Paste Consumption (2018-2029)
- 2.9 India Silicone-based Thermal Paste Consumption (2018-2029)

3 WORLD SILICONE-BASED THERMAL PASTE MANUFACTURERS COMPETITIVE

ANALYSIS

- 3.1 World Silicone-based Thermal Paste Production Value by Manufacturer (2018-2023)
- 3.2 World Silicone-based Thermal Paste Production by Manufacturer (2018-2023)
- 3.3 World Silicone-based Thermal Paste Average Price by Manufacturer (2018-2023)
- 3.4 Silicone-based Thermal Paste Company Evaluation Quadrant
- 3.5 Industry Rank and Concentration Rate (CR)
 - 3.5.1 Global Silicone-based Thermal Paste Industry Rank of Major Manufacturers
 - 3.5.2 Global Concentration Ratios (CR4) for Silicone-based Thermal Paste in 2022
 - 3.5.3 Global Concentration Ratios (CR8) for Silicone-based Thermal Paste in 2022
- 3.6 Silicone-based Thermal Paste Market: Overall Company Footprint Analysis
 - 3.6.1 Silicone-based Thermal Paste Market: Region Footprint
 - 3.6.2 Silicone-based Thermal Paste Market: Company Product Type Footprint
 - 3.6.3 Silicone-based Thermal Paste 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-based Thermal Paste Production Value Comparison
 - 4.1.1 United States VS China: Silicone-based Thermal Paste Production Value Comparison (2018 & 2022 & 2029)
 - 4.1.2 United States VS China: Silicone-based Thermal Paste Production Value Market Share Comparison (2018 & 2022 & 2029)
- 4.2 United States VS China: Silicone-based Thermal Paste Production Comparison
 - 4.2.1 United States VS China: Silicone-based Thermal Paste Production Comparison (2018 & 2022 & 2029)
 - 4.2.2 United States VS China: Silicone-based Thermal Paste Production Market Share Comparison (2018 & 2022 & 2029)
- 4.3 United States VS China: Silicone-based Thermal Paste Consumption Comparison
 - 4.3.1 United States VS China: Silicone-based Thermal Paste Consumption Comparison (2018 & 2022 & 2029)
 - 4.3.2 United States VS China: Silicone-based Thermal Paste Consumption Market

Share Comparison (2018 & 2022 & 2029)

4.4 United States Based Silicone-based Thermal Paste Manufacturers and Market Share, 2018-2023

4.4.1 United States Based Silicone-based Thermal Paste Manufacturers, Headquarters and Production Site (States, Country)

4.4.2 United States Based Manufacturers Silicone-based Thermal Paste Production Value (2018-2023)

4.4.3 United States Based Manufacturers Silicone-based Thermal Paste Production (2018-2023)

4.5 China Based Silicone-based Thermal Paste Manufacturers and Market Share

4.5.1 China Based Silicone-based Thermal Paste Manufacturers, Headquarters and Production Site (Province, Country)

4.5.2 China Based Manufacturers Silicone-based Thermal Paste Production Value (2018-2023)

4.5.3 China Based Manufacturers Silicone-based Thermal Paste Production (2018-2023)

4.6 Rest of World Based Silicone-based Thermal Paste Manufacturers and Market Share, 2018-2023

4.6.1 Rest of World Based Silicone-based Thermal Paste Manufacturers, Headquarters and Production Site (State, Country)

4.6.2 Rest of World Based Manufacturers Silicone-based Thermal Paste Production Value (2018-2023)

4.6.3 Rest of World Based Manufacturers Silicone-based Thermal Paste Production (2018-2023)

5 MARKET ANALYSIS BY THERMAL CONDUCTIVITY

5.1 World Silicone-based Thermal Paste Market Size Overview by Thermal Conductivity: 2018 VS 2022 VS 2029

5.2 Segment Introduction by Thermal Conductivity

5.2.1 Below 2.5 W/mK

5.2.2 2.5 to 5 W/mK

5.2.3 Above 5 W/mK

5.3 Market Segment by Thermal Conductivity

5.3.1 World Silicone-based Thermal Paste Production by Thermal Conductivity (2018-2029)

5.3.2 World Silicone-based Thermal Paste Production Value by Thermal Conductivity (2018-2029)

5.3.3 World Silicone-based Thermal Paste Average Price by Thermal Conductivity

(2018-2029)

6 MARKET ANALYSIS BY APPLICATION

6.1 World Silicone-based Thermal Paste Market Size Overview by Application: 2018 VS 2022 VS 2029

6.2 Segment Introduction by Application

6.2.1 Automotive and Transportation

6.2.2 LED

6.2.3 Electronics and Home Appliances

6.2.4 Telecommunications

6.2.5 Others

6.3 Market Segment by Application

6.3.1 World Silicone-based Thermal Paste Production by Application (2018-2029)

6.3.2 World Silicone-based Thermal Paste Production Value by Application (2018-2029)

6.3.3 World Silicone-based Thermal Paste Average Price by Application (2018-2029)

7 COMPANY PROFILES

7.1 Henkel

7.1.1 Henkel Details

7.1.2 Henkel Major Business

7.1.3 Henkel Silicone-based Thermal Paste Product and Services

7.1.4 Henkel Silicone-based Thermal Paste Production, Price, Value, Gross Margin and Market Share (2018-2023)

7.1.5 Henkel Recent Developments/Updates

7.1.6 Henkel Competitive Strengths & Weaknesses

7.2 Shin-Etsu Chemical

7.2.1 Shin-Etsu Chemical Details

7.2.2 Shin-Etsu Chemical Major Business

7.2.3 Shin-Etsu Chemical Silicone-based Thermal Paste Product and Services

7.2.4 Shin-Etsu Chemical Silicone-based Thermal Paste Production, Price, Value, Gross Margin and Market Share (2018-2023)

7.2.5 Shin-Etsu Chemical Recent Developments/Updates

7.2.6 Shin-Etsu Chemical Competitive Strengths & Weaknesses

7.3 Parker Hannifin

7.3.1 Parker Hannifin Details

7.3.2 Parker Hannifin Major Business

- 7.3.3 Parker Hannifin Silicone-based Thermal Paste Product and Services
- 7.3.4 Parker Hannifin Silicone-based Thermal Paste Production, Price, Value, Gross Margin and Market Share (2018-2023)
- 7.3.5 Parker Hannifin Recent Developments/Updates
- 7.3.6 Parker Hannifin Competitive Strengths & Weaknesses
- 7.4 Dow
 - 7.4.1 Dow Details
 - 7.4.2 Dow Major Business
 - 7.4.3 Dow Silicone-based Thermal Paste Product and Services
 - 7.4.4 Dow Silicone-based Thermal Paste Production, Price, Value, Gross Margin and Market Share (2018-2023)
 - 7.4.5 Dow Recent Developments/Updates
 - 7.4.6 Dow Competitive Strengths & Weaknesses
- 7.5 Cooler Master
 - 7.5.1 Cooler Master Details
 - 7.5.2 Cooler Master Major Business
 - 7.5.3 Cooler Master Silicone-based Thermal Paste Product and Services
 - 7.5.4 Cooler Master Silicone-based Thermal Paste Production, Price, Value, Gross Margin and Market Share (2018-2023)
 - 7.5.5 Cooler Master Recent Developments/Updates
 - 7.5.6 Cooler Master Competitive Strengths & Weaknesses
- 7.6 CHT Group
 - 7.6.1 CHT Group Details
 - 7.6.2 CHT Group Major Business
 - 7.6.3 CHT Group Silicone-based Thermal Paste Product and Services
 - 7.6.4 CHT Group Silicone-based Thermal Paste Production, Price, Value, Gross Margin and Market Share (2018-2023)
 - 7.6.5 CHT Group Recent Developments/Updates
 - 7.6.6 CHT Group Competitive Strengths & Weaknesses
- 7.7 Denka Company Limited
 - 7.7.1 Denka Company Limited Details
 - 7.7.2 Denka Company Limited Major Business
 - 7.7.3 Denka Company Limited Silicone-based Thermal Paste Product and Services
 - 7.7.4 Denka Company Limited Silicone-based Thermal Paste Production, Price, Value, Gross Margin and Market Share (2018-2023)
 - 7.7.5 Denka Company Limited Recent Developments/Updates
 - 7.7.6 Denka Company Limited Competitive Strengths & Weaknesses
- 7.8 Momentive
 - 7.8.1 Momentive Details

- 7.8.2 Momentive Major Business
- 7.8.3 Momentive Silicone-based Thermal Paste Product and Services
- 7.8.4 Momentive Silicone-based Thermal Paste Production, Price, Value, Gross Margin and Market Share (2018-2023)
- 7.8.5 Momentive Recent Developments/Updates
- 7.8.6 Momentive Competitive Strengths & Weaknesses
- 7.9 RS Components
 - 7.9.1 RS Components Details
 - 7.9.2 RS Components Major Business
 - 7.9.3 RS Components Silicone-based Thermal Paste Product and Services
 - 7.9.4 RS Components Silicone-based Thermal Paste Production, Price, Value, Gross Margin and Market Share (2018-2023)
 - 7.9.5 RS Components Recent Developments/Updates
 - 7.9.6 RS Components Competitive Strengths & Weaknesses
- 7.10 OKS
 - 7.10.1 OKS Details
 - 7.10.2 OKS Major Business
 - 7.10.3 OKS Silicone-based Thermal Paste Product and Services
 - 7.10.4 OKS Silicone-based Thermal Paste Production, Price, Value, Gross Margin and Market Share (2018-2023)
 - 7.10.5 OKS Recent Developments/Updates
 - 7.10.6 OKS Competitive Strengths & Weaknesses
- 7.11 MacDermid Alpha Electronics Solutions
 - 7.11.1 MacDermid Alpha Electronics Solutions Details
 - 7.11.2 MacDermid Alpha Electronics Solutions Major Business
 - 7.11.3 MacDermid Alpha Electronics Solutions Silicone-based Thermal Paste Product and Services
 - 7.11.4 MacDermid Alpha Electronics Solutions Silicone-based Thermal Paste Production, Price, Value, Gross Margin and Market Share (2018-2023)
 - 7.11.5 MacDermid Alpha Electronics Solutions Recent Developments/Updates
 - 7.11.6 MacDermid Alpha Electronics Solutions Competitive Strengths & Weaknesses
- 7.12 Fujipoly
 - 7.12.1 Fujipoly Details
 - 7.12.2 Fujipoly Major Business
 - 7.12.3 Fujipoly Silicone-based Thermal Paste Product and Services
 - 7.12.4 Fujipoly Silicone-based Thermal Paste Production, Price, Value, Gross Margin and Market Share (2018-2023)
 - 7.12.5 Fujipoly Recent Developments/Updates
 - 7.12.6 Fujipoly Competitive Strengths & Weaknesses

7.13 Wacker

7.13.1 Wacker Details

7.13.2 Wacker Major Business

7.13.3 Wacker Silicone-based Thermal Paste Product and Services

7.13.4 Wacker Silicone-based Thermal Paste Production, Price, Value, Gross Margin and Market Share (2018-2023)

7.13.5 Wacker Recent Developments/Updates

7.13.6 Wacker Competitive Strengths & Weaknesses

7.14 Arctic

7.14.1 Arctic Details

7.14.2 Arctic Major Business

7.14.3 Arctic Silicone-based Thermal Paste Product and Services

7.14.4 Arctic Silicone-based Thermal Paste Production, Price, Value, Gross Margin and Market Share (2018-2023)

7.14.5 Arctic Recent Developments/Updates

7.14.6 Arctic Competitive Strengths & Weaknesses

7.15 NTE Electronics

7.15.1 NTE Electronics Details

7.15.2 NTE Electronics Major Business

7.15.3 NTE Electronics Silicone-based Thermal Paste Product and Services

7.15.4 NTE Electronics Silicone-based Thermal Paste Production, Price, Value, Gross Margin and Market Share (2018-2023)

7.15.5 NTE Electronics Recent Developments/Updates

7.15.6 NTE Electronics Competitive Strengths & Weaknesses

7.16 Boyd

7.16.1 Boyd Details

7.16.2 Boyd Major Business

7.16.3 Boyd Silicone-based Thermal Paste Product and Services

7.16.4 Boyd Silicone-based Thermal Paste Production, Price, Value, Gross Margin and Market Share (2018-2023)

7.16.5 Boyd Recent Developments/Updates

7.16.6 Boyd Competitive Strengths & Weaknesses

7.17 Noctua

7.17.1 Noctua Details

7.17.2 Noctua Major Business

7.17.3 Noctua Silicone-based Thermal Paste Product and Services

7.17.4 Noctua Silicone-based Thermal Paste Production, Price, Value, Gross Margin and Market Share (2018-2023)

7.17.5 Noctua Recent Developments/Updates

7.17.6 Noctua Competitive Strengths & Weaknesses

8 INDUSTRY CHAIN ANALYSIS

8.1 Silicone-based Thermal Paste Industry Chain

8.2 Silicone-based Thermal Paste Upstream Analysis

8.2.1 Silicone-based Thermal Paste Core Raw Materials

8.2.2 Main Manufacturers of Silicone-based Thermal Paste Core Raw Materials

8.3 Midstream Analysis

8.4 Downstream Analysis

8.5 Silicone-based Thermal Paste Production Mode

8.6 Silicone-based Thermal Paste Procurement Model

8.7 Silicone-based Thermal Paste Industry Sales Model and Sales Channels

8.7.1 Silicone-based Thermal Paste Sales Model

8.7.2 Silicone-based Thermal Paste Typical Customers

9 RESEARCH FINDINGS AND CONCLUSION

10 APPENDIX

10.1 Methodology

10.2 Research Process and Data Source

10.3 Disclaimer

List Of Tables

LIST OF TABLES

Table 1. World Silicone-based Thermal Paste Production Value by Region (2018, 2022 and 2029) & (USD Million)

Table 2. World Silicone-based Thermal Paste Production Value by Region (2018-2023) & (USD Million)

Table 3. World Silicone-based Thermal Paste Production Value by Region (2024-2029) & (USD Million)

Table 4. World Silicone-based Thermal Paste Production Value Market Share by Region (2018-2023)

Table 5. World Silicone-based Thermal Paste Production Value Market Share by Region (2024-2029)

Table 6. World Silicone-based Thermal Paste Production by Region (2018-2023) & (Tons)

Table 7. World Silicone-based Thermal Paste Production by Region (2024-2029) & (Tons)

Table 8. World Silicone-based Thermal Paste Production Market Share by Region (2018-2023)

Table 9. World Silicone-based Thermal Paste Production Market Share by Region (2024-2029)

Table 10. World Silicone-based Thermal Paste Average Price by Region (2018-2023) & (US\$/kg)

Table 11. World Silicone-based Thermal Paste Average Price by Region (2024-2029) & (US\$/kg)

Table 12. Silicone-based Thermal Paste Major Market Trends

Table 13. World Silicone-based Thermal Paste Consumption Growth Rate Forecast by Region (2018 & 2022 & 2029) & (Tons)

Table 14. World Silicone-based Thermal Paste Consumption by Region (2018-2023) & (Tons)

Table 15. World Silicone-based Thermal Paste Consumption Forecast by Region (2024-2029) & (Tons)

Table 16. World Silicone-based Thermal Paste Production Value by Manufacturer (2018-2023) & (USD Million)

Table 17. Production Value Market Share of Key Silicone-based Thermal Paste Producers in 2022

Table 18. World Silicone-based Thermal Paste Production by Manufacturer (2018-2023) & (Tons)

Table 19. Production Market Share of Key Silicone-based Thermal Paste Producers in 2022

Table 20. World Silicone-based Thermal Paste Average Price by Manufacturer (2018-2023) & (US\$/kg)

Table 21. Global Silicone-based Thermal Paste Company Evaluation Quadrant

Table 22. World Silicone-based Thermal Paste Industry Rank of Major Manufacturers, Based on Production Value in 2022

Table 23. Head Office and Silicone-based Thermal Paste Production Site of Key Manufacturer

Table 24. Silicone-based Thermal Paste Market: Company Product Type Footprint

Table 25. Silicone-based Thermal Paste Market: Company Product Application Footprint

Table 26. Silicone-based Thermal Paste Competitive Factors

Table 27. Silicone-based Thermal Paste New Entrant and Capacity Expansion Plans

Table 28. Silicone-based Thermal Paste Mergers & Acquisitions Activity

Table 29. United States VS China Silicone-based Thermal Paste Production Value Comparison, (2018 & 2022 & 2029) & (USD Million)

Table 30. United States VS China Silicone-based Thermal Paste Production Comparison, (2018 & 2022 & 2029) & (Tons)

Table 31. United States VS China Silicone-based Thermal Paste Consumption Comparison, (2018 & 2022 & 2029) & (Tons)

Table 32. United States Based Silicone-based Thermal Paste Manufacturers, Headquarters and Production Site (States, Country)

Table 33. United States Based Manufacturers Silicone-based Thermal Paste Production Value, (2018-2023) & (USD Million)

Table 34. United States Based Manufacturers Silicone-based Thermal Paste Production Value Market Share (2018-2023)

Table 35. United States Based Manufacturers Silicone-based Thermal Paste Production (2018-2023) & (Tons)

Table 36. United States Based Manufacturers Silicone-based Thermal Paste Production Market Share (2018-2023)

Table 37. China Based Silicone-based Thermal Paste Manufacturers, Headquarters and Production Site (Province, Country)

Table 38. China Based Manufacturers Silicone-based Thermal Paste Production Value, (2018-2023) & (USD Million)

Table 39. China Based Manufacturers Silicone-based Thermal Paste Production Value Market Share (2018-2023)

Table 40. China Based Manufacturers Silicone-based Thermal Paste Production (2018-2023) & (Tons)

Table 41. China Based Manufacturers Silicone-based Thermal Paste Production Market Share (2018-2023)

Table 42. Rest of World Based Silicone-based Thermal Paste Manufacturers, Headquarters and Production Site (States, Country)

Table 43. Rest of World Based Manufacturers Silicone-based Thermal Paste Production Value, (2018-2023) & (USD Million)

Table 44. Rest of World Based Manufacturers Silicone-based Thermal Paste Production Value Market Share (2018-2023)

Table 45. Rest of World Based Manufacturers Silicone-based Thermal Paste Production (2018-2023) & (Tons)

Table 46. Rest of World Based Manufacturers Silicone-based Thermal Paste Production Market Share (2018-2023)

Table 47. World Silicone-based Thermal Paste Production Value by Thermal Conductivity, (USD Million), 2018 & 2022 & 2029

Table 48. World Silicone-based Thermal Paste Production by Thermal Conductivity (2018-2023) & (Tons)

Table 49. World Silicone-based Thermal Paste Production by Thermal Conductivity (2024-2029) & (Tons)

Table 50. World Silicone-based Thermal Paste Production Value by Thermal Conductivity (2018-2023) & (USD Million)

Table 51. World Silicone-based Thermal Paste Production Value by Thermal Conductivity (2024-2029) & (USD Million)

Table 52. World Silicone-based Thermal Paste Average Price by Thermal Conductivity (2018-2023) & (US\$/kg)

Table 53. World Silicone-based Thermal Paste Average Price by Thermal Conductivity (2024-2029) & (US\$/kg)

Table 54. World Silicone-based Thermal Paste Production Value by Application, (USD Million), 2018 & 2022 & 2029

Table 55. World Silicone-based Thermal Paste Production by Application (2018-2023) & (Tons)

Table 56. World Silicone-based Thermal Paste Production by Application (2024-2029) & (Tons)

Table 57. World Silicone-based Thermal Paste Production Value by Application (2018-2023) & (USD Million)

Table 58. World Silicone-based Thermal Paste Production Value by Application (2024-2029) & (USD Million)

Table 59. World Silicone-based Thermal Paste Average Price by Application (2018-2023) & (US\$/kg)

Table 60. World Silicone-based Thermal Paste Average Price by Application

(2024-2029) & (US\$/kg)

Table 61. Henkel Basic Information, Manufacturing Base and Competitors

Table 62. Henkel Major Business

Table 63. Henkel Silicone-based Thermal Paste Product and Services

Table 64. Henkel Silicone-based Thermal Paste Production (Tons), Price (US\$/kg), Production Value (USD Million), Gross Margin and Market Share (2018-2023)

Table 65. Henkel Recent Developments/Updates

Table 66. Henkel Competitive Strengths & Weaknesses

Table 67. Shin-Etsu Chemical Basic Information, Manufacturing Base and Competitors

Table 68. Shin-Etsu Chemical Major Business

Table 69. Shin-Etsu Chemical Silicone-based Thermal Paste Product and Services

Table 70. Shin-Etsu Chemical Silicone-based Thermal Paste Production (Tons), Price (US\$/kg), Production Value (USD Million), Gross Margin and Market Share (2018-2023)

Table 71. Shin-Etsu Chemical Recent Developments/Updates

Table 72. Shin-Etsu Chemical Competitive Strengths & Weaknesses

Table 73. Parker Hannifin Basic Information, Manufacturing Base and Competitors

Table 74. Parker Hannifin Major Business

Table 75. Parker Hannifin Silicone-based Thermal Paste Product and Services

Table 76. Parker Hannifin Silicone-based Thermal Paste Production (Tons), Price (US\$/kg), Production Value (USD Million), Gross Margin and Market Share (2018-2023)

Table 77. Parker Hannifin Recent Developments/Updates

Table 78. Parker Hannifin Competitive Strengths & Weaknesses

Table 79. Dow Basic Information, Manufacturing Base and Competitors

Table 80. Dow Major Business

Table 81. Dow Silicone-based Thermal Paste Product and Services

Table 82. Dow Silicone-based Thermal Paste Production (Tons), Price (US\$/kg), Production Value (USD Million), Gross Margin and Market Share (2018-2023)

Table 83. Dow Recent Developments/Updates

Table 84. Dow Competitive Strengths & Weaknesses

Table 85. Cooler Master Basic Information, Manufacturing Base and Competitors

Table 86. Cooler Master Major Business

Table 87. Cooler Master Silicone-based Thermal Paste Product and Services

Table 88. Cooler Master Silicone-based Thermal Paste Production (Tons), Price (US\$/kg), Production Value (USD Million), Gross Margin and Market Share (2018-2023)

Table 89. Cooler Master Recent Developments/Updates

Table 90. Cooler Master Competitive Strengths & Weaknesses

Table 91. CHT Group Basic Information, Manufacturing Base and Competitors

Table 92. CHT Group Major Business

Table 93. CHT Group Silicone-based Thermal Paste Product and Services

- Table 94. CHT Group Silicone-based Thermal Paste Production (Tons), Price (US\$/kg), Production Value (USD Million), Gross Margin and Market Share (2018-2023)
- Table 95. CHT Group Recent Developments/Updates
- Table 96. CHT Group Competitive Strengths & Weaknesses
- Table 97. Denka Company Limited Basic Information, Manufacturing Base and Competitors
- Table 98. Denka Company Limited Major Business
- Table 99. Denka Company Limited Silicone-based Thermal Paste Product and Services
- Table 100. Denka Company Limited Silicone-based Thermal Paste Production (Tons), Price (US\$/kg), Production Value (USD Million), Gross Margin and Market Share (2018-2023)
- Table 101. Denka Company Limited Recent Developments/Updates
- Table 102. Denka Company Limited Competitive Strengths & Weaknesses
- Table 103. Momentive Basic Information, Manufacturing Base and Competitors
- Table 104. Momentive Major Business
- Table 105. Momentive Silicone-based Thermal Paste Product and Services
- Table 106. Momentive Silicone-based Thermal Paste Production (Tons), Price (US\$/kg), Production Value (USD Million), Gross Margin and Market Share (2018-2023)
- Table 107. Momentive Recent Developments/Updates
- Table 108. Momentive Competitive Strengths & Weaknesses
- Table 109. RS Components Basic Information, Manufacturing Base and Competitors
- Table 110. RS Components Major Business
- Table 111. RS Components Silicone-based Thermal Paste Product and Services
- Table 112. RS Components Silicone-based Thermal Paste Production (Tons), Price (US\$/kg), Production Value (USD Million), Gross Margin and Market Share (2018-2023)
- Table 113. RS Components Recent Developments/Updates
- Table 114. RS Components Competitive Strengths & Weaknesses
- Table 115. OKS Basic Information, Manufacturing Base and Competitors
- Table 116. OKS Major Business
- Table 117. OKS Silicone-based Thermal Paste Product and Services
- Table 118. OKS Silicone-based Thermal Paste Production (Tons), Price (US\$/kg), Production Value (USD Million), Gross Margin and Market Share (2018-2023)
- Table 119. OKS Recent Developments/Updates
- Table 120. OKS Competitive Strengths & Weaknesses
- Table 121. MacDermid Alpha Electronics Solutions Basic Information, Manufacturing Base and Competitors
- Table 122. MacDermid Alpha Electronics Solutions Major Business
- Table 123. MacDermid Alpha Electronics Solutions Silicone-based Thermal Paste Product and Services

Table 124. MacDermid Alpha Electronics Solutions Silicone-based Thermal Paste Production (Tons), Price (US\$/kg), Production Value (USD Million), Gross Margin and Market Share (2018-2023)

Table 125. MacDermid Alpha Electronics Solutions Recent Developments/Updates

Table 126. MacDermid Alpha Electronics Solutions Competitive Strengths & Weaknesses

Table 127. Fujipoly Basic Information, Manufacturing Base and Competitors

Table 128. Fujipoly Major Business

Table 129. Fujipoly Silicone-based Thermal Paste Product and Services

Table 130. Fujipoly Silicone-based Thermal Paste Production (Tons), Price (US\$/kg), Production Value (USD Million), Gross Margin and Market Share (2018-2023)

Table 131. Fujipoly Recent Developments/Updates

Table 132. Fujipoly Competitive Strengths & Weaknesses

Table 133. Wacker Basic Information, Manufacturing Base and Competitors

Table 134. Wacker Major Business

Table 135. Wacker Silicone-based Thermal Paste Product and Services

Table 136. Wacker Silicone-based Thermal Paste Production (Tons), Price (US\$/kg), Production Value (USD Million), Gross Margin and Market Share (2018-2023)

Table 137. Wacker Recent Developments/Updates

Table 138. Wacker Competitive Strengths & Weaknesses

Table 139. Arctic Basic Information, Manufacturing Base and Competitors

Table 140. Arctic Major Business

Table 141. Arctic Silicone-based Thermal Paste Product and Services

Table 142. Arctic Silicone-based Thermal Paste Production (Tons), Price (US\$/kg), Production Value (USD Million), Gross Margin and Market Share (2018-2023)

Table 143. Arctic Recent Developments/Updates

Table 144. Arctic Competitive Strengths & Weaknesses

Table 145. NTE Electronics Basic Information, Manufacturing Base and Competitors

Table 146. NTE Electronics Major Business

Table 147. NTE Electronics Silicone-based Thermal Paste Product and Services

Table 148. NTE Electronics Silicone-based Thermal Paste Production (Tons), Price (US\$/kg), Production Value (USD Million), Gross Margin and Market Share (2018-2023)

Table 149. NTE Electronics Recent Developments/Updates

Table 150. NTE Electronics Competitive Strengths & Weaknesses

Table 151. Boyd Basic Information, Manufacturing Base and Competitors

Table 152. Boyd Major Business

Table 153. Boyd Silicone-based Thermal Paste Product and Services

Table 154. Boyd Silicone-based Thermal Paste Production (Tons), Price (US\$/kg), Production Value (USD Million), Gross Margin and Market Share (2018-2023)

Table 155. Boyd Recent Developments/Updates

Table 156. Noctua Basic Information, Manufacturing Base and Competitors

Table 157. Noctua Major Business

Table 158. Noctua Silicone-based Thermal Paste Product and Services

Table 159. Noctua Silicone-based Thermal Paste Production (Tons), Price (US\$/kg), Production Value (USD Million), Gross Margin and Market Share (2018-2023)

Table 160. Global Key Players of Silicone-based Thermal Paste Upstream (Raw Materials)

Table 161. Silicone-based Thermal Paste Typical Customers

Table 162. Silicone-based Thermal Paste Typical Distributors

List of Figure

Figure 1. Silicone-based Thermal Paste Picture

Figure 2. World Silicone-based Thermal Paste Production Value: 2018 & 2022 & 2029, (USD Million)

Figure 3. World Silicone-based Thermal Paste Production Value and Forecast (2018-2029) & (USD Million)

Figure 4. World Silicone-based Thermal Paste Production (2018-2029) & (Tons)

Figure 5. World Silicone-based Thermal Paste Average Price (2018-2029) & (US\$/kg)

Figure 6. World Silicone-based Thermal Paste Production Value Market Share by Region (2018-2029)

Figure 7. World Silicone-based Thermal Paste Production Market Share by Region (2018-2029)

Figure 8. North America Silicone-based Thermal Paste Production (2018-2029) & (Tons)

Figure 9. Europe Silicone-based Thermal Paste Production (2018-2029) & (Tons)

Figure 10. China Silicone-based Thermal Paste Production (2018-2029) & (Tons)

Figure 11. Japan Silicone-based Thermal Paste Production (2018-2029) & (Tons)

Figure 12. Silicone-based Thermal Paste Market Drivers

Figure 13. Factors Affecting Demand

Figure 14. World Silicone-based Thermal Paste Consumption (2018-2029) & (Tons)

Figure 15. World Silicone-based Thermal Paste Consumption Market Share by Region (2018-2029)

Figure 16. United States Silicone-based Thermal Paste Consumption (2018-2029) & (Tons)

Figure 17. China Silicone-based Thermal Paste Consumption (2018-2029) & (Tons)

Figure 18. Europe Silicone-based Thermal Paste Consumption (2018-2029) & (Tons)

Figure 19. Japan Silicone-based Thermal Paste Consumption (2018-2029) & (Tons)

Figure 20. South Korea Silicone-based Thermal Paste Consumption (2018-2029) & (Tons)

Figure 21. ASEAN Silicone-based Thermal Paste Consumption (2018-2029) & (Tons)

Figure 22. India Silicone-based Thermal Paste Consumption (2018-2029) & (Tons)

Figure 23. Producer Shipments of Silicone-based Thermal Paste by Manufacturer Revenue (\$MM) and Market Share (%): 2022

Figure 24. Global Four-firm Concentration Ratios (CR4) for Silicone-based Thermal Paste Markets in 2022

Figure 25. Global Four-firm Concentration Ratios (CR8) for Silicone-based Thermal Paste Markets in 2022

Figure 26. United States VS China: Silicone-based Thermal Paste Production Value Market Share Comparison (2018 & 2022 & 2029)

Figure 27. United States VS China: Silicone-based Thermal Paste Production Market Share Comparison (2018 & 2022 & 2029)

Figure 28. United States VS China: Silicone-based Thermal Paste Consumption Market Share Comparison (2018 & 2022 & 2029)

Figure 29. United States Based Manufacturers Silicone-based Thermal Paste Production Market Share 2022

Figure 30. China Based Manufacturers Silicone-based Thermal Paste Production Market Share 2022

Figure 31. Rest of World Based Manufacturers Silicone-based Thermal Paste Production Market Share 2022

Figure 32. World Silicone-based Thermal Paste Production Value by Thermal Conductivity, (USD Million), 2018 & 2022 & 2029

Figure 33. World Silicone-based Thermal Paste Production Value Market Share by Thermal Conductivity in 2022

Figure 34. Below 2.5 W/mK

Figure 35. 2.5 to 5 W/mK

Figure 36. Above 5 W/mK

Figure 37. World Silicone-based Thermal Paste Production Market Share by Thermal Conductivity (2018-2029)

Figure 38. World Silicone-based Thermal Paste Production Value Market Share by Thermal Conductivity (2018-2029)

Figure 39. World Silicone-based Thermal Paste Average Price by Thermal Conductivity (2018-2029) & (US\$/kg)

Figure 40. World Silicone-based Thermal Paste Production Value by Application, (USD Million), 2018 & 2022 & 2029

Figure 41. World Silicone-based Thermal Paste Production Value Market Share by Application in 2022

Figure 42. Automotive and Transportation

Figure 43. LED

Figure 44. Electronics and Home Appliances

Figure 45. Telecommunications

Figure 46. Others

Figure 47. World Silicone-based Thermal Paste Production Market Share by Application (2018-2029)

Figure 48. World Silicone-based Thermal Paste Production Value Market Share by Application (2018-2029)

Figure 49. World Silicone-based Thermal Paste Average Price by Application (2018-2029) & (US\$/kg)

Figure 50. Silicone-based Thermal Paste Industry Chain

Figure 51. Silicone-based Thermal Paste Procurement Model

Figure 52. Silicone-based Thermal Paste Sales Model

Figure 53. Silicone-based Thermal Paste Sales Channels, Direct Sales, and Distribution

Figure 54. Methodology

Figure 55. Research Process and Data Source

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