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Global IC Packaging Thermal Paste Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global IC Packaging Thermal Paste market size is expected to reach $ 192 million by 2032, rising at a market growth of 8.8% CAGR during the forecast period (2026-2032).

In 2025, global sales of IC Packaging Thermal Paste reached approximately 450 metric tons, with an average manufacturer-level selling price of about US$230 per kilogram. Gross margins among major manufacturers were approximately 32%–45%.

IC Packaging Thermal Paste is a paste-form thermal interface material applied between the semiconductor die and the package lid, heat spreader, or direct-cooling structure. It fills microscopic surface irregularities and air gaps between the contacting surfaces, thereby forming a continuous, low-thermal-resistance heat-transfer path that enables heat generated by the chip to be transferred more efficiently to the package-level heat dissipation structure. Its primary functions are to reduce interfacial thermal resistance, mitigate localized hot spots, and limit junction-temperature rise, thereby improving chip operating stability, power-handling capability, and package reliability. The product is mainly used in TIM1 and certain TIM1.5 interfaces.

The upstream supply chain primarily includes base materials such as silicone oil, polysiloxane, and acrylic resin; thermally conductive fillers such as alumina, boron nitride, zinc oxide, silver powder, and carbon-based materials; and functional additives including coupling agents, dispersants, thixotropic agents, and curing agents. Filler particle-size distribution, dispersion uniformity, and impurity control directly affect product performance. Downstream applications mainly cover high-power IC packaging in data centers, consumer electronics, automotive electronics, telecommunication equipment, and industrial electronics. Material suppliers, semiconductor assembly and

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test companies, chip manufacturers, and end-equipment manufacturers jointly conduct formulation validation, packaging-process qualification, and reliability certification.

Report Scope

This report studies the global IC Packaging Thermal Paste production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for IC Packaging Thermal Paste 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 IC Packaging Thermal Paste that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global IC Packaging Thermal Paste total production and demand, 2021-2032, (Tons)

Global IC Packaging Thermal Paste total production value, 2021-2032, (USD Million)

Global IC Packaging Thermal Paste production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Tons), (based on production site)

Global IC Packaging Thermal Paste consumption by region & country, CAGR, 2021-2032 & (Tons)

U.S. VS China: IC Packaging Thermal Paste domestic production, consumption, key domestic manufacturers and share

Global IC Packaging Thermal Paste production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Tons)

Global IC Packaging Thermal Paste production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Tons)

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Global IC Packaging Thermal Paste production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Tons)

This report profiles key players in the global IC Packaging 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 Heraeus Electronics, Dow, Shin-Etsu Chemical, Momentive Performance Materials, NAMICS, Parker Hannifin, Qnity Electronics, GTA Material, Darbond Technology, 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 IC Packaging 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 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 IC Packaging Thermal Paste Market, By Region:

United States

China

Europe

Japan

South Korea

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ASEAN

India

Rest of World

Market Segmentation

Global IC Packaging Thermal Paste Market, Segmentation by Type:

Silicone-based

Silicone-free

Global IC Packaging Thermal Paste Market, Segmentation by Electrical Property:

Electrically Insulating Type

Electrically Conductive Type

Global IC Packaging Thermal Paste Market, Segmentation by Thermal Conductivity:

Standard Thermal Conductivity Type (?5 W/(m·K))

High Thermal Conductivity Type (>5–10 W/(m·K))

Ultra-high Thermal Conductivity Type (>10 W/(m·K))

Global IC Packaging Thermal Paste Market, Segmentation by Application:

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Data Center

Consumer Electronics

Automotive Electronics

Telecommunication Equipment

Industrial Electronics

Other

Companies Profiled:

Heraeus Electronics

Dow

Shin-Etsu Chemical

Momentive Performance Materials

NAMICS

Parker Hannifin

Qnity Electronics

GTA Material

Darbond Technology

Key Questions Answered

1. How big is the global IC Packaging Thermal Paste market?
2. What is the demand of the global IC Packaging Thermal Paste market?

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3. What is the year over year growth of the global IC Packaging Thermal Paste market?
4. What is the total value of the global IC Packaging Thermal Paste market?
5. Who are the Major Players in the global IC Packaging Thermal Paste market?
6. What are the growth factors driving the market demand?

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Contents

1 SUPPLY SUMMARY

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

2 DEMAND SUMMARY

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

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3 WORLD MANUFACTURERS COMPETITIVE ANALYSIS

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

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

5 MARKET ANALYSIS BY TYPE

5.1 World IC Packaging Thermal Paste Market Size Overview by Type: 2021 VS 2025 VS 2032
5.2 Segment Introduction by Type
5.2.1 Silicone-based
5.2.2 Silicone-free
5.3 Market Segment by Type
5.3.1 World IC Packaging Thermal Paste Production by Type (2021-2032)
5.3.2 World IC Packaging Thermal Paste Production Value by Type (2021-2032)
5.3.3 World IC Packaging Thermal Paste Average Price by Type (2021-2032)

6 MARKET ANALYSIS BY ELECTRICAL PROPERTY

6.1 World IC Packaging Thermal Paste Market Size Overview by Electrical Property:

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2021 VS 2025 VS 2032
6.2 Segment Introduction by Electrical Property
6.2.1 Electrically Insulating Type
6.2.2 Electrically Conductive Type
6.3 Market Segment by Electrical Property
6.3.1 World IC Packaging Thermal Paste Production by Electrical Property (2021-2032)
6.3.2 World IC Packaging Thermal Paste Production Value by Electrical Property (2021-2032)
6.3.3 World IC Packaging Thermal Paste Average Price by Electrical Property (2021-2032)

7 MARKET ANALYSIS BY THERMAL CONDUCTIVITY

7.1 World IC Packaging Thermal Paste Market Size Overview by Thermal Conductivity: 2021 VS 2025 VS 2032
7.2 Segment Introduction by Thermal Conductivity
7.2.1 Standard Thermal Conductivity Type (?5 W/(m·K))
7.2.2 High Thermal Conductivity Type (>5–10 W/(m·K))
7.2.3 Ultra-high Thermal Conductivity Type (>10 W/(m·K))
7.3 Market Segment by Thermal Conductivity
7.3.1 World IC Packaging Thermal Paste Production by Thermal Conductivity (2021-2032)
7.3.2 World IC Packaging Thermal Paste Production Value by Thermal Conductivity (2021-2032)
7.3.3 World IC Packaging Thermal Paste Average Price by Thermal Conductivity (2021-2032)

8 MARKET ANALYSIS BY APPLICATION

8.1 World IC Packaging Thermal Paste Market Size Overview by Application: 2021 VS 2025 VS 2032
8.2 Segment Introduction by Application
8.2.1 Data Center
8.2.2 Consumer Electronics
8.2.3 Automotive Electronics
8.2.4 Telecommunication Equipment
8.2.5 Industrial Electronics
8.2.6 Other

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8.3 Market Segment by Application
8.3.1 World IC Packaging Thermal Paste Production by Application (2021-2032)
8.3.2 World IC Packaging Thermal Paste Production Value by Application (2021-2032)
8.3.3 World IC Packaging Thermal Paste Average Price by Application (2021-2032)

9 COMPANY PROFILES

9.1 Heraeus Electronics
9.1.1 Heraeus Electronics Details
9.1.2 Heraeus Electronics Major Business
9.1.3 Heraeus Electronics IC Packaging Thermal Paste Product and Services
9.1.4 Heraeus Electronics IC Packaging Thermal Paste Production, Price, Value, Gross Margin and Market Share (2021-2026)
9.1.5 Heraeus Electronics Recent Developments/Updates
9.1.6 Heraeus Electronics Competitive Strengths & Weaknesses
9.2 Dow
9.2.1 Dow Details
9.2.2 Dow Major Business
9.2.3 Dow IC Packaging Thermal Paste Product and Services
9.2.4 Dow IC Packaging Thermal Paste Production, Price, Value, Gross Margin and Market Share (2021-2026)
9.2.5 Dow Recent Developments/Updates
9.2.6 Dow Competitive Strengths & Weaknesses
9.3 Shin-Etsu Chemical
9.3.1 Shin-Etsu Chemical Details
9.3.2 Shin-Etsu Chemical Major Business
9.3.3 Shin-Etsu Chemical IC Packaging Thermal Paste Product and Services
9.3.4 Shin-Etsu Chemical IC Packaging Thermal Paste Production, Price, Value, Gross Margin and Market Share (2021-2026)
9.3.5 Shin-Etsu Chemical Recent Developments/Updates
9.3.6 Shin-Etsu Chemical Competitive Strengths & Weaknesses
9.4 Momentive Performance Materials
9.4.1 Momentive Performance Materials Details
9.4.2 Momentive Performance Materials Major Business
9.4.3 Momentive Performance Materials IC Packaging Thermal Paste Product and Services
9.4.4 Momentive Performance Materials IC Packaging Thermal Paste Production, Price, Value, Gross Margin and Market Share (2021-2026)
9.4.5 Momentive Performance Materials Recent Developments/Updates

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9.4.6 Momentive Performance Materials Competitive Strengths & Weaknesses
9.5 NAMICS
9.5.1 NAMICS Details
9.5.2 NAMICS Major Business
9.5.3 NAMICS IC Packaging Thermal Paste Product and Services
9.5.4 NAMICS IC Packaging Thermal Paste Production, Price, Value, Gross Margin and Market Share (2021-2026)
9.5.5 NAMICS Recent Developments/Updates
9.5.6 NAMICS Competitive Strengths & Weaknesses
9.6 Parker Hannifin
9.6.1 Parker Hannifin Details
9.6.2 Parker Hannifin Major Business
9.6.3 Parker Hannifin IC Packaging Thermal Paste Product and Services
9.6.4 Parker Hannifin IC Packaging Thermal Paste Production, Price, Value, Gross Margin and Market Share (2021-2026)
9.6.5 Parker Hannifin Recent Developments/Updates
9.6.6 Parker Hannifin Competitive Strengths & Weaknesses
9.7 Qnity Electronics
9.7.1 Qnity Electronics Details
9.7.2 Qnity Electronics Major Business
9.7.3 Qnity Electronics IC Packaging Thermal Paste Product and Services
9.7.4 Qnity Electronics IC Packaging Thermal Paste Production, Price, Value, Gross Margin and Market Share (2021-2026)
9.7.5 Qnity Electronics Recent Developments/Updates
9.7.6 Qnity Electronics Competitive Strengths & Weaknesses
9.8 GTA Material
9.8.1 GTA Material Details
9.8.2 GTA Material Major Business
9.8.3 GTA Material IC Packaging Thermal Paste Product and Services
9.8.4 GTA Material IC Packaging Thermal Paste Production, Price, Value, Gross Margin and Market Share (2021-2026)
9.8.5 GTA Material Recent Developments/Updates
9.8.6 GTA Material Competitive Strengths & Weaknesses
9.9 Darbond Technology
9.9.1 Darbond Technology Details
9.9.2 Darbond Technology Major Business
9.9.3 Darbond Technology IC Packaging Thermal Paste Product and Services
9.9.4 Darbond Technology IC Packaging Thermal Paste Production, Price, Value, Gross Margin and Market Share (2021-2026)

+357 96 030922
info@marketpublishers.com

9.9.5 Darbond Technology Recent Developments/Updates
9.9.6 Darbond Technology Competitive Strengths & Weaknesses

10 INDUSTRY CHAIN ANALYSIS

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

11 RESEARCH FINDINGS AND CONCLUSION

12 APPENDIX

12.1 Methodology
12.2 Research Process and Data Source
12.3 Disclaimer

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List Of Tables

LIST OF TABLES

Table 1. World IC Packaging Thermal Paste Production Value by Region (2021, 2025 and 2032) & (USD Million)
Table 2. World IC Packaging Thermal Paste Production Value by Region (2021-2026) & (USD Million)
Table 3. World IC Packaging Thermal Paste Production Value by Region (2027-2032) & (USD Million)
Table 4. World IC Packaging Thermal Paste Production Value Market Share by Region (2021-2026)
Table 5. World IC Packaging Thermal Paste Production Value Market Share by Region (2027-2032)
Table 6. World IC Packaging Thermal Paste Production by Region (2021-2026) & (Tons)
Table 7. World IC Packaging Thermal Paste Production by Region (2027-2032) & (Tons)
Table 8. World IC Packaging Thermal Paste Production Market Share by Region (2021-2026)
Table 9. World IC Packaging Thermal Paste Production Market Share by Region (2027-2032)
Table 10. World IC Packaging Thermal Paste Average Price by Region (2021-2026) & (US$/kg)
Table 11. World IC Packaging Thermal Paste Average Price by Region (2027-2032) & (US$/kg)
Table 12. IC Packaging Thermal Paste Major Market Trends
Table 13. World IC Packaging Thermal Paste Consumption Growth Rate Forecast by Region (2021 & 2025 & 2032) & (Tons)
Table 14. World IC Packaging Thermal Paste Consumption by Region (2021-2026) & (Tons)
Table 15. World IC Packaging Thermal Paste Consumption Forecast by Region (2027-2032) & (Tons)
Table 16. World IC Packaging Thermal Paste Production Value by Manufacturer (2021-2026) & (USD Million)
Table 17. Production Value Market Share of Key IC Packaging Thermal Paste Producers in 2025
Table 18. World IC Packaging Thermal Paste Production by Manufacturer (2021-2026) & (Tons)

+357 96 030922
info@marketpublishers.com

Table 19. Production Market Share of Key IC Packaging Thermal Paste Producers in 2025
Table 20. World IC Packaging Thermal Paste Average Price by Manufacturer (2021-2026) & (US$/kg)
Table 21. Global IC Packaging Thermal Paste Company Evaluation Quadrant
Table 22. World IC Packaging Thermal Paste Industry Rank of Major Manufacturers, Based on Production Value in 2025
Table 23. Head Office and IC Packaging Thermal Paste Production Site of Key Manufacturer
Table 24. IC Packaging Thermal Paste Market: Company Product Type Footprint
Table 25. IC Packaging Thermal Paste Market: Company Product Application Footprint
Table 26. IC Packaging Thermal Paste Competitive Factors
Table 27. IC Packaging Thermal Paste New Entrant and Capacity Expansion Plans
Table 28. IC Packaging Thermal Paste Mergers & Acquisitions Activity
Table 29. United States VS China IC Packaging Thermal Paste Production Value Comparison, (2021 & 2025 & 2032) & (USD Million)
Table 30. United States VS China IC Packaging Thermal Paste Production Comparison, (2021 & 2025 & 2032) & (Tons)
Table 31. United States VS China IC Packaging Thermal Paste Consumption Comparison, (2021 & 2025 & 2032) & (Tons)
Table 32. United States Based IC Packaging Thermal Paste Manufacturers, Headquarters and Production Site (States, Country)
Table 33. United States Based Manufacturers IC Packaging Thermal Paste Production Value, (2021-2026) & (USD Million)
Table 34. United States Based Manufacturers IC Packaging Thermal Paste Production Value Market Share (2021-2026)
Table 35. United States Based Manufacturers IC Packaging Thermal Paste Production (2021-2026) & (Tons)
Table 36. United States Based Manufacturers IC Packaging Thermal Paste Production Market Share (2021-2026)
Table 37. China Based IC Packaging Thermal Paste Manufacturers, Headquarters and Production Site (Province, Country)
Table 38. China Based Manufacturers IC Packaging Thermal Paste Production Value, (2021-2026) & (USD Million)
Table 39. China Based Manufacturers IC Packaging Thermal Paste Production Value Market Share (2021-2026)
Table 40. China Based Manufacturers IC Packaging Thermal Paste Production, (2021-2026) & (Tons)
Table 41. China Based Manufacturers IC Packaging Thermal Paste Production Market

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Share (2021-2026)
Table 42. Rest of World Based IC Packaging Thermal Paste Manufacturers, Headquarters and Production Site (State, Country)
Table 43. Rest of World Based Manufacturers IC Packaging Thermal Paste Production Value, (2021-2026) & (USD Million)
Table 44. Rest of World Based Manufacturers IC Packaging Thermal Paste Production Value Market Share (2021-2026)
Table 45. Rest of World Based Manufacturers IC Packaging Thermal Paste Production, (2021-2026) & (Tons)
Table 46. Rest of World Based Manufacturers IC Packaging Thermal Paste Production Market Share (2021-2026)
Table 47. World IC Packaging Thermal Paste Production Value by Type, (USD Million), 2021 & 2025 & 2032
Table 48. World IC Packaging Thermal Paste Production by Type (2021-2026) & (Tons)
Table 49. World IC Packaging Thermal Paste Production by Type (2027-2032) & (Tons)
Table 50. World IC Packaging Thermal Paste Production Value by Type (2021-2026) & (USD Million)
Table 51. World IC Packaging Thermal Paste Production Value by Type (2027-2032) & (USD Million)
Table 52. World IC Packaging Thermal Paste Average Price by Type (2021-2026) & (US$/kg)
Table 53. World IC Packaging Thermal Paste Average Price by Type (2027-2032) & (US$/kg)
Table 54. World IC Packaging Thermal Paste Production Value by Electrical Property, (USD Million), 2021 & 2025 & 2032
Table 55. World IC Packaging Thermal Paste Production by Electrical Property (2021-2026) & (Tons)
Table 56. World IC Packaging Thermal Paste Production by Electrical Property (2027-2032) & (Tons)
Table 57. World IC Packaging Thermal Paste Production Value by Electrical Property (2021-2026) & (USD Million)
Table 58. World IC Packaging Thermal Paste Production Value by Electrical Property (2027-2032) & (USD Million)
Table 59. World IC Packaging Thermal Paste Average Price by Electrical Property (2021-2026) & (US$/kg)
Table 60. World IC Packaging Thermal Paste Average Price by Electrical Property (2027-2032) & (US$/kg)
Table 61. World IC Packaging Thermal Paste Production Value by Thermal Conductivity, (USD Million), 2021 & 2025 & 2032

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info@marketpublishers.com

Table 62. World IC Packaging Thermal Paste Production by Thermal Conductivity (2021-2026) & (Tons)
Table 63. World IC Packaging Thermal Paste Production by Thermal Conductivity (2027-2032) & (Tons)
Table 64. World IC Packaging Thermal Paste Production Value by Thermal Conductivity (2021-2026) & (USD Million)
Table 65. World IC Packaging Thermal Paste Production Value by Thermal Conductivity (2027-2032) & (USD Million)
Table 66. World IC Packaging Thermal Paste Average Price by Thermal Conductivity (2021-2026) & (US$/kg)
Table 67. World IC Packaging Thermal Paste Average Price by Thermal Conductivity (2027-2032) & (US$/kg)
Table 68. World IC Packaging Thermal Paste Production Value by Application, (USD Million), 2021 & 2025 & 2032
Table 69. World IC Packaging Thermal Paste Production by Application (2021-2026) & (Tons)
Table 70. World IC Packaging Thermal Paste Production by Application (2027-2032) & (Tons)
Table 71. World IC Packaging Thermal Paste Production Value by Application (2021-2026) & (USD Million)
Table 72. World IC Packaging Thermal Paste Production Value by Application (2027-2032) & (USD Million)
Table 73. World IC Packaging Thermal Paste Average Price by Application (2021-2026) & (US$/kg)
Table 74. World IC Packaging Thermal Paste Average Price by Application (2027-2032) & (US$/kg)
Table 75. Heraeus Electronics Basic Information, Manufacturing Base and Competitors
Table 76. Heraeus Electronics Major Business
Table 77. Heraeus Electronics IC Packaging Thermal Paste Product and Services
Table 78. Heraeus Electronics IC Packaging Thermal Paste Production (Tons), Price (US$/kg), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 79. Heraeus Electronics Recent Developments/Updates
Table 80. Heraeus Electronics Competitive Strengths & Weaknesses
Table 81. Dow Basic Information, Manufacturing Base and Competitors
Table 82. Dow Major Business
Table 83. Dow IC Packaging Thermal Paste Product and Services
Table 84. Dow IC Packaging Thermal Paste Production (Tons), Price (US$/kg), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 85. Dow Recent Developments/Updates

+357 96 030922
info@marketpublishers.com

Table 86. Dow Competitive Strengths & Weaknesses
Table 87. Shin-Etsu Chemical Basic Information, Manufacturing Base and Competitors
Table 88. Shin-Etsu Chemical Major Business
Table 89. Shin-Etsu Chemical IC Packaging Thermal Paste Product and Services
Table 90. Shin-Etsu Chemical IC Packaging Thermal Paste Production (Tons), Price (US$/kg), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 91. Shin-Etsu Chemical Recent Developments/Updates
Table 92. Shin-Etsu Chemical Competitive Strengths & Weaknesses
Table 93. Momentive Performance Materials Basic Information, Manufacturing Base and Competitors
Table 94. Momentive Performance Materials Major Business
Table 95. Momentive Performance Materials IC Packaging Thermal Paste Product and Services
Table 96. Momentive Performance Materials IC Packaging Thermal Paste Production (Tons), Price (US$/kg), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 97. Momentive Performance Materials Recent Developments/Updates
Table 98. Momentive Performance Materials Competitive Strengths & Weaknesses
Table 99. NAMICS Basic Information, Manufacturing Base and Competitors
Table 100. NAMICS Major Business
Table 101. NAMICS IC Packaging Thermal Paste Product and Services
Table 102. NAMICS IC Packaging Thermal Paste Production (Tons), Price (US$/kg), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 103. NAMICS Recent Developments/Updates
Table 104. NAMICS Competitive Strengths & Weaknesses
Table 105. Parker Hannifin Basic Information, Manufacturing Base and Competitors
Table 106. Parker Hannifin Major Business
Table 107. Parker Hannifin IC Packaging Thermal Paste Product and Services
Table 108. Parker Hannifin IC Packaging Thermal Paste Production (Tons), Price (US$/kg), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 109. Parker Hannifin Recent Developments/Updates
Table 110. Parker Hannifin Competitive Strengths & Weaknesses
Table 111. Qnity Electronics Basic Information, Manufacturing Base and Competitors
Table 112. Qnity Electronics Major Business
Table 113. Qnity Electronics IC Packaging Thermal Paste Product and Services
Table 114. Qnity Electronics IC Packaging Thermal Paste Production (Tons), Price (US$/kg), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 115. Qnity Electronics Recent Developments/Updates
Table 116. Qnity Electronics Competitive Strengths & Weaknesses

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Table 117. GTA Material Basic Information, Manufacturing Base and Competitors
Table 118. GTA Material Major Business
Table 119. GTA Material IC Packaging Thermal Paste Product and Services
Table 120. GTA Material IC Packaging Thermal Paste Production (Tons), Price (US$/kg), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 121. GTA Material Recent Developments/Updates
Table 122. GTA Material Competitive Strengths & Weaknesses
Table 123. Darbond Technology Basic Information, Manufacturing Base and Competitors
Table 124. Darbond Technology Major Business
Table 125. Darbond Technology IC Packaging Thermal Paste Product and Services
Table 126. Darbond Technology IC Packaging Thermal Paste Production (Tons), Price (US$/kg), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 127. Darbond Technology Recent Developments/Updates
Table 128. Darbond Technology Competitive Strengths & Weaknesses
Table 129. Global Key Players of IC Packaging Thermal Paste Upstream (Raw Materials)
Table 130. Global IC Packaging Thermal Paste Typical Customers
Table 131. IC Packaging Thermal Paste Typical Distributors

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List Of Figures

LIST OF FIGURES

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

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Paste Markets in 2025
Figure 27. United States VS China: IC Packaging Thermal Paste Production Value Market Share Comparison (2021 & 2025 & 2032)
Figure 28. United States VS China: IC Packaging Thermal Paste Production Market Share Comparison (2021 & 2025 & 2032)
Figure 29. United States VS China: IC Packaging Thermal Paste Consumption Market Share Comparison (2021 & 2025 & 2032)
Figure 30. United States Based Manufacturers IC Packaging Thermal Paste Production Market Share 2025
Figure 31. China Based Manufacturers IC Packaging Thermal Paste Production Market Share 2025
Figure 32. Rest of World Based Manufacturers IC Packaging Thermal Paste Production Market Share 2025
Figure 33. World IC Packaging Thermal Paste Production Value by Type, (USD Million), 2021 & 2025 & 2032
Figure 34. World IC Packaging Thermal Paste Production Value Market Share by Type in 2025
Figure 35. Silicone-based
Figure 36. Silicone-free
Figure 37. World IC Packaging Thermal Paste Production Market Share by Type (2021-2032)
Figure 38. World IC Packaging Thermal Paste Production Value Market Share by Type (2021-2032)
Figure 39. World IC Packaging Thermal Paste Average Price by Type (2021-2032) & (US$/kg)
Figure 40. World IC Packaging Thermal Paste Production Value by Electrical Property, (USD Million), 2021 & 2025 & 2032
Figure 41. World IC Packaging Thermal Paste Production Value Market Share by Electrical Property in 2025
Figure 42. Electrically Insulating Type
Figure 43. Electrically Conductive Type
Figure 44. World IC Packaging Thermal Paste Production Market Share by Electrical Property (2021-2032)
Figure 45. World IC Packaging Thermal Paste Production Value Market Share by Electrical Property (2021-2032)
Figure 46. World IC Packaging Thermal Paste Average Price by Electrical Property (2021-2032) & (US$/kg)
Figure 47. World IC Packaging Thermal Paste Production Value by Thermal Conductivity, (USD Million), 2021 & 2025 & 2032

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Figure 48. World IC Packaging Thermal Paste Production Value Market Share by Thermal Conductivity in 2025
Figure 49. Standard Thermal Conductivity Type (?5 W/(m·K))
Figure 50. High Thermal Conductivity Type (>5–10 W/(m·K))
Figure 51. Ultra-high Thermal Conductivity Type (>10 W/(m·K))
Figure 52. World IC Packaging Thermal Paste Production Market Share by Thermal Conductivity (2021-2032)
Figure 53. World IC Packaging Thermal Paste Production Value Market Share by Thermal Conductivity (2021-2032)
Figure 54. World IC Packaging Thermal Paste Average Price by Thermal Conductivity (2021-2032) & (US$/kg)
Figure 55. World IC Packaging Thermal Paste Production Value by Application, (USD Million), 2021 & 2025 & 2032
Figure 56. World IC Packaging Thermal Paste Production Value Market Share by Application in 2025
Figure 57. Data Center
Figure 58. Consumer Electronics
Figure 59. Automotive Electronics
Figure 60. Telecommunication Equipment
Figure 61. Industrial Electronics
Figure 62. Other
Figure 63. World IC Packaging Thermal Paste Production Market Share by Application (2021-2032)
Figure 64. World IC Packaging Thermal Paste Production Value Market Share by Application (2021-2032)
Figure 65. World IC Packaging Thermal Paste Average Price by Application (2021-2032) & (US$/kg)
Figure 66. IC Packaging Thermal Paste Industry Chain
Figure 67. IC Packaging Thermal Paste Procurement Model
Figure 68. IC Packaging Thermal Paste Sales Model
Figure 69. IC Packaging Thermal Paste Sales Channels, Direct Sales, and Distribution
Figure 70. Methodology
Figure 71. Research Process and Data Source

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