

Global Thermally Conductive Via Filling Resin Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global Thermally Conductive Via Filling Resin market size is expected to reach \$ 167 million by 2032, rising at a market growth of 8.4% CAGR during the forecast period (2026-2032).

Thermally conductive via filling resin is a PCB via, blind via, and buried via filling material based on epoxy, acrylic, or other thermosetting resins and loaded with ceramic, copper, silver, or composite thermally conductive fillers. It is used to form dense, grindable, cappable, or electroplatable filling bodies inside vias, improving thermal conduction, surface flatness, assembly reliability, and, in some applications, electrical conductivity. The product's gross margin is approximately 38%.

Demand for thermally conductive via filling resin mainly comes from high-power-density PCBs, 5G communication boards, automotive power electronics, LED heat dissipation boards, and package substrates. As devices move toward higher frequency, higher power, and miniaturization, relying only on open vias for heat dissipation or ordinary resin via plugging makes it difficult to balance thermal management, flatness, and reliability. As a result, the use of thermally conductive via filling materials continues to increase in via-in-pad structures, thermal via arrays, and thick copper boards.

On the supply side, the market is still led by specialized PCB ink, conductive paste, and electronic chemical companies. Product differentiation is concentrated in thermal conductivity, CTE matching, void-free via filling, curing shrinkage, grindability, and compatibility with subsequent electroplating. Conductive copper/silver filling systems have high unit prices and narrow process windows, and are more often used in high-heat-flux and high-reliability boards. Insulating thermally conductive systems have lower costs and are suitable for power boards with stronger electrical isolation requirements.

Short-term growth is affected by the PCB cycle, but in the medium to long term, the market is driven by automotive electrification, AI server power supplies, high-speed communications, and advanced packaging, and is expected to maintain high-single-digit growth.

This report studies the global Thermally Conductive Via Filling Resin production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Thermally Conductive Via Filling Resin 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 Thermally Conductive Via Filling Resin that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Thermally Conductive Via Filling Resin total production and demand, 2021-2032, (kg)

Global Thermally Conductive Via Filling Resin total production value, 2021-2032, (USD Million)

Global Thermally Conductive Via Filling Resin production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (kg), (based on production site)

Global Thermally Conductive Via Filling Resin consumption by region & country, CAGR, 2021-2032 & (kg)

U.S. VS China: Thermally Conductive Via Filling Resin domestic production, consumption, key domestic manufacturers and share

Global Thermally Conductive Via Filling Resin production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (kg)

Global Thermally Conductive Via Filling Resin production by Type, production, value, CAGR, 2021-2032, (USD Million) & (kg)

Global Thermally Conductive Via Filling Resin production by Application, production, value, CAGR, 2021-2032, (USD Million) & (kg)

This report profiles key players in the global Thermally Conductive Via Filling Resin 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 Baroy New Materials, Taiyo America, Tatsuta Electric Wire & Cable, Electra Polymers, Transene, Peters, San-Ei Kagaku, Micromax, 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 Thermally Conductive Via Filling Resin market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (kg) 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 Thermally Conductive Via Filling Resin Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Thermally Conductive Via Filling Resin Market, Segmentation by Type:

Electrically Insulating Thermal Resin

Conductive Copper-Filled Resin

Conductive Silver-Filled Resin

Hybrid Metal-Filled Resin

Other

Global Thermally Conductive Via Filling Resin Market, Segmentation by Thermal Conductivity:

Low Conductivity (10 W/m²K)

Other

Global Thermally Conductive Via Filling Resin Market, Segmentation by Curing System:

One-Component Thermal Cure

Two-Component Thermal Cure

Photoimageable Cure

Low-Temperature Sintering

Other

Global Thermally Conductive Via Filling Resin Market, Segmentation by Via Filling Process:

Vacuum Via Filling

Screen Printing Filling

Stencil Printing Filling

Plated Cap Filling

Other

Global Thermally Conductive Via Filling Resin Market, Segmentation by Application:

High-Power PCB Fabrication

5G Communication Board Fabrication

Automotive Power Electronics PCB

Semiconductor Package Substrate

LED and Lighting PCB

Aerospace and High-Reliability PCB

Industrial Control PCB

Companies Profiled:

Baroy New Materials

Taiyo America

Tatsuta Electric Wire & Cable

Electra Polymers

Transene

Peters

San-Ei Kagaku

Micromax

Key Questions Answered:

1. How big is the global Thermally Conductive Via Filling Resin market?
2. What is the demand of the global Thermally Conductive Via Filling Resin market?
3. What is the year over year growth of the global Thermally Conductive Via Filling Resin market?
4. What is the production and production value of the global Thermally Conductive Via Filling Resin market?
5. Who are the key producers in the global Thermally Conductive Via Filling Resin market?
6. What are the growth factors driving the market demand?

Contents

1 SUPPLY SUMMARY

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

2 DEMAND SUMMARY

- 2.1 World Thermally Conductive Via Filling Resin Demand (2021-2032)
- 2.2 World Thermally Conductive Via Filling Resin Consumption by Region
 - 2.2.1 World Thermally Conductive Via Filling Resin Consumption by Region (2021-2026)
 - 2.2.2 World Thermally Conductive Via Filling Resin Consumption Forecast by Region (2027-2032)
- 2.3 United States Thermally Conductive Via Filling Resin Consumption (2021-2032)
- 2.4 China Thermally Conductive Via Filling Resin Consumption (2021-2032)
- 2.5 Europe Thermally Conductive Via Filling Resin Consumption (2021-2032)
- 2.6 Japan Thermally Conductive Via Filling Resin Consumption (2021-2032)
- 2.7 South Korea Thermally Conductive Via Filling Resin Consumption (2021-2032)
- 2.8 ASEAN Thermally Conductive Via Filling Resin Consumption (2021-2032)

2.9 India Thermally Conductive Via Filling Resin Consumption (2021-2032)

3 WORLD MANUFACTURERS COMPETITIVE ANALYSIS

3.1 World Thermally Conductive Via Filling Resin Production Value by Manufacturer (2021-2026)

3.2 World Thermally Conductive Via Filling Resin Production by Manufacturer (2021-2026)

3.3 World Thermally Conductive Via Filling Resin Average Price by Manufacturer (2021-2026)

3.4 Thermally Conductive Via Filling Resin Company Evaluation Quadrant

3.5 Industry Rank and Concentration Rate (CR)

3.5.1 Global Thermally Conductive Via Filling Resin Industry Rank of Major Manufacturers

3.5.2 Global Concentration Ratios (CR4) for Thermally Conductive Via Filling Resin in 2025

3.5.3 Global Concentration Ratios (CR8) for Thermally Conductive Via Filling Resin in 2025

3.6 Thermally Conductive Via Filling Resin Market: Overall Company Footprint Analysis

3.6.1 Thermally Conductive Via Filling Resin Market: Region Footprint

3.6.2 Thermally Conductive Via Filling Resin Market: Company Product Type Footprint

3.6.3 Thermally Conductive Via Filling Resin 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: Thermally Conductive Via Filling Resin Production Value Comparison

4.1.1 United States VS China: Thermally Conductive Via Filling Resin Production Value Comparison (2021 & 2025 & 2032)

4.1.2 United States VS China: Thermally Conductive Via Filling Resin Production Value Market Share Comparison (2021 & 2025 & 2032)

4.2 United States VS China: Thermally Conductive Via Filling Resin Production

Comparison

4.2.1 United States VS China: Thermally Conductive Via Filling Resin Production Comparison (2021 & 2025 & 2032)

4.2.2 United States VS China: Thermally Conductive Via Filling Resin Production Market Share Comparison (2021 & 2025 & 2032)

4.3 United States VS China: Thermally Conductive Via Filling Resin Consumption Comparison

4.3.1 United States VS China: Thermally Conductive Via Filling Resin Consumption Comparison (2021 & 2025 & 2032)

4.3.2 United States VS China: Thermally Conductive Via Filling Resin Consumption Market Share Comparison (2021 & 2025 & 2032)

4.4 United States Based Thermally Conductive Via Filling Resin Manufacturers and Market Share, 2021-2026

4.4.1 United States Based Thermally Conductive Via Filling Resin Manufacturers, Headquarters and Production Site (States, Country)

4.4.2 United States Based Manufacturers Thermally Conductive Via Filling Resin Production Value (2021-2026)

4.4.3 United States Based Manufacturers Thermally Conductive Via Filling Resin Production (2021-2026)

4.5 China Based Thermally Conductive Via Filling Resin Manufacturers and Market Share

4.5.1 China Based Thermally Conductive Via Filling Resin Manufacturers, Headquarters and Production Site (Province, Country)

4.5.2 China Based Manufacturers Thermally Conductive Via Filling Resin Production Value (2021-2026)

4.5.3 China Based Manufacturers Thermally Conductive Via Filling Resin Production (2021-2026)

4.6 Rest of World Based Thermally Conductive Via Filling Resin Manufacturers and Market Share, 2021-2026

4.6.1 Rest of World Based Thermally Conductive Via Filling Resin Manufacturers, Headquarters and Production Site (State, Country)

4.6.2 Rest of World Based Manufacturers Thermally Conductive Via Filling Resin Production Value (2021-2026)

4.6.3 Rest of World Based Manufacturers Thermally Conductive Via Filling Resin Production (2021-2026)

5 MARKET ANALYSIS BY TYPE

5.1 World Thermally Conductive Via Filling Resin Market Size Overview by Type: 2021

VS 2025 VS 2032

5.2 Segment Introduction by Type

5.2.1 Electrically Insulating Thermal Resin

5.2.2 Conductive Copper-Filled Resin

5.2.3 Conductive Silver-Filled Resin

5.2.4 Hybrid Metal-Filled Resin

5.2.5 Other

5.3 Market Segment by Type

5.3.1 World Thermally Conductive Via Filling Resin Production by Type (2021-2032)

5.3.2 World Thermally Conductive Via Filling Resin Production Value by Type
(2021-2032)

5.3.3 World Thermally Conductive Via Filling Resin Average Price by Type
(2021-2032)

6 MARKET ANALYSIS BY THERMAL CONDUCTIVITY

6.1 World Thermally Conductive Via Filling Resin Market Size Overview by Thermal
Conductivity: 2021 VS 2025 VS 2032

6.2 Segment Introduction by Thermal Conductivity

6.2.1 Low Conductivity (10 W/m²K)

6.2.5 Other

6.3 Market Segment by Thermal Conductivity

6.3.1 World Thermally Conductive Via Filling Resin Production by Thermal
Conductivity (2021-2032)

6.3.2 World Thermally Conductive Via Filling Resin Production Value by Thermal
Conductivity (2021-2032)

6.3.3 World Thermally Conductive Via Filling Resin Average Price by Thermal
Conductivity (2021-2032)

7 MARKET ANALYSIS BY CURING SYSTEM

7.1 World Thermally Conductive Via Filling Resin Market Size Overview by Curing
System: 2021 VS 2025 VS 2032

7.2 Segment Introduction by Curing System

7.2.1 One-Component Thermal Cure

7.2.2 Two-Component Thermal Cure

7.2.3 Photoimageable Cure

7.2.4 Low-Temperature Sintering

7.2.5 Other

7.3 Market Segment by Curing System

7.3.1 World Thermally Conductive Via Filling Resin Production by Curing System (2021-2032)

7.3.2 World Thermally Conductive Via Filling Resin Production Value by Curing System (2021-2032)

7.3.3 World Thermally Conductive Via Filling Resin Average Price by Curing System (2021-2032)

8 MARKET ANALYSIS BY VIA FILLING PROCESS

8.1 World Thermally Conductive Via Filling Resin Market Size Overview by Via Filling Process: 2021 VS 2025 VS 2032

8.2 Segment Introduction by Via Filling Process

8.2.1 Vacuum Via Filling

8.2.2 Screen Printing Filling

8.2.3 Stencil Printing Filling

8.2.4 Plated Cap Filling

8.2.5 Other

8.3 Market Segment by Via Filling Process

8.3.1 World Thermally Conductive Via Filling Resin Production by Via Filling Process (2021-2032)

8.3.2 World Thermally Conductive Via Filling Resin Production Value by Via Filling Process (2021-2032)

8.3.3 World Thermally Conductive Via Filling Resin Average Price by Via Filling Process (2021-2032)

9 MARKET ANALYSIS BY APPLICATION

9.1 World Thermally Conductive Via Filling Resin Market Size Overview by Application: 2021 VS 2025 VS 2032

9.2 Segment Introduction by Application

9.2.1 High-Power PCB Fabrication

9.2.2 5G Communication Board Fabrication

9.2.3 Automotive Power Electronics PCB

9.2.4 Semiconductor Package Substrate

9.2.5 LED and Lighting PCB

9.2.6 Aerospace and High-Reliability PCB

9.2.7 Industrial Control PCB

9.3 Market Segment by Application

9.3.1 World Thermally Conductive Via Filling Resin Production by Application
(2021-2032)

9.3.2 World Thermally Conductive Via Filling Resin Production Value by Application
(2021-2032)

9.3.3 World Thermally Conductive Via Filling Resin Average Price by Application
(2021-2032)

10 COMPANY PROFILES

10.1 Baroy New Materials

10.1.1 Baroy New Materials Details

10.1.2 Baroy New Materials Major Business

10.1.3 Baroy New Materials Thermally Conductive Via Filling Resin Product and Services

10.1.4 Baroy New Materials Thermally Conductive Via Filling Resin Production, Price, Value, Gross Margin and Market Share (2021-2026)

10.1.5 Baroy New Materials Recent Developments/Updates

10.1.6 Baroy New Materials Competitive Strengths & Weaknesses

10.2 Taiyo America

10.2.1 Taiyo America Details

10.2.2 Taiyo America Major Business

10.2.3 Taiyo America Thermally Conductive Via Filling Resin Product and Services

10.2.4 Taiyo America Thermally Conductive Via Filling Resin Production, Price, Value, Gross Margin and Market Share (2021-2026)

10.2.5 Taiyo America Recent Developments/Updates

10.2.6 Taiyo America Competitive Strengths & Weaknesses

10.3 Tatsuta Electric Wire & Cable

10.3.1 Tatsuta Electric Wire & Cable Details

10.3.2 Tatsuta Electric Wire & Cable Major Business

10.3.3 Tatsuta Electric Wire & Cable Thermally Conductive Via Filling Resin Product and Services

10.3.4 Tatsuta Electric Wire & Cable Thermally Conductive Via Filling Resin Production, Price, Value, Gross Margin and Market Share (2021-2026)

10.3.5 Tatsuta Electric Wire & Cable Recent Developments/Updates

10.3.6 Tatsuta Electric Wire & Cable Competitive Strengths & Weaknesses

10.4 Electra Polymers

10.4.1 Electra Polymers Details

10.4.2 Electra Polymers Major Business

10.4.3 Electra Polymers Thermally Conductive Via Filling Resin Product and Services

10.4.4 Electra Polymers Thermally Conductive Via Filling Resin Production, Price, Value, Gross Margin and Market Share (2021-2026)

10.4.5 Electra Polymers Recent Developments/Updates

10.4.6 Electra Polymers Competitive Strengths & Weaknesses

10.5 Transene

10.5.1 Transene Details

10.5.2 Transene Major Business

10.5.3 Transene Thermally Conductive Via Filling Resin Product and Services

10.5.4 Transene Thermally Conductive Via Filling Resin Production, Price, Value, Gross Margin and Market Share (2021-2026)

10.5.5 Transene Recent Developments/Updates

10.5.6 Transene Competitive Strengths & Weaknesses

10.6 Peters

10.6.1 Peters Details

10.6.2 Peters Major Business

10.6.3 Peters Thermally Conductive Via Filling Resin Product and Services

10.6.4 Peters Thermally Conductive Via Filling Resin Production, Price, Value, Gross Margin and Market Share (2021-2026)

10.6.5 Peters Recent Developments/Updates

10.6.6 Peters Competitive Strengths & Weaknesses

10.7 San-Ei Kagaku

10.7.1 San-Ei Kagaku Details

10.7.2 San-Ei Kagaku Major Business

10.7.3 San-Ei Kagaku Thermally Conductive Via Filling Resin Product and Services

10.7.4 San-Ei Kagaku Thermally Conductive Via Filling Resin Production, Price, Value, Gross Margin and Market Share (2021-2026)

10.7.5 San-Ei Kagaku Recent Developments/Updates

10.7.6 San-Ei Kagaku Competitive Strengths & Weaknesses

10.8 Micromax

10.8.1 Micromax Details

10.8.2 Micromax Major Business

10.8.3 Micromax Thermally Conductive Via Filling Resin Product and Services

10.8.4 Micromax Thermally Conductive Via Filling Resin Production, Price, Value, Gross Margin and Market Share (2021-2026)

10.8.5 Micromax Recent Developments/Updates

10.8.6 Micromax Competitive Strengths & Weaknesses

11 INDUSTRY CHAIN ANALYSIS

- 11.1 Thermally Conductive Via Filling Resin Industry Chain
- 11.2 Thermally Conductive Via Filling Resin Upstream Analysis
 - 11.2.1 Thermally Conductive Via Filling Resin Core Raw Materials
 - 11.2.2 Main Manufacturers of Thermally Conductive Via Filling Resin Core Raw Materials
- 11.3 Midstream Analysis
- 11.4 Downstream Analysis
- 11.5 Thermally Conductive Via Filling Resin Production Mode
- 11.6 Thermally Conductive Via Filling Resin Procurement Model
- 11.7 Thermally Conductive Via Filling Resin Industry Sales Model and Sales Channels
 - 11.7.1 Thermally Conductive Via Filling Resin Sales Model
 - 11.7.2 Thermally Conductive Via Filling Resin Typical Distributors

12 RESEARCH FINDINGS AND CONCLUSION

13 APPENDIX

- 13.1 Methodology
- 13.2 Research Process and Data Source
- 13.3 Disclaimer

List Of Tables

LIST OF TABLES

Table 1. World Thermally Conductive Via Filling Resin Production Value by Region (2021, 2025 and 2032) & (USD Million)

Table 2. World Thermally Conductive Via Filling Resin Production Value by Region (2021-2026) & (USD Million)

Table 3. World Thermally Conductive Via Filling Resin Production Value by Region (2027-2032) & (USD Million)

Table 4. World Thermally Conductive Via Filling Resin Production Value Market Share by Region (2021-2026)

Table 5. World Thermally Conductive Via Filling Resin Production Value Market Share by Region (2027-2032)

Table 6. World Thermally Conductive Via Filling Resin Production by Region (2021-2026) & (kg)

Table 7. World Thermally Conductive Via Filling Resin Production by Region (2027-2032) & (kg)

Table 8. World Thermally Conductive Via Filling Resin Production Market Share by Region (2021-2026)

Table 9. World Thermally Conductive Via Filling Resin Production Market Share by Region (2027-2032)

Table 10. World Thermally Conductive Via Filling Resin Average Price by Region (2021-2026) & (US\$/kg)

Table 11. World Thermally Conductive Via Filling Resin Average Price by Region (2027-2032) & (US\$/kg)

Table 12. Thermally Conductive Via Filling Resin Major Market Trends

Table 13. World Thermally Conductive Via Filling Resin Consumption Growth Rate Forecast by Region (2021 & 2025 & 2032) & (kg)

Table 14. World Thermally Conductive Via Filling Resin Consumption by Region (2021-2026) & (kg)

Table 15. World Thermally Conductive Via Filling Resin Consumption Forecast by Region (2027-2032) & (kg)

Table 16. World Thermally Conductive Via Filling Resin Production Value by Manufacturer (2021-2026) & (USD Million)

Table 17. Production Value Market Share of Key Thermally Conductive Via Filling Resin Producers in 2025

Table 18. World Thermally Conductive Via Filling Resin Production by Manufacturer (2021-2026) & (kg)

Table 19. Production Market Share of Key Thermally Conductive Via Filling Resin Producers in 2025

Table 20. World Thermally Conductive Via Filling Resin Average Price by Manufacturer (2021-2026) & (US\$/kg)

Table 21. Global Thermally Conductive Via Filling Resin Company Evaluation Quadrant

Table 22. World Thermally Conductive Via Filling Resin Industry Rank of Major Manufacturers, Based on Production Value in 2025

Table 23. Head Office and Thermally Conductive Via Filling Resin Production Site of Key Manufacturer

Table 24. Thermally Conductive Via Filling Resin Market: Company Product Type Footprint

Table 25. Thermally Conductive Via Filling Resin Market: Company Product Application Footprint

Table 26. Thermally Conductive Via Filling Resin Competitive Factors

Table 27. Thermally Conductive Via Filling Resin New Entrant and Capacity Expansion Plans

Table 28. Thermally Conductive Via Filling Resin Mergers & Acquisitions Activity

Table 29. United States VS China Thermally Conductive Via Filling Resin Production Value Comparison, (2021 & 2025 & 2032) & (USD Million)

Table 30. United States VS China Thermally Conductive Via Filling Resin Production Comparison, (2021 & 2025 & 2032) & (kg)

Table 31. United States VS China Thermally Conductive Via Filling Resin Consumption Comparison, (2021 & 2025 & 2032) & (kg)

Table 32. United States Based Thermally Conductive Via Filling Resin Manufacturers, Headquarters and Production Site (States, Country)

Table 33. United States Based Manufacturers Thermally Conductive Via Filling Resin Production Value, (2021-2026) & (USD Million)

Table 34. United States Based Manufacturers Thermally Conductive Via Filling Resin Production Value Market Share (2021-2026)

Table 35. United States Based Manufacturers Thermally Conductive Via Filling Resin Production (2021-2026) & (kg)

Table 36. United States Based Manufacturers Thermally Conductive Via Filling Resin Production Market Share (2021-2026)

Table 37. China Based Thermally Conductive Via Filling Resin Manufacturers, Headquarters and Production Site (Province, Country)

Table 38. China Based Manufacturers Thermally Conductive Via Filling Resin Production Value, (2021-2026) & (USD Million)

Table 39. China Based Manufacturers Thermally Conductive Via Filling Resin Production Value Market Share (2021-2026)

Table 40. China Based Manufacturers Thermally Conductive Via Filling Resin Production, (2021-2026) & (kg)

Table 41. China Based Manufacturers Thermally Conductive Via Filling Resin Production Market Share (2021-2026)

Table 42. Rest of World Based Thermally Conductive Via Filling Resin Manufacturers, Headquarters and Production Site (State, Country)

Table 43. Rest of World Based Manufacturers Thermally Conductive Via Filling Resin Production Value, (2021-2026) & (USD Million)

Table 44. Rest of World Based Manufacturers Thermally Conductive Via Filling Resin Production Value Market Share (2021-2026)

Table 45. Rest of World Based Manufacturers Thermally Conductive Via Filling Resin Production, (2021-2026) & (kg)

Table 46. Rest of World Based Manufacturers Thermally Conductive Via Filling Resin Production Market Share (2021-2026)

Table 47. World Thermally Conductive Via Filling Resin Production Value by Type, (USD Million), 2021 & 2025 & 2032

Table 48. World Thermally Conductive Via Filling Resin Production by Type (2021-2026) & (kg)

Table 49. World Thermally Conductive Via Filling Resin Production by Type (2027-2032) & (kg)

Table 50. World Thermally Conductive Via Filling Resin Production Value by Type (2021-2026) & (USD Million)

Table 51. World Thermally Conductive Via Filling Resin Production Value by Type (2027-2032) & (USD Million)

Table 52. World Thermally Conductive Via Filling Resin Average Price by Type (2021-2026) & (US\$/kg)

Table 53. World Thermally Conductive Via Filling Resin Average Price by Type (2027-2032) & (US\$/kg)

Table 54. World Thermally Conductive Via Filling Resin Production Value by Thermal Conductivity, (USD Million), 2021 & 2025 & 2032

Table 55. World Thermally Conductive Via Filling Resin Production by Thermal Conductivity (2021-2026) & (kg)

Table 56. World Thermally Conductive Via Filling Resin Production by Thermal Conductivity (2027-2032) & (kg)

Table 57. World Thermally Conductive Via Filling Resin Production Value by Thermal Conductivity (2021-2026) & (USD Million)

Table 58. World Thermally Conductive Via Filling Resin Production Value by Thermal Conductivity (2027-2032) & (USD Million)

Table 59. World Thermally Conductive Via Filling Resin Average Price by Thermal

Conductivity (2021-2026) & (US\$/kg)

Table 60. World Thermally Conductive Via Filling Resin Average Price by Thermal Conductivity (2027-2032) & (US\$/kg)

Table 61. World Thermally Conductive Via Filling Resin Production Value by Curing System, (USD Million), 2021 & 2025 & 2032

Table 62. World Thermally Conductive Via Filling Resin Production by Curing System (2021-2026) & (kg)

Table 63. World Thermally Conductive Via Filling Resin Production by Curing System (2027-2032) & (kg)

Table 64. World Thermally Conductive Via Filling Resin Production Value by Curing System (2021-2026) & (USD Million)

Table 65. World Thermally Conductive Via Filling Resin Production Value by Curing System (2027-2032) & (USD Million)

Table 66. World Thermally Conductive Via Filling Resin Average Price by Curing System (2021-2026) & (US\$/kg)

Table 67. World Thermally Conductive Via Filling Resin Average Price by Curing System (2027-2032) & (US\$/kg)

Table 68. World Thermally Conductive Via Filling Resin Production Value by Via Filling Process, (USD Million), 2021 & 2025 & 2032

Table 69. World Thermally Conductive Via Filling Resin Production by Via Filling Process (2021-2026) & (kg)

Table 70. World Thermally Conductive Via Filling Resin Production by Via Filling Process (2027-2032) & (kg)

Table 71. World Thermally Conductive Via Filling Resin Production Value by Via Filling Process (2021-2026) & (USD Million)

Table 72. World Thermally Conductive Via Filling Resin Production Value by Via Filling Process (2027-2032) & (USD Million)

Table 73. World Thermally Conductive Via Filling Resin Average Price by Via Filling Process (2021-2026) & (US\$/kg)

Table 74. World Thermally Conductive Via Filling Resin Average Price by Via Filling Process (2027-2032) & (US\$/kg)

Table 75. World Thermally Conductive Via Filling Resin Production Value by Application, (USD Million), 2021 & 2025 & 2032

Table 76. World Thermally Conductive Via Filling Resin Production by Application (2021-2026) & (kg)

Table 77. World Thermally Conductive Via Filling Resin Production by Application (2027-2032) & (kg)

Table 78. World Thermally Conductive Via Filling Resin Production Value by Application (2021-2026) & (USD Million)

Table 79. World Thermally Conductive Via Filling Resin Production Value by Application (2027-2032) & (USD Million)

Table 80. World Thermally Conductive Via Filling Resin Average Price by Application (2021-2026) & (US\$/kg)

Table 81. World Thermally Conductive Via Filling Resin Average Price by Application (2027-2032) & (US\$/kg)

Table 82. Baroy New Materials Basic Information, Manufacturing Base and Competitors

Table 83. Baroy New Materials Major Business

Table 84. Baroy New Materials Thermally Conductive Via Filling Resin Product and Services

Table 85. Baroy New Materials Thermally Conductive Via Filling Resin Production (kg), Price (US\$/kg), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 86. Baroy New Materials Recent Developments/Updates

Table 87. Baroy New Materials Competitive Strengths & Weaknesses

Table 88. Taiyo America Basic Information, Manufacturing Base and Competitors

Table 89. Taiyo America Major Business

Table 90. Taiyo America Thermally Conductive Via Filling Resin Product and Services

Table 91. Taiyo America Thermally Conductive Via Filling Resin Production (kg), Price (US\$/kg), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 92. Taiyo America Recent Developments/Updates

Table 93. Taiyo America Competitive Strengths & Weaknesses

Table 94. Tatsuta Electric Wire & Cable Basic Information, Manufacturing Base and Competitors

Table 95. Tatsuta Electric Wire & Cable Major Business

Table 96. Tatsuta Electric Wire & Cable Thermally Conductive Via Filling Resin Product and Services

Table 97. Tatsuta Electric Wire & Cable Thermally Conductive Via Filling Resin Production (kg), Price (US\$/kg), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 98. Tatsuta Electric Wire & Cable Recent Developments/Updates

Table 99. Tatsuta Electric Wire & Cable Competitive Strengths & Weaknesses

Table 100. Electra Polymers Basic Information, Manufacturing Base and Competitors

Table 101. Electra Polymers Major Business

Table 102. Electra Polymers Thermally Conductive Via Filling Resin Product and Services

Table 103. Electra Polymers Thermally Conductive Via Filling Resin Production (kg), Price (US\$/kg), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 104. Electra Polymers Recent Developments/Updates
Table 105. Electra Polymers Competitive Strengths & Weaknesses
Table 106. Transene Basic Information, Manufacturing Base and Competitors
Table 107. Transene Major Business
Table 108. Transene Thermally Conductive Via Filling Resin Product and Services
Table 109. Transene Thermally Conductive Via Filling Resin Production (kg), Price (US\$/kg), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 110. Transene Recent Developments/Updates
Table 111. Transene Competitive Strengths & Weaknesses
Table 112. Peters Basic Information, Manufacturing Base and Competitors
Table 113. Peters Major Business
Table 114. Peters Thermally Conductive Via Filling Resin Product and Services
Table 115. Peters Thermally Conductive Via Filling Resin Production (kg), Price (US\$/kg), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 116. Peters Recent Developments/Updates
Table 117. Peters Competitive Strengths & Weaknesses
Table 118. San-Ei Kagaku Basic Information, Manufacturing Base and Competitors
Table 119. San-Ei Kagaku Major Business
Table 120. San-Ei Kagaku Thermally Conductive Via Filling Resin Product and Services
Table 121. San-Ei Kagaku Thermally Conductive Via Filling Resin Production (kg), Price (US\$/kg), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 122. San-Ei Kagaku Recent Developments/Updates
Table 123. San-Ei Kagaku Competitive Strengths & Weaknesses
Table 124. Micromax Basic Information, Manufacturing Base and Competitors
Table 125. Micromax Major Business
Table 126. Micromax Thermally Conductive Via Filling Resin Product and Services
Table 127. Micromax Thermally Conductive Via Filling Resin Production (kg), Price (US\$/kg), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
Table 128. Micromax Recent Developments/Updates
Table 129. Micromax Competitive Strengths & Weaknesses
Table 130. Global Key Players of Thermally Conductive Via Filling Resin Upstream (Raw Materials)
Table 131. Global Thermally Conductive Via Filling Resin Typical Customers
Table 132. Thermally Conductive Via Filling Resin Typical Distributors

List Of Figures

LIST OF FIGURES

Figure 1. Thermally Conductive Via Filling Resin Picture

Figure 2. World Thermally Conductive Via Filling Resin Production Value: 2021 & 2025 & 2032, (USD Million)

Figure 3. World Thermally Conductive Via Filling Resin Production Value and Forecast (2021-2032) & (USD Million)

Figure 4. World Thermally Conductive Via Filling Resin Production (2021-2032) & (kg)

Figure 5. World Thermally Conductive Via Filling Resin Average Price (2021-2032) & (US\$/kg)

Figure 6. World Thermally Conductive Via Filling Resin Production Value Market Share by Region (2021-2032)

Figure 7. World Thermally Conductive Via Filling Resin Production Market Share by Region (2021-2032)

Figure 8. North America Thermally Conductive Via Filling Resin Production (2021-2032) & (kg)

Figure 9. Europe Thermally Conductive Via Filling Resin Production (2021-2032) & (kg)

Figure 10. Japan Thermally Conductive Via Filling Resin Production (2021-2032) & (kg)

Figure 11. Thermally Conductive Via Filling Resin Market Drivers

Figure 12. Factors Affecting Demand

Figure 13. World Thermally Conductive Via Filling Resin Consumption (2021-2032) & (kg)

Figure 14. World Thermally Conductive Via Filling Resin Consumption Market Share by Region (2021-2032)

Figure 15. United States Thermally Conductive Via Filling Resin Consumption (2021-2032) & (kg)

Figure 16. China Thermally Conductive Via Filling Resin Consumption (2021-2032) & (kg)

Figure 17. Europe Thermally Conductive Via Filling Resin Consumption (2021-2032) & (kg)

Figure 18. Japan Thermally Conductive Via Filling Resin Consumption (2021-2032) & (kg)

Figure 19. South Korea Thermally Conductive Via Filling Resin Consumption (2021-2032) & (kg)

Figure 20. ASEAN Thermally Conductive Via Filling Resin Consumption (2021-2032) & (kg)

Figure 21. India Thermally Conductive Via Filling Resin Consumption (2021-2032) &

(kg)

Figure 22. Producer Shipments of Thermally Conductive Via Filling Resin by Manufacturer Revenue (\$MM) and Market Share (%): 2025

Figure 23. Global Four-firm Concentration Ratios (CR4) for Thermally Conductive Via Filling Resin Markets in 2025

Figure 24. Global Four-firm Concentration Ratios (CR8) for Thermally Conductive Via Filling Resin Markets in 2025

Figure 25. United States VS China: Thermally Conductive Via Filling Resin Production Value Market Share Comparison (2021 & 2025 & 2032)

Figure 26. United States VS China: Thermally Conductive Via Filling Resin Production Market Share Comparison (2021 & 2025 & 2032)

Figure 27. United States VS China: Thermally Conductive Via Filling Resin Consumption Market Share Comparison (2021 & 2025 & 2032)

Figure 28. United States Based Manufacturers Thermally Conductive Via Filling Resin Production Market Share 2025

Figure 29. China Based Manufacturers Thermally Conductive Via Filling Resin Production Market Share 2025

Figure 30. Rest of World Based Manufacturers Thermally Conductive Via Filling Resin Production Market Share 2025

Figure 31. World Thermally Conductive Via Filling Resin Production Value by Type, (USD Million), 2021 & 2025 & 2032

Figure 32. World Thermally Conductive Via Filling Resin Production Value Market Share by Type in 2025

Figure 33. Electrically Insulating Thermal Resin

Figure 34. Conductive Copper-Filled Resin

Figure 35. Conductive Silver-Filled Resin

Figure 36. Hybrid Metal-Filled Resin

Figure 37. Other

Figure 38. World Thermally Conductive Via Filling Resin Production Market Share by Type (2021-2032)

Figure 39. World Thermally Conductive Via Filling Resin Production Value Market Share by Type (2021-2032)

Figure 40. World Thermally Conductive Via Filling Resin Average Price by Type (2021-2032) & (US\$/kg)

Figure 41. World Thermally Conductive Via Filling Resin Production Value by Thermal Conductivity, (USD Million), 2021 & 2025 & 2032

Figure 42. World Thermally Conductive Via Filling Resin Production Value Market Share by Thermal Conductivity in 2025

Figure 43. Low Conductivity (10 W/m²K)

Figure 47. Other

Figure 48. World Thermally Conductive Via Filling Resin Production Market Share by Thermal Conductivity (2021-2032)

Figure 49. World Thermally Conductive Via Filling Resin Production Value Market Share by Thermal Conductivity (2021-2032)

Figure 50. World Thermally Conductive Via Filling Resin Average Price by Thermal Conductivity (2021-2032) & (US\$/kg)

Figure 51. World Thermally Conductive Via Filling Resin Production Value by Curing System, (USD Million), 2021 & 2025 & 2032

Figure 52. World Thermally Conductive Via Filling Resin Production Value Market Share by Curing System in 2025

Figure 53. One-Component Thermal Cure

Figure 54. Two-Component Thermal Cure

Figure 55. Photoimageable Cure

Figure 56. Low-Temperature Sintering

Figure 57. Other

Figure 58. World Thermally Conductive Via Filling Resin Production Market Share by Curing System (2021-2032)

Figure 59. World Thermally Conductive Via Filling Resin Production Value Market Share by Curing System (2021-2032)

Figure 60. World Thermally Conductive Via Filling Resin Average Price by Curing System (2021-2032) & (US\$/kg)

Figure 61. World Thermally Conductive Via Filling Resin Production Value by Via Filling Process, (USD Million), 2021 & 2025 & 2032

Figure 62. World Thermally Conductive Via Filling Resin Production Value Market Share by Via Filling Process in 2025

Figure 63. Vacuum Via Filling

Figure 64. Screen Printing Filling

Figure 65. Stencil Printing Filling

Figure 66. Plated Cap Filling

Figure 67. Other

Figure 68. World Thermally Conductive Via Filling Resin Production Market Share by Via Filling Process (2021-2032)

Figure 69. World Thermally Conductive Via Filling Resin Production Value Market Share by Via Filling Process (2021-2032)

Figure 70. World Thermally Conductive Via Filling Resin Average Price by Via Filling Process (2021-2032) & (US\$/kg)

Figure 71. World Thermally Conductive Via Filling Resin Production Value by Application, (USD Million), 2021 & 2025 & 2032

Figure 72. World Thermally Conductive Via Filling Resin Production Value Market Share by Application in 2025

Figure 73. High-Power PCB Fabrication

Figure 74. 5G Communication Board Fabrication

Figure 75. Automotive Power Electronics PCB

Figure 76. Semiconductor Package Substrate

Figure 77. LED and Lighting PCB

Figure 78. Aerospace and High-Reliability PCB

Figure 79. Industrial Control PCB

Figure 80. World Thermally Conductive Via Filling Resin Production Market Share by Application (2021-2032)

Figure 81. World Thermally Conductive Via Filling Resin Production Value Market Share by Application (2021-2032)

Figure 82. World Thermally Conductive Via Filling Resin Average Price by Application (2021-2032) & (US\$/kg)

Figure 83. Thermally Conductive Via Filling Resin Industry Chain

Figure 84. Thermally Conductive Via Filling Resin Procurement Model

Figure 85. Thermally Conductive Via Filling Resin Sales Model

Figure 86. Thermally Conductive Via Filling Resin Sales Channels, Direct Sales, and Distribution

Figure 87. Methodology

Figure 88. Research Process and Data Source

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