

Global Non-Conductive Via Filling Resin Market Growth 2026-2032

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Abstracts

The global Non-Conductive Via Filling Resin market size is predicted to grow from US\$ 80.22 million in 2025 to US\$ 142 million in 2032; it is expected to grow at a CAGR of 8.5% from 2026 to 2032.

Non-conductive via filling resin is an insulating via-filling/plugging resin paste used in PCB and IC package substrate manufacturing. It is typically based on epoxy or modified resin systems and is used to fill plated through holes, blind/buried vias, and via-in-pad structures. After curing, grinding, and planarization, copper capping or subsequent circuit fabrication can be carried out. The product's gross margin is approximately 42%.

Demand is mainly driven by high-density interconnect boards, package substrates, server and communication boards, automotive electronics, and high-frequency/high-speed PCBs. As BGA/CSP packaging, any-layer HDI, via-in-pad, and stacked microvia designs increase, conventional solder mask via covering can no longer meet requirements for surface flatness, via fill completeness, and reflow reliability. Non-conductive resin via filling is gradually becoming a standard process for mid- to high-end PCB manufacturers.

On the supply side, Japanese, European, and Chinese manufacturers all participate. Overseas brands still have strong customer certification advantages in high Tg, low CTE, low water absorption, and copper capping reliability, while Chinese manufacturers are replacing imports more quickly in local delivery, vacuum via filling equipment compatibility, and mid-range HDI applications. Buyers pay closer attention to curing shrinkage, grindability, low diffusion, thermal shock resistance, dielectric properties, and adhesion to copper surfaces/substrates.

The market size is smaller than that of general solder mask ink, but unit price and technical barriers are significantly higher. Future growth will come from AI servers, high-end smartphones, automotive domain controllers, millimeter-wave radar, and advanced package substrates, which create stronger demand for highly reliable via filling materials. Limiting factors include long customer certification cycles, significant process window differences among board manufacturers, and substitution by copper via filling or improved solder mask plugging solutions in some applications.

LP Information, Inc. (LPI) ' newest research report, the "Non-Conductive Via Filling Resin Industry Forecast" looks at past sales and reviews total world Non-Conductive Via Filling Resin sales in 2025, providing a comprehensive analysis by region and market sector of projected Non-Conductive Via Filling Resin sales for 2026 through 2032. With Non-Conductive Via Filling Resin sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world Non-Conductive Via Filling Resin industry.

This Insight Report provides a comprehensive analysis of the global Non-Conductive Via Filling Resin landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and M&A activity. This report also analyzes the strategies of leading global companies with a focus on Non-Conductive Via Filling Resin portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Non-Conductive Via Filling Resin market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Non-Conductive Via Filling Resin and breaks down the forecast by Type, by Application, geography, and market size to highlight emerging pockets of opportunity. With a transparent methodology based on hundreds of bottom-up qualitative and quantitative market inputs, this study forecast offers a highly nuanced view of the current state and future trajectory in the global Non-Conductive Via Filling Resin.

This report presents a comprehensive overview, market shares, and growth opportunities of Non-Conductive Via Filling Resin market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

Thermally Curable Epoxy

Photoimageable Filler

UV-Thermal Dual Cure

Low-Temperature Cure

Other Systems

Segmentation by Performance Grade:

Standard HDI Grade

High Tg Low CTE Grade

Low Dk Low Df Grade

Package Substrate Grade

Metal Substrate Grade

Other Grades

Segmentation by Via Structure:

Through-Hole Filling

Blind and Buried Via Filling

Via-in-Pad Filling

Slot and Trench Filling

Other Structures

Segmentation by Process Compatibility:

Vacuum Filling Grade

Screen Printing Grade

Stencil Printing Grade

Automatic Filling Grade

Selective Plugging Grade

Other Process Grade

Segmentation by Application:

HDI PCB Manufacturing

IC Package Substrate Manufacturing

Multilayer PCB Manufacturing

High-Frequency PCB Manufacturing

Heavy Copper PCB Manufacturing

Metal Core PCB Manufacturing

Automotive Electronics PCB Manufacturing

This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

APAC

China

Japan

Korea

Southeast Asia

India

Australia

Europe

Germany

France

UK

Italy

Russia

Middle East & Africa

Egypt

South Africa

Israel

Turkey

GCC Countries

The below companies that are profiled have been selected based on inputs gathered from primary experts and analysing the company's coverage, product portfolio, its market penetration.

Taiyo Ink Manufacturing

San-Ei Kagaku

Lackwerke Peters

Electra Polymers

Shenzhen Baroy New Materials

Shenzhen Sumitomo Electronic Materials

SetSense

Guangdong Kotti New Materials

Key Questions Addressed in this Report

What is the 10-year outlook for the global Non-Conductive Via Filling Resin market?

What factors are driving Non-Conductive Via Filling Resin market growth, globally and by region?

Which technologies are poised for the fastest growth by market and region?

How do Non-Conductive Via Filling Resin market opportunities vary by end market size?

How does Non-Conductive Via Filling Resin break out by Type, by Application?

Contents

1 SCOPE OF THE REPORT

- 1.1 Market Introduction
- 1.2 Years Considered
- 1.3 Research Objectives
- 1.4 Market Research Methodology
- 1.5 Research Process and Data Source
- 1.6 Economic Indicators
- 1.7 Currency Considered
- 1.8 Market Estimation Caveats

2 EXECUTIVE SUMMARY

2.1 World Market Overview

- 2.1.1 Global Non-Conductive Via Filling Resin Annual Sales 2021-2032
- 2.1.2 World Current & Future Analysis for Non-Conductive Via Filling Resin by Geographic Region, 2021, 2025 & 2032
- 2.1.3 World Current & Future Analysis for Non-Conductive Via Filling Resin by Country/Region, 2021, 2025 & 2032
- 2.2 Non-Conductive Via Filling Resin Segment by Type
 - 2.2.1 Thermally Curable Epoxy
 - 2.2.2 Photoimageable Filler
 - 2.2.3 UV-Thermal Dual Cure
 - 2.2.4 Low-Temperature Cure
 - 2.2.5 Other Systems
 - 2.2.6 Non-Conductive Via Filling Resin Sales by Type
 - 2.2.6.1 Global Non-Conductive Via Filling Resin Sales Market Share by Type (2021-2026)
 - 2.2.6.2 Global Non-Conductive Via Filling Resin Revenue and Market Share by Type (2021-2026)
 - 2.2.6.3 Global Non-Conductive Via Filling Resin Sale Price by Type (2021-2026)
- 2.3 Non-Conductive Via Filling Resin Segment by Performance Grade
 - 2.3.1 Standard HDI Grade
 - 2.3.2 High Tg Low CTE Grade
 - 2.3.3 Low Dk Low Df Grade
 - 2.3.4 Package Substrate Grade
 - 2.3.5 Metal Substrate Grade

2.3.6 Other Grades

2.3.7 Non-Conductive Via Filling Resin Sales by Performance Grade

2.3.7.1 Global Non-Conductive Via Filling Resin Sales Market Share by Performance Grade (2021-2026)

2.3.7.2 Global Non-Conductive Via Filling Resin Revenue and Market Share by Performance Grade (2021-2026)

2.3.7.3 Global Non-Conductive Via Filling Resin Sale Price by Performance Grade (2021-2026)

2.4 Non-Conductive Via Filling Resin Segment by Via Structure

2.4.1 Through-Hole Filling

2.4.2 Blind and Buried Via Filling

2.4.3 Via-in-Pad Filling

2.4.4 Slot and Trench Filling

2.4.5 Other Structures

2.4.6 Non-Conductive Via Filling Resin Sales by Via Structure

2.4.6.1 Global Non-Conductive Via Filling Resin Sales Market Share by Via Structure (2021-2026)

2.4.6.2 Global Non-Conductive Via Filling Resin Revenue and Market Share by Via Structure (2021-2026)

2.4.6.3 Global Non-Conductive Via Filling Resin Sale Price by Via Structure (2021-2026)

2.5 Non-Conductive Via Filling Resin Segment by Process Compatibility

2.5.1 Vacuum Filling Grade

2.5.2 Screen Printing Grade

2.5.3 Stencil Printing Grade

2.5.4 Automatic Filling Grade

2.5.5 Selective Plugging Grade

2.5.6 Other Process Grade

2.5.7 Non-Conductive Via Filling Resin Sales by Process Compatibility

2.5.7.1 Global Non-Conductive Via Filling Resin Sales Market Share by Process Compatibility (2021-2026)

2.5.7.2 Global Non-Conductive Via Filling Resin Revenue and Market Share by Process Compatibility (2021-2026)

2.5.7.3 Global Non-Conductive Via Filling Resin Sale Price by Process Compatibility (2021-2026)

2.6 Non-Conductive Via Filling Resin Segment by Application

2.6.1 HDI PCB Manufacturing

2.6.2 IC Package Substrate Manufacturing

2.6.3 Multilayer PCB Manufacturing

2.6.4 High-Frequency PCB Manufacturing

2.6.5 Heavy Copper PCB Manufacturing

2.6.6 Metal Core PCB Manufacturing

2.6.7 Automotive Electronics PCB Manufacturing

2.6.8 Non-Conductive Via Filling Resin Sales by Application

2.6.8.1 Global Non-Conductive Via Filling Resin Sale Market Share by Application
(2021-2026)

2.6.8.2 Global Non-Conductive Via Filling Resin Revenue and Market Share by
Application (2021-2026)

2.6.8.3 Global Non-Conductive Via Filling Resin Sale Price by Application
(2021-2026)

3 GLOBAL BY COMPANY

3.1 Global Non-Conductive Via Filling Resin Breakdown Data by Company

3.1.1 Global Non-Conductive Via Filling Resin Annual Sales by Company (2021-2026)

3.1.2 Global Non-Conductive Via Filling Resin Sales Market Share by Company
(2021-2026)

3.2 Global Non-Conductive Via Filling Resin Annual Revenue by Company (2021-2026)

3.2.1 Global Non-Conductive Via Filling Resin Revenue by Company (2021-2026)

3.2.2 Global Non-Conductive Via Filling Resin Revenue Market Share by Company
(2021-2026)

3.3 Global Non-Conductive Via Filling Resin Sale Price by Company

3.4 Key Manufacturers Non-Conductive Via Filling Resin Producing Area Distribution,
Sales Area, Product Type

3.4.1 Key Manufacturers Non-Conductive Via Filling Resin Product Location
Distribution

3.4.2 Players Non-Conductive Via Filling Resin Products Offered

3.5 Market Concentration Rate Analysis

3.5.1 Competition Landscape Analysis

3.5.2 Concentration Ratio (CR3, CR5 and CR10) & (2024-2026)

3.6 New Products and Potential Entrants

3.7 Market M&A Activity & Strategy

4 WORLD HISTORIC REVIEW FOR NON-CONDUCTIVE VIA FILLING RESIN BY GEOGRAPHIC REGION

4.1 World Historic Non-Conductive Via Filling Resin Market Size by Geographic Region
(2021-2026)

4.1.1 Global Non-Conductive Via Filling Resin Annual Sales by Geographic Region (2021-2026)

4.1.2 Global Non-Conductive Via Filling Resin Annual Revenue by Geographic Region (2021-2026)

4.2 World Historic Non-Conductive Via Filling Resin Market Size by Country/Region (2021-2026)

4.2.1 Global Non-Conductive Via Filling Resin Annual Sales by Country/Region (2021-2026)

4.2.2 Global Non-Conductive Via Filling Resin Annual Revenue by Country/Region (2021-2026)

4.3 Americas Non-Conductive Via Filling Resin Sales Growth

4.4 APAC Non-Conductive Via Filling Resin Sales Growth

4.5 Europe Non-Conductive Via Filling Resin Sales Growth

4.6 Middle East & Africa Non-Conductive Via Filling Resin Sales Growth

5 AMERICAS

5.1 Americas Non-Conductive Via Filling Resin Sales by Country

5.1.1 Americas Non-Conductive Via Filling Resin Sales by Country (2021-2026)

5.1.2 Americas Non-Conductive Via Filling Resin Revenue by Country (2021-2026)

5.2 Americas Non-Conductive Via Filling Resin Sales by Type (2021-2026)

5.3 Americas Non-Conductive Via Filling Resin Sales by Application (2021-2026)

5.4 United States

5.5 Canada

5.6 Mexico

5.7 Brazil

6 APAC

6.1 APAC Non-Conductive Via Filling Resin Sales by Region

6.1.1 APAC Non-Conductive Via Filling Resin Sales by Region (2021-2026)

6.1.2 APAC Non-Conductive Via Filling Resin Revenue by Region (2021-2026)

6.2 APAC Non-Conductive Via Filling Resin Sales by Type (2021-2026)

6.3 APAC Non-Conductive Via Filling Resin Sales by Application (2021-2026)

6.4 China

6.5 Japan

6.6 South Korea

6.7 Southeast Asia

6.8 India

6.9 Australia

6.10 China Taiwan

7 EUROPE

7.1 Europe Non-Conductive Via Filling Resin by Country

7.1.1 Europe Non-Conductive Via Filling Resin Sales by Country (2021-2026)

7.1.2 Europe Non-Conductive Via Filling Resin Revenue by Country (2021-2026)

7.2 Europe Non-Conductive Via Filling Resin Sales by Type (2021-2026)

7.3 Europe Non-Conductive Via Filling Resin Sales by Application (2021-2026)

7.4 Germany

7.5 France

7.6 UK

7.7 Italy

7.8 Russia

8 MIDDLE EAST & AFRICA

8.1 Middle East & Africa Non-Conductive Via Filling Resin by Country

8.1.1 Middle East & Africa Non-Conductive Via Filling Resin Sales by Country (2021-2026)

8.1.2 Middle East & Africa Non-Conductive Via Filling Resin Revenue by Country (2021-2026)

8.2 Middle East & Africa Non-Conductive Via Filling Resin Sales by Type (2021-2026)

8.3 Middle East & Africa Non-Conductive Via Filling Resin Sales by Application (2021-2026)

8.4 Egypt

8.5 South Africa

8.6 Israel

8.7 Turkey

8.8 GCC Countries

9 MARKET DRIVERS, CHALLENGES AND TRENDS

9.1 Market Drivers & Growth Opportunities

9.2 Market Challenges & Risks

9.3 Industry Trends

10 MANUFACTURING COST STRUCTURE ANALYSIS

10.1 Raw Material and Suppliers

10.2 Manufacturing Cost Structure Analysis of Non-Conductive Via Filling Resin

10.3 Manufacturing Process Analysis of Non-Conductive Via Filling Resin

10.4 Industry Chain Structure of Non-Conductive Via Filling Resin

11 MARKETING, DISTRIBUTORS AND CUSTOMER

11.1 Sales Channel

11.1.1 Direct Channels

11.1.2 Indirect Channels

11.2 Non-Conductive Via Filling Resin Distributors

11.3 Non-Conductive Via Filling Resin Customer

12 WORLD FORECAST REVIEW FOR NON-CONDUCTIVE VIA FILLING RESIN BY GEOGRAPHIC REGION

12.1 Global Non-Conductive Via Filling Resin Market Size Forecast by Region

12.1.1 Global Non-Conductive Via Filling Resin Forecast by Region (2027-2032)

12.1.2 Global Non-Conductive Via Filling Resin Annual Revenue Forecast by Region (2027-2032)

12.2 Americas Forecast by Country (2027-2032)

12.3 APAC Forecast by Region (2027-2032)

12.4 Europe Forecast by Country (2027-2032)

12.5 Middle East & Africa Forecast by Country (2027-2032)

12.6 Global Non-Conductive Via Filling Resin Forecast by Type (2027-2032)

12.7 Global Non-Conductive Via Filling Resin Forecast by Application (2027-2032)

13 KEY PLAYERS ANALYSIS

13.1 Taiyo Ink Manufacturing

13.1.1 Taiyo Ink Manufacturing Company Information

13.1.2 Taiyo Ink Manufacturing Non-Conductive Via Filling Resin Product Portfolios and Specifications

13.1.3 Taiyo Ink Manufacturing Non-Conductive Via Filling Resin Sales, Revenue, Price and Gross Margin (2021-2026)

13.1.4 Taiyo Ink Manufacturing Main Business Overview

13.1.5 Taiyo Ink Manufacturing Latest Developments

13.2 San-Ei Kagaku

- 13.2.1 San-Ei Kagaku Company Information
- 13.2.2 San-Ei Kagaku Non-Conductive Via Filling Resin Product Portfolios and Specifications
- 13.2.3 San-Ei Kagaku Non-Conductive Via Filling Resin Sales, Revenue, Price and Gross Margin (2021-2026)
- 13.2.4 San-Ei Kagaku Main Business Overview
- 13.2.5 San-Ei Kagaku Latest Developments
- 13.3 Lackwerke Peters
- 13.3.1 Lackwerke Peters Company Information
- 13.3.2 Lackwerke Peters Non-Conductive Via Filling Resin Product Portfolios and Specifications
- 13.3.3 Lackwerke Peters Non-Conductive Via Filling Resin Sales, Revenue, Price and Gross Margin (2021-2026)
- 13.3.4 Lackwerke Peters Main Business Overview
- 13.3.5 Lackwerke Peters Latest Developments
- 13.4 Electra Polymers
- 13.4.1 Electra Polymers Company Information
- 13.4.2 Electra Polymers Non-Conductive Via Filling Resin Product Portfolios and Specifications
- 13.4.3 Electra Polymers Non-Conductive Via Filling Resin Sales, Revenue, Price and Gross Margin (2021-2026)
- 13.4.4 Electra Polymers Main Business Overview
- 13.4.5 Electra Polymers Latest Developments
- 13.5 Shenzhen Baroy New Materials
- 13.5.1 Shenzhen Baroy New Materials Company Information
- 13.5.2 Shenzhen Baroy New Materials Non-Conductive Via Filling Resin Product Portfolios and Specifications
- 13.5.3 Shenzhen Baroy New Materials Non-Conductive Via Filling Resin Sales, Revenue, Price and Gross Margin (2021-2026)
- 13.5.4 Shenzhen Baroy New Materials Main Business Overview
- 13.5.5 Shenzhen Baroy New Materials Latest Developments
- 13.6 Shenzhen Sumitomo Electronic Materials
- 13.6.1 Shenzhen Sumitomo Electronic Materials Company Information
- 13.6.2 Shenzhen Sumitomo Electronic Materials Non-Conductive Via Filling Resin Product Portfolios and Specifications
- 13.6.3 Shenzhen Sumitomo Electronic Materials Non-Conductive Via Filling Resin Sales, Revenue, Price and Gross Margin (2021-2026)
- 13.6.4 Shenzhen Sumitomo Electronic Materials Main Business Overview
- 13.6.5 Shenzhen Sumitomo Electronic Materials Latest Developments

13.7 SetSense

13.7.1 SetSense Company Information

13.7.2 SetSense Non-Conductive Via Filling Resin Product Portfolios and Specifications

13.7.3 SetSense Non-Conductive Via Filling Resin Sales, Revenue, Price and Gross Margin (2021-2026)

13.7.4 SetSense Main Business Overview

13.7.5 SetSense Latest Developments

13.8 Guangdong Kotti New Materials

13.8.1 Guangdong Kotti New Materials Company Information

13.8.2 Guangdong Kotti New Materials Non-Conductive Via Filling Resin Product Portfolios and Specifications

13.8.3 Guangdong Kotti New Materials Non-Conductive Via Filling Resin Sales, Revenue, Price and Gross Margin (2021-2026)

13.8.4 Guangdong Kotti New Materials Main Business Overview

13.8.5 Guangdong Kotti New Materials Latest Developments

14 RESEARCH FINDINGS AND CONCLUSION

List Of Tables

LIST OF TABLES

Table 1. Non-Conductive Via Filling Resin Annual Sales CAGR by Geographic Region (2021, 2025 & 2032) & (\$ millions)

Table 2. Non-Conductive Via Filling Resin Annual Sales CAGR by Country/Region (2021, 2025 & 2032) & (\$ millions)

Table 3. Major Players of Thermally Curable Epoxy

Table 4. Major Players of Photoimageable Filler

Table 5. Major Players of UV-Thermal Dual Cure

Table 6. Major Players of Low-Temperature Cure

Table 7. Major Players of Other Systems

Table 8. Global Non-Conductive Via Filling Resin Sales by Type (2021-2026) & (kg)

Table 9. Global Non-Conductive Via Filling Resin Sales Market Share by Type (2021-2026)

Table 10. Global Non-Conductive Via Filling Resin Revenue by Type (2021-2026) & (\$ million)

Table 11. Global Non-Conductive Via Filling Resin Revenue Market Share by Type (2021-2026)

Table 12. Global Non-Conductive Via Filling Resin Sale Price by Type (2021-2026) & (US\$/kg)

Table 13. Major Players of Standard HDI Grade

Table 14. Major Players of High Tg Low CTE Grade

Table 15. Major Players of Low Dk Low Df Grade

Table 16. Major Players of Package Substrate Grade

Table 17. Major Players of Metal Substrate Grade

Table 18. Major Players of Other Grades

Table 19. Global Non-Conductive Via Filling Resin Sales by Performance Grade (2021-2026) & (kg)

Table 20. Global Non-Conductive Via Filling Resin Sales Market Share by Performance Grade (2021-2026)

Table 21. Global Non-Conductive Via Filling Resin Revenue by Performance Grade (2021-2026) & (\$ million)

Table 22. Global Non-Conductive Via Filling Resin Revenue Market Share by Performance Grade (2021-2026)

Table 23. Global Non-Conductive Via Filling Resin Sale Price by Performance Grade (2021-2026) & (US\$/kg)

Table 24. Major Players of Through-Hole Filling

Table 25. Major Players of Blind and Buried Via Filling
Table 26. Major Players of Via-in-Pad Filling
Table 27. Major Players of Slot and Trench Filling
Table 28. Major Players of Other Structures
Table 29. Global Non-Conductive Via Filling Resin Sales by Via Structure (2021-2026) & (kg)
Table 30. Global Non-Conductive Via Filling Resin Sales Market Share by Via Structure (2021-2026)
Table 31. Global Non-Conductive Via Filling Resin Revenue by Via Structure (2021-2026) & (\$ million)
Table 32. Global Non-Conductive Via Filling Resin Revenue Market Share by Via Structure (2021-2026)
Table 33. Global Non-Conductive Via Filling Resin Sale Price by Via Structure (2021-2026) & (US\$/kg)
Table 34. Major Players of Vacuum Filling Grade
Table 35. Major Players of Screen Printing Grade
Table 36. Major Players of Stencil Printing Grade
Table 37. Major Players of Automatic Filling Grade
Table 38. Major Players of Selective Plugging Grade
Table 39. Major Players of Other Process Grade
Table 40. Global Non-Conductive Via Filling Resin Sales by Process Compatibility (2021-2026) & (kg)
Table 41. Global Non-Conductive Via Filling Resin Sales Market Share by Process Compatibility (2021-2026)
Table 42. Global Non-Conductive Via Filling Resin Revenue by Process Compatibility (2021-2026) & (\$ million)
Table 43. Global Non-Conductive Via Filling Resin Revenue Market Share by Process Compatibility (2021-2026)
Table 44. Global Non-Conductive Via Filling Resin Sale Price by Process Compatibility (2021-2026) & (US\$/kg)
Table 45. Global Non-Conductive Via Filling Resin Sale by Application (2021-2026) & (kg)
Table 46. Global Non-Conductive Via Filling Resin Sale Market Share by Application (2021-2026)
Table 47. Global Non-Conductive Via Filling Resin Revenue by Application (2021-2026) & (\$ million)
Table 48. Global Non-Conductive Via Filling Resin Revenue Market Share by Application (2021-2026)
Table 49. Global Non-Conductive Via Filling Resin Sale Price by Application

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

Table 50. Global Non-Conductive Via Filling Resin Sales by Company (2021-2026) & (kg)

Table 51. Global Non-Conductive Via Filling Resin Sales Market Share by Company (2021-2026)

Table 52. Global Non-Conductive Via Filling Resin Revenue by Company (2021-2026) & (\$ millions)

Table 53. Global Non-Conductive Via Filling Resin Revenue Market Share by Company (2021-2026)

Table 54. Global Non-Conductive Via Filling Resin Sale Price by Company (2021-2026) & (US\$/kg)

Table 55. Key Manufacturers Non-Conductive Via Filling Resin Producing Area Distribution and Sales Area

Table 56. Players Non-Conductive Via Filling Resin Products Offered

Table 57. Non-Conductive Via Filling Resin Concentration Ratio (CR3, CR5 and CR10) & (2024-2026)

Table 58. New Products and Potential Entrants

Table 59. Market M&A Activity & Strategy

Table 60. Global Non-Conductive Via Filling Resin Sales by Geographic Region (2021-2026) & (kg)

Table 61. Global Non-Conductive Via Filling Resin Sales Market Share Geographic Region (2021-2026)

Table 62. Global Non-Conductive Via Filling Resin Revenue by Geographic Region (2021-2026) & (\$ millions)

Table 63. Global Non-Conductive Via Filling Resin Revenue Market Share by Geographic Region (2021-2026)

Table 64. Global Non-Conductive Via Filling Resin Sales by Country/Region (2021-2026) & (kg)

Table 65. Global Non-Conductive Via Filling Resin Sales Market Share by Country/Region (2021-2026)

Table 66. Global Non-Conductive Via Filling Resin Revenue by Country/Region (2021-2026) & (\$ millions)

Table 67. Global Non-Conductive Via Filling Resin Revenue Market Share by Country/Region (2021-2026)

Table 68. Americas Non-Conductive Via Filling Resin Sales by Country (2021-2026) & (kg)

Table 69. Americas Non-Conductive Via Filling Resin Sales Market Share by Country (2021-2026)

Table 70. Americas Non-Conductive Via Filling Resin Revenue by Country (2021-2026)

& (\$ millions)

Table 71. Americas Non-Conductive Via Filling Resin Sales by Type (2021-2026) & (kg)

Table 72. Americas Non-Conductive Via Filling Resin Sales by Application (2021-2026) & (kg)

Table 73. APAC Non-Conductive Via Filling Resin Sales by Region (2021-2026) & (kg)

Table 74. APAC Non-Conductive Via Filling Resin Sales Market Share by Region (2021-2026)

Table 75. APAC Non-Conductive Via Filling Resin Revenue by Region (2021-2026) & (\$ millions)

Table 76. APAC Non-Conductive Via Filling Resin Sales by Type (2021-2026) & (kg)

Table 77. APAC Non-Conductive Via Filling Resin Sales by Application (2021-2026) & (kg)

Table 78. Europe Non-Conductive Via Filling Resin Sales by Country (2021-2026) & (kg)

Table 79. Europe Non-Conductive Via Filling Resin Revenue by Country (2021-2026) & (\$ millions)

Table 80. Europe Non-Conductive Via Filling Resin Sales by Type (2021-2026) & (kg)

Table 81. Europe Non-Conductive Via Filling Resin Sales by Application (2021-2026) & (kg)

Table 82. Middle East & Africa Non-Conductive Via Filling Resin Sales by Country (2021-2026) & (kg)

Table 83. Middle East & Africa Non-Conductive Via Filling Resin Revenue Market Share by Country (2021-2026)

Table 84. Middle East & Africa Non-Conductive Via Filling Resin Sales by Type (2021-2026) & (kg)

Table 85. Middle East & Africa Non-Conductive Via Filling Resin Sales by Application (2021-2026) & (kg)

Table 86. Key Market Drivers & Growth Opportunities of Non-Conductive Via Filling Resin

Table 87. Key Market Challenges & Risks of Non-Conductive Via Filling Resin

Table 88. Key Industry Trends of Non-Conductive Via Filling Resin

Table 89. Non-Conductive Via Filling Resin Raw Material

Table 90. Key Suppliers of Raw Materials

Table 91. Non-Conductive Via Filling Resin Distributors List

Table 92. Non-Conductive Via Filling Resin Customer List

Table 93. Global Non-Conductive Via Filling Resin Sales Forecast by Region (2027-2032) & (kg)

Table 94. Global Non-Conductive Via Filling Resin Revenue Forecast by Region (2027-2032) & (\$ millions)

Table 95. Americas Non-Conductive Via Filling Resin Sales Forecast by Country (2027-2032) & (kg)

Table 96. Americas Non-Conductive Via Filling Resin Annual Revenue Forecast by Country (2027-2032) & (\$ millions)

Table 97. APAC Non-Conductive Via Filling Resin Sales Forecast by Region (2027-2032) & (kg)

Table 98. APAC Non-Conductive Via Filling Resin Annual Revenue Forecast by Region (2027-2032) & (\$ millions)

Table 99. Europe Non-Conductive Via Filling Resin Sales Forecast by Country (2027-2032) & (kg)

Table 100. Europe Non-Conductive Via Filling Resin Revenue Forecast by Country (2027-2032) & (\$ millions)

Table 101. Middle East & Africa Non-Conductive Via Filling Resin Sales Forecast by Country (2027-2032) & (kg)

Table 102. Middle East & Africa Non-Conductive Via Filling Resin Revenue Forecast by Country (2027-2032) & (\$ millions)

Table 103. Global Non-Conductive Via Filling Resin Sales Forecast by Type (2027-2032) & (kg)

Table 104. Global Non-Conductive Via Filling Resin Revenue Forecast by Type (2027-2032) & (\$ millions)

Table 105. Global Non-Conductive Via Filling Resin Sales Forecast by Application (2027-2032) & (kg)

Table 106. Global Non-Conductive Via Filling Resin Revenue Forecast by Application (2027-2032) & (\$ millions)

Table 107. Taiyo Ink Manufacturing Basic Information, Non-Conductive Via Filling Resin Manufacturing Base, Sales Area and Its Competitors

Table 108. Taiyo Ink Manufacturing Non-Conductive Via Filling Resin Product Portfolios and Specifications

Table 109. Taiyo Ink Manufacturing Non-Conductive Via Filling Resin Sales (kg), Revenue (\$ Million), Price (US\$/kg) and Gross Margin (2021-2026)

Table 110. Taiyo Ink Manufacturing Main Business

Table 111. Taiyo Ink Manufacturing Latest Developments

Table 112. San-Ei Kagaku Basic Information, Non-Conductive Via Filling Resin Manufacturing Base, Sales Area and Its Competitors

Table 113. San-Ei Kagaku Non-Conductive Via Filling Resin Product Portfolios and Specifications

Table 114. San-Ei Kagaku Non-Conductive Via Filling Resin Sales (kg), Revenue (\$ Million), Price (US\$/kg) and Gross Margin (2021-2026)

Table 115. San-Ei Kagaku Main Business

Table 116. San-Ei Kagaku Latest Developments

Table 117. Lackwerke Peters Basic Information, Non-Conductive Via Filling Resin Manufacturing Base, Sales Area and Its Competitors

Table 118. Lackwerke Peters Non-Conductive Via Filling Resin Product Portfolios and Specifications

Table 119. Lackwerke Peters Non-Conductive Via Filling Resin Sales (kg), Revenue (\$ Million), Price (US\$/kg) and Gross Margin (2021-2026)

Table 120. Lackwerke Peters Main Business

Table 121. Lackwerke Peters Latest Developments

Table 122. Electra Polymers Basic Information, Non-Conductive Via Filling Resin Manufacturing Base, Sales Area and Its Competitors

Table 123. Electra Polymers Non-Conductive Via Filling Resin Product Portfolios and Specifications

Table 124. Electra Polymers Non-Conductive Via Filling Resin Sales (kg), Revenue (\$ Million), Price (US\$/kg) and Gross Margin (2021-2026)

Table 125. Electra Polymers Main Business

Table 126. Electra Polymers Latest Developments

Table 127. Shenzhen Baroy New Materials Basic Information, Non-Conductive Via Filling Resin Manufacturing Base, Sales Area and Its Competitors

Table 128. Shenzhen Baroy New Materials Non-Conductive Via Filling Resin Product Portfolios and Specifications

Table 129. Shenzhen Baroy New Materials Non-Conductive Via Filling Resin Sales (kg), Revenue (\$ Million), Price (US\$/kg) and Gross Margin (2021-2026)

Table 130. Shenzhen Baroy New Materials Main Business

Table 131. Shenzhen Baroy New Materials Latest Developments

Table 132. Shenzhen Sumitomo Electronic Materials Basic Information, Non-Conductive Via Filling Resin Manufacturing Base, Sales Area and Its Competitors

Table 133. Shenzhen Sumitomo Electronic Materials Non-Conductive Via Filling Resin Product Portfolios and Specifications

Table 134. Shenzhen Sumitomo Electronic Materials Non-Conductive Via Filling Resin Sales (kg), Revenue (\$ Million), Price (US\$/kg) and Gross Margin (2021-2026)

Table 135. Shenzhen Sumitomo Electronic Materials Main Business

Table 136. Shenzhen Sumitomo Electronic Materials Latest Developments

Table 137. SetSense Basic Information, Non-Conductive Via Filling Resin Manufacturing Base, Sales Area and Its Competitors

Table 138. SetSense Non-Conductive Via Filling Resin Product Portfolios and Specifications

Table 139. SetSense Non-Conductive Via Filling Resin Sales (kg), Revenue (\$ Million), Price (US\$/kg) and Gross Margin (2021-2026)

Table 140. SetSense Main Business

Table 141. SetSense Latest Developments

Table 142. Guangdong Kotti New Materials Basic Information, Non-Conductive Via Filling Resin Manufacturing Base, Sales Area and Its Competitors

Table 143. Guangdong Kotti New Materials Non-Conductive Via Filling Resin Product Portfolios and Specifications

Table 144. Guangdong Kotti New Materials Non-Conductive Via Filling Resin Sales (kg), Revenue (\$ Million), Price (US\$/kg) and Gross Margin (2021-2026)

Table 145. Guangdong Kotti New Materials Main Business

Table 146. Guangdong Kotti New Materials Latest Developments

List Of Figures

LIST OF FIGURES

- Figure 1. Picture of Non-Conductive Via Filling Resin
- Figure 2. Non-Conductive Via Filling Resin Report Years Considered
- Figure 3. Research Objectives
- Figure 4. Research Methodology
- Figure 5. Research Process and Data Source
- Figure 6. Global Non-Conductive Via Filling Resin Sales Growth Rate 2021-2032 (kg)
- Figure 7. Global Non-Conductive Via Filling Resin Revenue Growth Rate 2021-2032 (\$ millions)
- Figure 8. Non-Conductive Via Filling Resin Sales by Geographic Region (2021, 2025 & 2032) & (\$ millions)
- Figure 9. Non-Conductive Via Filling Resin Sales Market Share by Country/Region (2025)
- Figure 10. Non-Conductive Via Filling Resin Sales Market Share by Country/Region (2021, 2025 & 2032)
- Figure 11. Product Picture of Thermally Curable Epoxy
- Figure 12. Product Picture of Photoimageable Filler
- Figure 13. Product Picture of UV-Thermal Dual Cure
- Figure 14. Product Picture of Low-Temperature Cure
- Figure 15. Product Picture of Other Systems
- Figure 16. Global Non-Conductive Via Filling Resin Sales Market Share by Type in 2026
- Figure 17. Global Non-Conductive Via Filling Resin Revenue Market Share by Type (2021-2026)
- Figure 18. Product Picture of Standard HDI Grade
- Figure 19. Product Picture of High Tg Low CTE Grade
- Figure 20. Product Picture of Low Dk Low Df Grade
- Figure 21. Product Picture of Package Substrate Grade
- Figure 22. Product Picture of Metal Substrate Grade
- Figure 23. Product Picture of Other Grades
- Figure 24. Global Non-Conductive Via Filling Resin Sales Market Share by Performance Grade in 2026
- Figure 25. Global Non-Conductive Via Filling Resin Revenue Market Share by Performance Grade (2021-2026)
- Figure 26. Product Picture of Through-Hole Filling
- Figure 27. Product Picture of Blind and Buried Via Filling

Figure 28. Product Picture of Via-in-Pad Filling

Figure 29. Product Picture of Slot and Trench Filling

Figure 30. Product Picture of Other Structures

Figure 31. Global Non-Conductive Via Filling Resin Sales Market Share by Via Structure in 2026

Figure 32. Global Non-Conductive Via Filling Resin Revenue Market Share by Via Structure (2021-2026)

Figure 33. Product Picture of Vacuum Filling Grade

Figure 34. Product Picture of Screen Printing Grade

Figure 35. Product Picture of Stencil Printing Grade

Figure 36. Product Picture of Automatic Filling Grade

Figure 37. Product Picture of Selective Plugging Grade

Figure 38. Product Picture of Other Process Grade

Figure 39. Global Non-Conductive Via Filling Resin Sales Market Share by Process Compatibility in 2026

Figure 40. Global Non-Conductive Via Filling Resin Revenue Market Share by Process Compatibility (2021-2026)

Figure 41. Non-Conductive Via Filling Resin Consumed in HDI PCB Manufacturing

Figure 42. Global Non-Conductive Via Filling Resin Market: HDI PCB Manufacturing (2021-2026) & (kg)

Figure 43. Non-Conductive Via Filling Resin Consumed in IC Package Substrate Manufacturing

Figure 44. Global Non-Conductive Via Filling Resin Market: IC Package Substrate Manufacturing (2021-2026) & (kg)

Figure 45. Non-Conductive Via Filling Resin Consumed in Multilayer PCB Manufacturing

Figure 46. Global Non-Conductive Via Filling Resin Market: Multilayer PCB Manufacturing (2021-2026) & (kg)

Figure 47. Non-Conductive Via Filling Resin Consumed in High-Frequency PCB Manufacturing

Figure 48. Global Non-Conductive Via Filling Resin Market: High-Frequency PCB Manufacturing (2021-2026) & (kg)

Figure 49. Non-Conductive Via Filling Resin Consumed in Heavy Copper PCB Manufacturing

Figure 50. Global Non-Conductive Via Filling Resin Market: Heavy Copper PCB Manufacturing (2021-2026) & (kg)

Figure 51. Non-Conductive Via Filling Resin Consumed in Metal Core PCB Manufacturing

Figure 52. Global Non-Conductive Via Filling Resin Market: Metal Core PCB

Manufacturing (2021-2026) & (kg)

Figure 53. Non-Conductive Via Filling Resin Consumed in Automotive Electronics PCB Manufacturing

Figure 54. Global Non-Conductive Via Filling Resin Market: Automotive Electronics PCB Manufacturing (2021-2026) & (kg)

Figure 55. Global Non-Conductive Via Filling Resin Sale Market Share by Application (2025)

Figure 56. Global Non-Conductive Via Filling Resin Revenue Market Share by Application in 2025

Figure 57. Non-Conductive Via Filling Resin Sales by Company in 2025 (kg)

Figure 58. Global Non-Conductive Via Filling Resin Sales Market Share by Company in 2025

Figure 59. Non-Conductive Via Filling Resin Revenue by Company in 2025 (\$ millions)

Figure 60. Global Non-Conductive Via Filling Resin Revenue Market Share by Company in 2025

Figure 61. Global Non-Conductive Via Filling Resin Sales Market Share by Geographic Region (2021-2026)

Figure 62. Global Non-Conductive Via Filling Resin Revenue Market Share by Geographic Region in 2025

Figure 63. Americas Non-Conductive Via Filling Resin Sales 2021-2026 (kg)

Figure 64. Americas Non-Conductive Via Filling Resin Revenue 2021-2026 (\$ millions)

Figure 65. APAC Non-Conductive Via Filling Resin Sales 2021-2026 (kg)

Figure 66. APAC Non-Conductive Via Filling Resin Revenue 2021-2026 (\$ millions)

Figure 67. Europe Non-Conductive Via Filling Resin Sales 2021-2026 (kg)

Figure 68. Europe Non-Conductive Via Filling Resin Revenue 2021-2026 (\$ millions)

Figure 69. Middle East & Africa Non-Conductive Via Filling Resin Sales 2021-2026 (kg)

Figure 70. Middle East & Africa Non-Conductive Via Filling Resin Revenue 2021-2026 (\$ millions)

Figure 71. Americas Non-Conductive Via Filling Resin Sales Market Share by Country in 2025

Figure 72. Americas Non-Conductive Via Filling Resin Revenue Market Share by Country (2021-2026)

Figure 73. Americas Non-Conductive Via Filling Resin Sales Market Share by Type (2021-2026)

Figure 74. Americas Non-Conductive Via Filling Resin Sales Market Share by Application (2021-2026)

Figure 75. United States Non-Conductive Via Filling Resin Revenue Growth 2021-2026 (\$ millions)

Figure 76. Canada Non-Conductive Via Filling Resin Revenue Growth 2021-2026 (\$

millions)

Figure 77. Mexico Non-Conductive Via Filling Resin Revenue Growth 2021-2026 (\$ millions)

Figure 78. Brazil Non-Conductive Via Filling Resin Revenue Growth 2021-2026 (\$ millions)

Figure 79. APAC Non-Conductive Via Filling Resin Sales Market Share by Region in 2025

Figure 80. APAC Non-Conductive Via Filling Resin Revenue Market Share by Region (2021-2026)

Figure 81. APAC Non-Conductive Via Filling Resin Sales Market Share by Type (2021-2026)

Figure 82. APAC Non-Conductive Via Filling Resin Sales Market Share by Application (2021-2026)

Figure 83. China Non-Conductive Via Filling Resin Revenue Growth 2021-2026 (\$ millions)

Figure 84. Japan Non-Conductive Via Filling Resin Revenue Growth 2021-2026 (\$ millions)

Figure 85. South Korea Non-Conductive Via Filling Resin Revenue Growth 2021-2026 (\$ millions)

Figure 86. Southeast Asia Non-Conductive Via Filling Resin Revenue Growth 2021-2026 (\$ millions)

Figure 87. India Non-Conductive Via Filling Resin Revenue Growth 2021-2026 (\$ millions)

Figure 88. Australia Non-Conductive Via Filling Resin Revenue Growth 2021-2026 (\$ millions)

Figure 89. China Taiwan Non-Conductive Via Filling Resin Revenue Growth 2021-2026 (\$ millions)

Figure 90. Europe Non-Conductive Via Filling Resin Sales Market Share by Country in 2025

Figure 91. Europe Non-Conductive Via Filling Resin Revenue Market Share by Country (2021-2026)

Figure 92. Europe Non-Conductive Via Filling Resin Sales Market Share by Type (2021-2026)

Figure 93. Europe Non-Conductive Via Filling Resin Sales Market Share by Application (2021-2026)

Figure 94. Germany Non-Conductive Via Filling Resin Revenue Growth 2021-2026 (\$ millions)

Figure 95. France Non-Conductive Via Filling Resin Revenue Growth 2021-2026 (\$ millions)

Figure 96. UK Non-Conductive Via Filling Resin Revenue Growth 2021-2026 (\$ millions)

Figure 97. Italy Non-Conductive Via Filling Resin Revenue Growth 2021-2026 (\$ millions)

Figure 98. Russia Non-Conductive Via Filling Resin Revenue Growth 2021-2026 (\$ millions)

Figure 99. Middle East & Africa Non-Conductive Via Filling Resin Sales Market Share by Country (2021-2026)

Figure 100. Middle East & Africa Non-Conductive Via Filling Resin Sales Market Share by Type (2021-2026)

Figure 101. Middle East & Africa Non-Conductive Via Filling Resin Sales Market Share by Application (2021-2026)

Figure 102. Egypt Non-Conductive Via Filling Resin Revenue Growth 2021-2026 (\$ millions)

Figure 103. South Africa Non-Conductive Via Filling Resin Revenue Growth 2021-2026 (\$ millions)

Figure 104. Israel Non-Conductive Via Filling Resin Revenue Growth 2021-2026 (\$ millions)

Figure 105. Turkey Non-Conductive Via Filling Resin Revenue Growth 2021-2026 (\$ millions)

Figure 106. GCC Countries Non-Conductive Via Filling Resin Revenue Growth 2021-2026 (\$ millions)

Figure 107. Manufacturing Cost Structure Analysis of Non-Conductive Via Filling Resin in 2026

Figure 108. Manufacturing Process Analysis of Non-Conductive Via Filling Resin

Figure 109. Industry Chain Structure of Non-Conductive Via Filling Resin

Figure 110. Channels of Distribution

Figure 111. Global Non-Conductive Via Filling Resin Sales Market Forecast by Region (2027-2032)

Figure 112. Global Non-Conductive Via Filling Resin Revenue Market Share Forecast by Region (2027-2032)

Figure 113. Global Non-Conductive Via Filling Resin Sales Market Share Forecast by Type (2027-2032)

Figure 114. Global Non-Conductive Via Filling Resin Revenue Market Share Forecast by Type (2027-2032)

Figure 115. Global Non-Conductive Via Filling Resin Sales Market Share Forecast by Application (2027-2032)

Figure 116. Global Non-Conductive Via Filling Resin Revenue Market Share Forecast by Application (2027-2032)

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