

Global Microencapsulated Imidazole Curing Agent Market Growth 2026-2032

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Abstracts

The global Microencapsulated Imidazole Curing Agent market size is predicted to grow from US\$ 280 million in 2025 to US\$ 461 million in 2032; it is expected to grow at a CAGR of 7.4% from 2026 to 2032.

Microencapsulated imidazole latent curing agents are epoxy curing agents or curing accelerators in which imidazole or imidazole derivatives are physically or chemically isolated through polymer shells, resin barriers, inclusion structures or epoxy-resin masterbatch systems. These materials remain latent at room temperature or during low-temperature storage and release or activate the imidazole component upon heating, pressure, shear or shell softening. They enable one-component epoxy formulations with both long storage stability and rapid thermal curing, and are mainly used in electronic encapsulation, anisotropic conductive films, non-conductive adhesives, one-component structural adhesives, prepregs, powder coatings, composites and precision electronic bonding.

Microencapsulated imidazole curing agents should be defined as microcapsule-type imidazole latent curing agents for epoxy systems rather than as ordinary imidazole hardeners. Their key feature is the physical or chemical isolation of the active imidazole component through capsule shells, epoxy masterbatch dispersion, chemical capping or inclusion structures. This allows epoxy formulations to maintain storage stability at room temperature or low temperature and to cure rapidly when activated by heat, pressure, shear or shell softening. Under a strict market scope, NOVACURE HX-type microencapsulated imidazole masterbatches represent the clearest commercial product category, while AJICURE, CUREZOL, CUREDUCT, NISSOCURE, FUJICURE and ADEKA EH products should be classified by grade as modified imidazoles, imidazole adducts, inclusion imidazoles or adjacent latent hardener systems.

From the supply perspective, Japanese companies hold a clear technical position in this market. Asahi Kasei / NOVACURE is the most important core manufacturer under the strict microencapsulated imidazole definition. Ajinomoto Fine-Techno, Shikoku Chemicals, Nippon Soda, T&K TOKA and ADEKA also have strong product lines in imidazole-based or latent epoxy curing systems. Evonik participates in the global supply chain through CUREZOL and IMICURE brands, while BASF is an important upstream imidazole producer.

Demand is driven primarily by electronic encapsulation, ACF/NCA, one-component electronic adhesives, low-temperature structural adhesives, prepregs, composites and powder coatings. Downstream customers do not evaluate these products only by curing speed; the most important criteria include storage stability, low-temperature curing, electronic reliability, low ionic and chlorine impurities, dispersion quality, dispensing and coating process compatibility, batch consistency and reliable long-term supply. Future growth is expected to be supported by advanced semiconductor packaging, display interconnect materials, automotive electronics, low-temperature structural adhesives, China-based substitution in electronic adhesives, fast-cure composites and wider adoption of one-component epoxy systems.

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

This Insight Report provides a comprehensive analysis of the global Microencapsulated Imidazole Curing Agent 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 Microencapsulated Imidazole Curing Agent portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Microencapsulated Imidazole Curing Agent market.

This Insight Report evaluates the key market trends, drivers, and affecting factors

shaping the global outlook for Microencapsulated Imidazole Curing Agent and breaks down the forecast by Activation Temperature, 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 Microencapsulated Imidazole Curing Agent.

This report presents a comprehensive overview, market shares, and growth opportunities of Microencapsulated Imidazole Curing Agent market by product type, application, key manufacturers and key regions and countries.

Segmentation by Activation Temperature:

?70°C Ultra-low-temperature Activation

70–90°C Low-temperature Activation

90–110°C Standard Low-temperature Activation

110–130°C Medium-temperature Activation

130–150°C High-stability Activation

>150°C High-temperature Activation

Segmentation by Imidazole Core Chemistry:

2-Methylimidazole-based Systems

2-Ethyl-4-methylimidazole-based Systems

2-Phenylimidazole / Phenyl-substituted Systems

Imidazole-epoxy Adduct Systems

Segmentation by Latency Mechanism:

Polymer-shell Physical Encapsulation

In-situ Resin / Epoxy Masterbatch Encapsulation

Isocyanate / Urea-based Barrier Encapsulation

Segmentation by Application:

Electronics and Semiconductor

Automotive and Transportation

Aerospace and Composite Materials

Industrial Adhesives and Sealants

Coatings and Electrical Insulation

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.

Asahi Kasei Corporation

Ajinomoto Fine-Techno Co., Inc.

Shikoku Chemicals Corporation

Evonik Industries AG

T&K TOKA Corporation

Nippon Soda Co., Ltd.

Key Questions Addressed in this Report

What is the 10-year outlook for the global Microencapsulated Imidazole Curing Agent market?

What factors are driving Microencapsulated Imidazole Curing Agent market growth, globally and by region?

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

How do Microencapsulated Imidazole Curing Agent market opportunities vary by end market size?

How does Microencapsulated Imidazole Curing Agent break out by Activation Temperature, 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 Microencapsulated Imidazole Curing Agent Annual Sales 2021-2032
- 2.1.2 World Current & Future Analysis for Microencapsulated Imidazole Curing Agent by Geographic Region, 2021, 2025 & 2032
- 2.1.3 World Current & Future Analysis for Microencapsulated Imidazole Curing Agent by Country/Region, 2021, 2025 & 2032

2.2 Microencapsulated Imidazole Curing Agent Segment by Activation Temperature

- 2.2.1 $\leq 70^{\circ}\text{C}$ Ultra-low-temperature Activation
 - 2.2.2 $70\text{--}90^{\circ}\text{C}$ Low-temperature Activation
 - 2.2.3 $90\text{--}110^{\circ}\text{C}$ Standard Low-temperature Activation
 - 2.2.4 $110\text{--}130^{\circ}\text{C}$ Medium-temperature Activation
 - 2.2.5 $130\text{--}150^{\circ}\text{C}$ High-stability Activation
 - 2.2.6 $>150^{\circ}\text{C}$ High-temperature Activation
 - 2.2.7 Microencapsulated Imidazole Curing Agent Sales by Activation Temperature
 - 2.2.7.1 Global Microencapsulated Imidazole Curing Agent Sales Market Share by Activation Temperature (2021-2026)
 - 2.2.7.2 Global Microencapsulated Imidazole Curing Agent Revenue and Market Share by Activation Temperature (2021-2026)
 - 2.2.7.3 Global Microencapsulated Imidazole Curing Agent Sale Price by Activation Temperature (2021-2026)
- #### 2.3 Microencapsulated Imidazole Curing Agent Segment by Imidazole Core Chemistry
- 2.3.1 2-Methylimidazole-based Systems
 - 2.3.2 2-Ethyl-4-methylimidazole-based Systems
 - 2.3.3 2-Phenylimidazole / Phenyl-substituted Systems

2.3.4 Imidazole-epoxy Adduct Systems

2.3.5 Microencapsulated Imidazole Curing Agent Sales by Imidazole Core Chemistry

2.3.5.1 Global Microencapsulated Imidazole Curing Agent Sales Market Share by Imidazole Core Chemistry (2021-2026)

2.3.5.2 Global Microencapsulated Imidazole Curing Agent Revenue and Market Share by Imidazole Core Chemistry (2021-2026)

2.3.5.3 Global Microencapsulated Imidazole Curing Agent Sale Price by Imidazole Core Chemistry (2021-2026)

2.4 Microencapsulated Imidazole Curing Agent Segment by Latency Mechanism

2.4.1 Polymer-shell Physical Encapsulation

2.4.2 In-situ Resin / Epoxy Masterbatch Encapsulation

2.4.3 Isocyanate / Urea-based Barrier Encapsulation

2.4.4 Microencapsulated Imidazole Curing Agent Sales by Latency Mechanism

2.4.4.1 Global Microencapsulated Imidazole Curing Agent Sales Market Share by Latency Mechanism (2021-2026)

2.4.4.2 Global Microencapsulated Imidazole Curing Agent Revenue and Market Share by Latency Mechanism (2021-2026)

2.4.4.3 Global Microencapsulated Imidazole Curing Agent Sale Price by Latency Mechanism (2021-2026)

2.5 Microencapsulated Imidazole Curing Agent Segment by Application

2.5.1 Electronics and Semiconductor

2.5.2 Automotive and Transportation

2.5.3 Aerospace and Composite Materials

2.5.4 Industrial Adhesives and Sealants

2.5.5 Coatings and Electrical Insulation

2.5.6 Microencapsulated Imidazole Curing Agent Sales by Application

2.5.6.1 Global Microencapsulated Imidazole Curing Agent Sale Market Share by Application (2021-2026)

2.5.6.2 Global Microencapsulated Imidazole Curing Agent Revenue and Market Share by Application (2021-2026)

2.5.6.3 Global Microencapsulated Imidazole Curing Agent Sale Price by Application (2021-2026)

3 GLOBAL BY COMPANY

3.1 Global Microencapsulated Imidazole Curing Agent Breakdown Data by Company

3.1.1 Global Microencapsulated Imidazole Curing Agent Annual Sales by Company (2021-2026)

3.1.2 Global Microencapsulated Imidazole Curing Agent Sales Market Share by

Company (2021-2026)

3.2 Global Microencapsulated Imidazole Curing Agent Annual Revenue by Company (2021-2026)

3.2.1 Global Microencapsulated Imidazole Curing Agent Revenue by Company (2021-2026)

3.2.2 Global Microencapsulated Imidazole Curing Agent Revenue Market Share by Company (2021-2026)

3.3 Global Microencapsulated Imidazole Curing Agent Sale Price by Company

3.4 Key Manufacturers Microencapsulated Imidazole Curing Agent Producing Area Distribution, Sales Area, Product Type

3.4.1 Key Manufacturers Microencapsulated Imidazole Curing Agent Product Location Distribution

3.4.2 Players Microencapsulated Imidazole Curing Agent 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 MICROENCAPSULATED IMIDAZOLE CURING AGENT BY GEOGRAPHIC REGION

4.1 World Historic Microencapsulated Imidazole Curing Agent Market Size by Geographic Region (2021-2026)

4.1.1 Global Microencapsulated Imidazole Curing Agent Annual Sales by Geographic Region (2021-2026)

4.1.2 Global Microencapsulated Imidazole Curing Agent Annual Revenue by Geographic Region (2021-2026)

4.2 World Historic Microencapsulated Imidazole Curing Agent Market Size by Country/Region (2021-2026)

4.2.1 Global Microencapsulated Imidazole Curing Agent Annual Sales by Country/Region (2021-2026)

4.2.2 Global Microencapsulated Imidazole Curing Agent Annual Revenue by Country/Region (2021-2026)

4.3 Americas Microencapsulated Imidazole Curing Agent Sales Growth

4.4 APAC Microencapsulated Imidazole Curing Agent Sales Growth

4.5 Europe Microencapsulated Imidazole Curing Agent Sales Growth

4.6 Middle East & Africa Microencapsulated Imidazole Curing Agent Sales Growth

5 AMERICAS

5.1 Americas Microencapsulated Imidazole Curing Agent Sales by Country

5.1.1 Americas Microencapsulated Imidazole Curing Agent Sales by Country (2021-2026)

5.1.2 Americas Microencapsulated Imidazole Curing Agent Revenue by Country (2021-2026)

5.2 Americas Microencapsulated Imidazole Curing Agent Sales by Activation Temperature (2021-2026)

5.3 Americas Microencapsulated Imidazole Curing Agent Sales by Application (2021-2026)

5.4 United States

5.5 Canada

5.6 Mexico

5.7 Brazil

6 APAC

6.1 APAC Microencapsulated Imidazole Curing Agent Sales by Region

6.1.1 APAC Microencapsulated Imidazole Curing Agent Sales by Region (2021-2026)

6.1.2 APAC Microencapsulated Imidazole Curing Agent Revenue by Region (2021-2026)

6.2 APAC Microencapsulated Imidazole Curing Agent Sales by Activation Temperature (2021-2026)

6.3 APAC Microencapsulated Imidazole Curing Agent 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 Microencapsulated Imidazole Curing Agent by Country

7.1.1 Europe Microencapsulated Imidazole Curing Agent Sales by Country (2021-2026)

7.1.2 Europe Microencapsulated Imidazole Curing Agent Revenue by Country

(2021-2026)

7.2 Europe Microencapsulated Imidazole Curing Agent Sales by Activation Temperature (2021-2026)

7.3 Europe Microencapsulated Imidazole Curing Agent 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 Microencapsulated Imidazole Curing Agent by Country

8.1.1 Middle East & Africa Microencapsulated Imidazole Curing Agent Sales by Country (2021-2026)

8.1.2 Middle East & Africa Microencapsulated Imidazole Curing Agent Revenue by Country (2021-2026)

8.2 Middle East & Africa Microencapsulated Imidazole Curing Agent Sales by Activation Temperature (2021-2026)

8.3 Middle East & Africa Microencapsulated Imidazole Curing Agent 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 Microencapsulated Imidazole Curing Agent

10.3 Manufacturing Process Analysis of Microencapsulated Imidazole Curing Agent

10.4 Industry Chain Structure of Microencapsulated Imidazole Curing Agent

11 MARKETING, DISTRIBUTORS AND CUSTOMER

11.1 Sales Channel

11.1.1 Direct Channels

11.1.2 Indirect Channels

11.2 Microencapsulated Imidazole Curing Agent Distributors

11.3 Microencapsulated Imidazole Curing Agent Customer

12 WORLD FORECAST REVIEW FOR MICROENCAPSULATED IMIDAZOLE CURING AGENT BY GEOGRAPHIC REGION

12.1 Global Microencapsulated Imidazole Curing Agent Market Size Forecast by Region

12.1.1 Global Microencapsulated Imidazole Curing Agent Forecast by Region
(2027-2032)

12.1.2 Global Microencapsulated Imidazole Curing Agent 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 Microencapsulated Imidazole Curing Agent Forecast by Activation
Temperature (2027-2032)

12.7 Global Microencapsulated Imidazole Curing Agent Forecast by Application
(2027-2032)

13 KEY PLAYERS ANALYSIS

13.1 Asahi Kasei Corporation

13.1.1 Asahi Kasei Corporation Company Information

13.1.2 Asahi Kasei Corporation Microencapsulated Imidazole Curing Agent Product
Portfolios and Specifications

13.1.3 Asahi Kasei Corporation Microencapsulated Imidazole Curing Agent Sales,
Revenue, Price and Gross Margin (2021-2026)

13.1.4 Asahi Kasei Corporation Main Business Overview

13.1.5 Asahi Kasei Corporation Latest Developments

13.2 Ajinomoto Fine-Techno Co., Inc.

- 13.2.1 Ajinomoto Fine-Techno Co., Inc. Company Information
- 13.2.2 Ajinomoto Fine-Techno Co., Inc. Microencapsulated Imidazole Curing Agent Product Portfolios and Specifications
- 13.2.3 Ajinomoto Fine-Techno Co., Inc. Microencapsulated Imidazole Curing Agent Sales, Revenue, Price and Gross Margin (2021-2026)
- 13.2.4 Ajinomoto Fine-Techno Co., Inc. Main Business Overview
- 13.2.5 Ajinomoto Fine-Techno Co., Inc. Latest Developments
- 13.3 Shikoku Chemicals Corporation
- 13.3.1 Shikoku Chemicals Corporation Company Information
- 13.3.2 Shikoku Chemicals Corporation Microencapsulated Imidazole Curing Agent Product Portfolios and Specifications
- 13.3.3 Shikoku Chemicals Corporation Microencapsulated Imidazole Curing Agent Sales, Revenue, Price and Gross Margin (2021-2026)
- 13.3.4 Shikoku Chemicals Corporation Main Business Overview
- 13.3.5 Shikoku Chemicals Corporation Latest Developments
- 13.4 Evonik Industries AG
- 13.4.1 Evonik Industries AG Company Information
- 13.4.2 Evonik Industries AG Microencapsulated Imidazole Curing Agent Product Portfolios and Specifications
- 13.4.3 Evonik Industries AG Microencapsulated Imidazole Curing Agent Sales, Revenue, Price and Gross Margin (2021-2026)
- 13.4.4 Evonik Industries AG Main Business Overview
- 13.4.5 Evonik Industries AG Latest Developments
- 13.5 T&K TOKA Corporation
- 13.5.1 T&K TOKA Corporation Company Information
- 13.5.2 T&K TOKA Corporation Microencapsulated Imidazole Curing Agent Product Portfolios and Specifications
- 13.5.3 T&K TOKA Corporation Microencapsulated Imidazole Curing Agent Sales, Revenue, Price and Gross Margin (2021-2026)
- 13.5.4 T&K TOKA Corporation Main Business Overview
- 13.5.5 T&K TOKA Corporation Latest Developments
- 13.6 Nippon Soda Co., Ltd.
- 13.6.1 Nippon Soda Co., Ltd. Company Information
- 13.6.2 Nippon Soda Co., Ltd. Microencapsulated Imidazole Curing Agent Product Portfolios and Specifications
- 13.6.3 Nippon Soda Co., Ltd. Microencapsulated Imidazole Curing Agent Sales, Revenue, Price and Gross Margin (2021-2026)
- 13.6.4 Nippon Soda Co., Ltd. Main Business Overview
- 13.6.5 Nippon Soda Co., Ltd. Latest Developments

14 RESEARCH FINDINGS AND CONCLUSION

List Of Tables

LIST OF TABLES

- Table 1. Microencapsulated Imidazole Curing Agent Annual Sales CAGR by Geographic Region (2021, 2025 & 2032) & (\$ millions)
- Table 2. Microencapsulated Imidazole Curing Agent Annual Sales CAGR by Country/Region (2021, 2025 & 2032) & (\$ millions)
- Table 3. Major Players of ?70°C Ultra-low-temperature Activation
- Table 4. Major Players of 70–90°C Low-temperature Activation
- Table 5. Major Players of 90–110°C Standard Low-temperature Activation
- Table 6. Major Players of 110–130°C Medium-temperature Activation
- Table 7. Major Players of 130–150°C High-stability Activation
- Table 8. Major Players of >150°C High-temperature Activation
- Table 9. Global Microencapsulated Imidazole Curing Agent Sales by Activation Temperature (2021-2026) & (Tons)
- Table 10. Global Microencapsulated Imidazole Curing Agent Sales Market Share by Activation Temperature (2021-2026)
- Table 11. Global Microencapsulated Imidazole Curing Agent Revenue by Activation Temperature (2021-2026) & (\$ million)
- Table 12. Global Microencapsulated Imidazole Curing Agent Revenue Market Share by Activation Temperature (2021-2026)
- Table 13. Global Microencapsulated Imidazole Curing Agent Sale Price by Activation Temperature (2021-2026) & (US\$/Ton)
- Table 14. Major Players of 2-Methylimidazole-based Systems
- Table 15. Major Players of 2-Ethyl-4-methylimidazole-based Systems
- Table 16. Major Players of 2-Phenylimidazole / Phenyl-substituted Systems
- Table 17. Major Players of Imidazole-epoxy Adduct Systems
- Table 18. Global Microencapsulated Imidazole Curing Agent Sales by Imidazole Core Chemistry (2021-2026) & (Tons)
- Table 19. Global Microencapsulated Imidazole Curing Agent Sales Market Share by Imidazole Core Chemistry (2021-2026)
- Table 20. Global Microencapsulated Imidazole Curing Agent Revenue by Imidazole Core Chemistry (2021-2026) & (\$ million)
- Table 21. Global Microencapsulated Imidazole Curing Agent Revenue Market Share by Imidazole Core Chemistry (2021-2026)
- Table 22. Global Microencapsulated Imidazole Curing Agent Sale Price by Imidazole Core Chemistry (2021-2026) & (US\$/Ton)
- Table 23. Major Players of Polymer-shell Physical Encapsulation

Table 24. Major Players of In-situ Resin / Epoxy Masterbatch Encapsulation
Table 25. Major Players of Isocyanate / Urea-based Barrier Encapsulation
Table 26. Global Microencapsulated Imidazole Curing Agent Sales by Latency Mechanism (2021-2026) & (Tons)
Table 27. Global Microencapsulated Imidazole Curing Agent Sales Market Share by Latency Mechanism (2021-2026)
Table 28. Global Microencapsulated Imidazole Curing Agent Revenue by Latency Mechanism (2021-2026) & (\$ million)
Table 29. Global Microencapsulated Imidazole Curing Agent Revenue Market Share by Latency Mechanism (2021-2026)
Table 30. Global Microencapsulated Imidazole Curing Agent Sale Price by Latency Mechanism (2021-2026) & (US\$/Ton)
Table 31. Global Microencapsulated Imidazole Curing Agent Sale by Application (2021-2026) & (Tons)
Table 32. Global Microencapsulated Imidazole Curing Agent Sale Market Share by Application (2021-2026)
Table 33. Global Microencapsulated Imidazole Curing Agent Revenue by Application (2021-2026) & (\$ million)
Table 34. Global Microencapsulated Imidazole Curing Agent Revenue Market Share by Application (2021-2026)
Table 35. Global Microencapsulated Imidazole Curing Agent Sale Price by Application (2021-2026) & (US\$/Ton)
Table 36. Global Microencapsulated Imidazole Curing Agent Sales by Company (2021-2026) & (Tons)
Table 37. Global Microencapsulated Imidazole Curing Agent Sales Market Share by Company (2021-2026)
Table 38. Global Microencapsulated Imidazole Curing Agent Revenue by Company (2021-2026) & (\$ millions)
Table 39. Global Microencapsulated Imidazole Curing Agent Revenue Market Share by Company (2021-2026)
Table 40. Global Microencapsulated Imidazole Curing Agent Sale Price by Company (2021-2026) & (US\$/Ton)
Table 41. Key Manufacturers Microencapsulated Imidazole Curing Agent Producing Area Distribution and Sales Area
Table 42. Players Microencapsulated Imidazole Curing Agent Products Offered
Table 43. Microencapsulated Imidazole Curing Agent Concentration Ratio (CR3, CR5 and CR10) & (2024-2026)
Table 44. New Products and Potential Entrants
Table 45. Market M&A Activity & Strategy

Table 46. Global Microencapsulated Imidazole Curing Agent Sales by Geographic Region (2021-2026) & (Tons)

Table 47. Global Microencapsulated Imidazole Curing Agent Sales Market Share Geographic Region (2021-2026)

Table 48. Global Microencapsulated Imidazole Curing Agent Revenue by Geographic Region (2021-2026) & (\$ millions)

Table 49. Global Microencapsulated Imidazole Curing Agent Revenue Market Share by Geographic Region (2021-2026)

Table 50. Global Microencapsulated Imidazole Curing Agent Sales by Country/Region (2021-2026) & (Tons)

Table 51. Global Microencapsulated Imidazole Curing Agent Sales Market Share by Country/Region (2021-2026)

Table 52. Global Microencapsulated Imidazole Curing Agent Revenue by Country/Region (2021-2026) & (\$ millions)

Table 53. Global Microencapsulated Imidazole Curing Agent Revenue Market Share by Country/Region (2021-2026)

Table 54. Americas Microencapsulated Imidazole Curing Agent Sales by Country (2021-2026) & (Tons)

Table 55. Americas Microencapsulated Imidazole Curing Agent Sales Market Share by Country (2021-2026)

Table 56. Americas Microencapsulated Imidazole Curing Agent Revenue by Country (2021-2026) & (\$ millions)

Table 57. Americas Microencapsulated Imidazole Curing Agent Sales by Activation Temperature (2021-2026) & (Tons)

Table 58. Americas Microencapsulated Imidazole Curing Agent Sales by Application (2021-2026) & (Tons)

Table 59. APAC Microencapsulated Imidazole Curing Agent Sales by Region (2021-2026) & (Tons)

Table 60. APAC Microencapsulated Imidazole Curing Agent Sales Market Share by Region (2021-2026)

Table 61. APAC Microencapsulated Imidazole Curing Agent Revenue by Region (2021-2026) & (\$ millions)

Table 62. APAC Microencapsulated Imidazole Curing Agent Sales by Activation Temperature (2021-2026) & (Tons)

Table 63. APAC Microencapsulated Imidazole Curing Agent Sales by Application (2021-2026) & (Tons)

Table 64. Europe Microencapsulated Imidazole Curing Agent Sales by Country (2021-2026) & (Tons)

Table 65. Europe Microencapsulated Imidazole Curing Agent Revenue by Country

(2021-2026) & (\$ millions)

Table 66. Europe Microencapsulated Imidazole Curing Agent Sales by Activation Temperature (2021-2026) & (Tons)

Table 67. Europe Microencapsulated Imidazole Curing Agent Sales by Application (2021-2026) & (Tons)

Table 68. Middle East & Africa Microencapsulated Imidazole Curing Agent Sales by Country (2021-2026) & (Tons)

Table 69. Middle East & Africa Microencapsulated Imidazole Curing Agent Revenue Market Share by Country (2021-2026)

Table 70. Middle East & Africa Microencapsulated Imidazole Curing Agent Sales by Activation Temperature (2021-2026) & (Tons)

Table 71. Middle East & Africa Microencapsulated Imidazole Curing Agent Sales by Application (2021-2026) & (Tons)

Table 72. Key Market Drivers & Growth Opportunities of Microencapsulated Imidazole Curing Agent

Table 73. Key Market Challenges & Risks of Microencapsulated Imidazole Curing Agent

Table 74. Key Industry Trends of Microencapsulated Imidazole Curing Agent

Table 75. Microencapsulated Imidazole Curing Agent Raw Material

Table 76. Key Suppliers of Raw Materials

Table 77. Microencapsulated Imidazole Curing Agent Distributors List

Table 78. Microencapsulated Imidazole Curing Agent Customer List

Table 79. Global Microencapsulated Imidazole Curing Agent Sales Forecast by Region (2027-2032) & (Tons)

Table 80. Global Microencapsulated Imidazole Curing Agent Revenue Forecast by Region (2027-2032) & (\$ millions)

Table 81. Americas Microencapsulated Imidazole Curing Agent Sales Forecast by Country (2027-2032) & (Tons)

Table 82. Americas Microencapsulated Imidazole Curing Agent Annual Revenue Forecast by Country (2027-2032) & (\$ millions)

Table 83. APAC Microencapsulated Imidazole Curing Agent Sales Forecast by Region (2027-2032) & (Tons)

Table 84. APAC Microencapsulated Imidazole Curing Agent Annual Revenue Forecast by Region (2027-2032) & (\$ millions)

Table 85. Europe Microencapsulated Imidazole Curing Agent Sales Forecast by Country (2027-2032) & (Tons)

Table 86. Europe Microencapsulated Imidazole Curing Agent Revenue Forecast by Country (2027-2032) & (\$ millions)

Table 87. Middle East & Africa Microencapsulated Imidazole Curing Agent Sales Forecast by Country (2027-2032) & (Tons)

Table 88. Middle East & Africa Microencapsulated Imidazole Curing Agent Revenue Forecast by Country (2027-2032) & (\$ millions)

Table 89. Global Microencapsulated Imidazole Curing Agent Sales Forecast by Activation Temperature (2027-2032) & (Tons)

Table 90. Global Microencapsulated Imidazole Curing Agent Revenue Forecast by Activation Temperature (2027-2032) & (\$ millions)

Table 91. Global Microencapsulated Imidazole Curing Agent Sales Forecast by Application (2027-2032) & (Tons)

Table 92. Global Microencapsulated Imidazole Curing Agent Revenue Forecast by Application (2027-2032) & (\$ millions)

Table 93. Asahi Kasei Corporation Basic Information, Microencapsulated Imidazole Curing Agent Manufacturing Base, Sales Area and Its Competitors

Table 94. Asahi Kasei Corporation Microencapsulated Imidazole Curing Agent Product Portfolios and Specifications

Table 95. Asahi Kasei Corporation Microencapsulated Imidazole Curing Agent Sales (Tons), Revenue (\$ Million), Price (US\$/Ton) and Gross Margin (2021-2026)

Table 96. Asahi Kasei Corporation Main Business

Table 97. Asahi Kasei Corporation Latest Developments

Table 98. Ajinomoto Fine-Techno Co., Inc. Basic Information, Microencapsulated Imidazole Curing Agent Manufacturing Base, Sales Area and Its Competitors

Table 99. Ajinomoto Fine-Techno Co., Inc. Microencapsulated Imidazole Curing Agent Product Portfolios and Specifications

Table 100. Ajinomoto Fine-Techno Co., Inc. Microencapsulated Imidazole Curing Agent Sales (Tons), Revenue (\$ Million), Price (US\$/Ton) and Gross Margin (2021-2026)

Table 101. Ajinomoto Fine-Techno Co., Inc. Main Business

Table 102. Ajinomoto Fine-Techno Co., Inc. Latest Developments

Table 103. Shikoku Chemicals Corporation Basic Information, Microencapsulated Imidazole Curing Agent Manufacturing Base, Sales Area and Its Competitors

Table 104. Shikoku Chemicals Corporation Microencapsulated Imidazole Curing Agent Product Portfolios and Specifications

Table 105. Shikoku Chemicals Corporation Microencapsulated Imidazole Curing Agent Sales (Tons), Revenue (\$ Million), Price (US\$/Ton) and Gross Margin (2021-2026)

Table 106. Shikoku Chemicals Corporation Main Business

Table 107. Shikoku Chemicals Corporation Latest Developments

Table 108. Evonik Industries AG Basic Information, Microencapsulated Imidazole Curing Agent Manufacturing Base, Sales Area and Its Competitors

Table 109. Evonik Industries AG Microencapsulated Imidazole Curing Agent Product Portfolios and Specifications

Table 110. Evonik Industries AG Microencapsulated Imidazole Curing Agent Sales

(Tons), Revenue (\$ Million), Price (US\$/Ton) and Gross Margin (2021-2026)

Table 111. Evonik Industries AG Main Business

Table 112. Evonik Industries AG Latest Developments

Table 113. T&K TOKA Corporation Basic Information, Microencapsulated Imidazole Curing Agent Manufacturing Base, Sales Area and Its Competitors

Table 114. T&K TOKA Corporation Microencapsulated Imidazole Curing Agent Product Portfolios and Specifications

Table 115. T&K TOKA Corporation Microencapsulated Imidazole Curing Agent Sales (Tons), Revenue (\$ Million), Price (US\$/Ton) and Gross Margin (2021-2026)

Table 116. T&K TOKA Corporation Main Business

Table 117. T&K TOKA Corporation Latest Developments

Table 118. Nippon Soda Co., Ltd. Basic Information, Microencapsulated Imidazole Curing Agent Manufacturing Base, Sales Area and Its Competitors

Table 119. Nippon Soda Co., Ltd. Microencapsulated Imidazole Curing Agent Product Portfolios and Specifications

Table 120. Nippon Soda Co., Ltd. Microencapsulated Imidazole Curing Agent Sales (Tons), Revenue (\$ Million), Price (US\$/Ton) and Gross Margin (2021-2026)

Table 121. Nippon Soda Co., Ltd. Main Business

Table 122. Nippon Soda Co., Ltd. Latest Developments

List Of Figures

LIST OF FIGURES

- Figure 1. Picture of Microencapsulated Imidazole Curing Agent
- Figure 2. Microencapsulated Imidazole Curing Agent Report Years Considered
- Figure 3. Research Objectives
- Figure 4. Research Methodology
- Figure 5. Research Process and Data Source
- Figure 6. Global Microencapsulated Imidazole Curing Agent Sales Growth Rate 2021-2032 (Tons)
- Figure 7. Global Microencapsulated Imidazole Curing Agent Revenue Growth Rate 2021-2032 (\$ millions)
- Figure 8. Microencapsulated Imidazole Curing Agent Sales by Geographic Region (2021, 2025 & 2032) & (\$ millions)
- Figure 9. Microencapsulated Imidazole Curing Agent Sales Market Share by Country/Region (2025)
- Figure 10. Microencapsulated Imidazole Curing Agent Sales Market Share by Country/Region (2021, 2025 & 2032)
- Figure 11. Product Picture of ?70°C Ultra-low-temperature Activation
- Figure 12. Product Picture of 70–90°C Low-temperature Activation
- Figure 13. Product Picture of 90–110°C Standard Low-temperature Activation
- Figure 14. Product Picture of 110–130°C Medium-temperature Activation
- Figure 15. Product Picture of 130–150°C High-stability Activation
- Figure 16. Product Picture of >150°C High-temperature Activation
- Figure 17. Global Microencapsulated Imidazole Curing Agent Sales Market Share by Activation Temperature in 2026
- Figure 18. Global Microencapsulated Imidazole Curing Agent Revenue Market Share by Activation Temperature (2021-2026)
- Figure 19. Product Picture of 2-Methylimidazole-based Systems
- Figure 20. Product Picture of 2-Ethyl-4-methylimidazole-based Systems
- Figure 21. Product Picture of 2-Phenylimidazole / Phenyl-substituted Systems
- Figure 22. Product Picture of Imidazole-epoxy Adduct Systems
- Figure 23. Global Microencapsulated Imidazole Curing Agent Sales Market Share by Imidazole Core Chemistry in 2026
- Figure 24. Global Microencapsulated Imidazole Curing Agent Revenue Market Share by Imidazole Core Chemistry (2021-2026)
- Figure 25. Product Picture of Polymer-shell Physical Encapsulation
- Figure 26. Product Picture of In-situ Resin / Epoxy Masterbatch Encapsulation

- Figure 27. Product Picture of Isocyanate / Urea-based Barrier Encapsulation
- Figure 28. Global Microencapsulated Imidazole Curing Agent Sales Market Share by Latency Mechanism in 2026
- Figure 29. Global Microencapsulated Imidazole Curing Agent Revenue Market Share by Latency Mechanism (2021-2026)
- Figure 30. Microencapsulated Imidazole Curing Agent Consumed in Electronics and Semiconductor
- Figure 31. Global Microencapsulated Imidazole Curing Agent Market: Electronics and Semiconductor (2021-2026) & (Tons)
- Figure 32. Microencapsulated Imidazole Curing Agent Consumed in Automotive and Transportation
- Figure 33. Global Microencapsulated Imidazole Curing Agent Market: Automotive and Transportation (2021-2026) & (Tons)
- Figure 34. Microencapsulated Imidazole Curing Agent Consumed in Aerospace and Composite Materials
- Figure 35. Global Microencapsulated Imidazole Curing Agent Market: Aerospace and Composite Materials (2021-2026) & (Tons)
- Figure 36. Microencapsulated Imidazole Curing Agent Consumed in Industrial Adhesives and Sealants
- Figure 37. Global Microencapsulated Imidazole Curing Agent Market: Industrial Adhesives and Sealants (2021-2026) & (Tons)
- Figure 38. Microencapsulated Imidazole Curing Agent Consumed in Coatings and Electrical Insulation
- Figure 39. Global Microencapsulated Imidazole Curing Agent Market: Coatings and Electrical Insulation (2021-2026) & (Tons)
- Figure 40. Global Microencapsulated Imidazole Curing Agent Sale Market Share by Application (2025)
- Figure 41. Global Microencapsulated Imidazole Curing Agent Revenue Market Share by Application in 2025
- Figure 42. Microencapsulated Imidazole Curing Agent Sales by Company in 2025 (Tons)
- Figure 43. Global Microencapsulated Imidazole Curing Agent Sales Market Share by Company in 2025
- Figure 44. Microencapsulated Imidazole Curing Agent Revenue by Company in 2025 (\$ millions)
- Figure 45. Global Microencapsulated Imidazole Curing Agent Revenue Market Share by Company in 2025
- Figure 46. Global Microencapsulated Imidazole Curing Agent Sales Market Share by Geographic Region (2021-2026)

Figure 47. Global Microencapsulated Imidazole Curing Agent Revenue Market Share by Geographic Region in 2025

Figure 48. Americas Microencapsulated Imidazole Curing Agent Sales 2021-2026 (Tons)

Figure 49. Americas Microencapsulated Imidazole Curing Agent Revenue 2021-2026 (\$ millions)

Figure 50. APAC Microencapsulated Imidazole Curing Agent Sales 2021-2026 (Tons)

Figure 51. APAC Microencapsulated Imidazole Curing Agent Revenue 2021-2026 (\$ millions)

Figure 52. Europe Microencapsulated Imidazole Curing Agent Sales 2021-2026 (Tons)

Figure 53. Europe Microencapsulated Imidazole Curing Agent Revenue 2021-2026 (\$ millions)

Figure 54. Middle East & Africa Microencapsulated Imidazole Curing Agent Sales 2021-2026 (Tons)

Figure 55. Middle East & Africa Microencapsulated Imidazole Curing Agent Revenue 2021-2026 (\$ millions)

Figure 56. Americas Microencapsulated Imidazole Curing Agent Sales Market Share by Country in 2025

Figure 57. Americas Microencapsulated Imidazole Curing Agent Revenue Market Share by Country (2021-2026)

Figure 58. Americas Microencapsulated Imidazole Curing Agent Sales Market Share by Activation Temperature (2021-2026)

Figure 59. Americas Microencapsulated Imidazole Curing Agent Sales Market Share by Application (2021-2026)

Figure 60. United States Microencapsulated Imidazole Curing Agent Revenue Growth 2021-2026 (\$ millions)

Figure 61. Canada Microencapsulated Imidazole Curing Agent Revenue Growth 2021-2026 (\$ millions)

Figure 62. Mexico Microencapsulated Imidazole Curing Agent Revenue Growth 2021-2026 (\$ millions)

Figure 63. Brazil Microencapsulated Imidazole Curing Agent Revenue Growth 2021-2026 (\$ millions)

Figure 64. APAC Microencapsulated Imidazole Curing Agent Sales Market Share by Region in 2025

Figure 65. APAC Microencapsulated Imidazole Curing Agent Revenue Market Share by Region (2021-2026)

Figure 66. APAC Microencapsulated Imidazole Curing Agent Sales Market Share by Activation Temperature (2021-2026)

Figure 67. APAC Microencapsulated Imidazole Curing Agent Sales Market Share by

Application (2021-2026)

Figure 68. China Microencapsulated Imidazole Curing Agent Revenue Growth 2021-2026 (\$ millions)

Figure 69. Japan Microencapsulated Imidazole Curing Agent Revenue Growth 2021-2026 (\$ millions)

Figure 70. South Korea Microencapsulated Imidazole Curing Agent Revenue Growth 2021-2026 (\$ millions)

Figure 71. Southeast Asia Microencapsulated Imidazole Curing Agent Revenue Growth 2021-2026 (\$ millions)

Figure 72. India Microencapsulated Imidazole Curing Agent Revenue Growth 2021-2026 (\$ millions)

Figure 73. Australia Microencapsulated Imidazole Curing Agent Revenue Growth 2021-2026 (\$ millions)

Figure 74. China Taiwan Microencapsulated Imidazole Curing Agent Revenue Growth 2021-2026 (\$ millions)

Figure 75. Europe Microencapsulated Imidazole Curing Agent Sales Market Share by Country in 2025

Figure 76. Europe Microencapsulated Imidazole Curing Agent Revenue Market Share by Country (2021-2026)

Figure 77. Europe Microencapsulated Imidazole Curing Agent Sales Market Share by Activation Temperature (2021-2026)

Figure 78. Europe Microencapsulated Imidazole Curing Agent Sales Market Share by Application (2021-2026)

Figure 79. Germany Microencapsulated Imidazole Curing Agent Revenue Growth 2021-2026 (\$ millions)

Figure 80. France Microencapsulated Imidazole Curing Agent Revenue Growth 2021-2026 (\$ millions)

Figure 81. UK Microencapsulated Imidazole Curing Agent Revenue Growth 2021-2026 (\$ millions)

Figure 82. Italy Microencapsulated Imidazole Curing Agent Revenue Growth 2021-2026 (\$ millions)

Figure 83. Russia Microencapsulated Imidazole Curing Agent Revenue Growth 2021-2026 (\$ millions)

Figure 84. Middle East & Africa Microencapsulated Imidazole Curing Agent Sales Market Share by Country (2021-2026)

Figure 85. Middle East & Africa Microencapsulated Imidazole Curing Agent Sales Market Share by Activation Temperature (2021-2026)

Figure 86. Middle East & Africa Microencapsulated Imidazole Curing Agent Sales Market Share by Application (2021-2026)

Figure 87. Egypt Microencapsulated Imidazole Curing Agent Revenue Growth 2021-2026 (\$ millions)

Figure 88. South Africa Microencapsulated Imidazole Curing Agent Revenue Growth 2021-2026 (\$ millions)

Figure 89. Israel Microencapsulated Imidazole Curing Agent Revenue Growth 2021-2026 (\$ millions)

Figure 90. Turkey Microencapsulated Imidazole Curing Agent Revenue Growth 2021-2026 (\$ millions)

Figure 91. GCC Countries Microencapsulated Imidazole Curing Agent Revenue Growth 2021-2026 (\$ millions)

Figure 92. Manufacturing Cost Structure Analysis of Microencapsulated Imidazole Curing Agent in 2026

Figure 93. Manufacturing Process Analysis of Microencapsulated Imidazole Curing Agent

Figure 94. Industry Chain Structure of Microencapsulated Imidazole Curing Agent

Figure 95. Channels of Distribution

Figure 96. Global Microencapsulated Imidazole Curing Agent Sales Market Forecast by Region (2027-2032)

Figure 97. Global Microencapsulated Imidazole Curing Agent Revenue Market Share Forecast by Region (2027-2032)

Figure 98. Global Microencapsulated Imidazole Curing Agent Sales Market Share Forecast by Activation Temperature (2027-2032)

Figure 99. Global Microencapsulated Imidazole Curing Agent Revenue Market Share Forecast by Activation Temperature (2027-2032)

Figure 100. Global Microencapsulated Imidazole Curing Agent Sales Market Share Forecast by Application (2027-2032)

Figure 101. Global Microencapsulated Imidazole Curing Agent Revenue Market Share Forecast by Application (2027-2032)

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