

# Global M9 Grade EX Hydrocarbon Resin Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

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## Abstracts

According to our (Global Info Research) latest study, the global M9 Grade EX Hydrocarbon Resin market size was valued at US\$ 8.54 million in 2025 and is forecast to a readjusted size of US\$ 91.66 million by 2032 with a CAGR of 28.3% during review period.

M9 Grade EX Hydrocarbon Resin refers to ultra-low dielectric loss hydrocarbon resin synthesized by polymerization with acenaphthylene (a fused-ring aromatic hydrocarbon monomer) as reactive group. Among M9 CCL technology routes, it is positioned as an emerging cost-effective route. EX resin features a rigid fused-ring and reactive double bond structure, achieving Df as low as 0.0006 and Dk as low as 2.54 at 15GHz, with high thermal stability (Tg up to 223?), low coefficient of thermal expansion, and excellent dielectric properties, approaching or partially exceeding ODV route performance, while costs are 30%-40% lower than comparable imported products. The core value of EX resin lies in delivering M9-grade ultra-low loss performance with significant cost advantages through simplified processing and localized raw material supply, making it the only route combining “high performance + low cost” among M9-grade hydrocarbon resins.

M9 Grade EX hydrocarbon resin is the “cost?performance dark horse” among M9 resin technology routes. Its core advantage lies in dielectric performance close to ODV (Df as low as 0.0006) while costing 30?40% less than comparable imported products. Pricing: domestic EX resin (Malion/Huihong) sells at ~RMB 600,000/ton, far below ODV (~RMB 1,000,000/ton) and BCB (~RMB 2,000,000/ton), making it a key option for cost reduction in M9 formulations. Margins: Malion’s EX resin net margin exceeds 50%, significantly higher than peers (20?30%), thanks to its 200?ton/year line running at full

capacity, high raw material self-sufficiency, and market scarcity. As capacity expands to 500 tons/year, economies of scale may further boost margins. Downstream primary applications: EX resin is currently used in M8/M9 AI server motherboards and OAM accelerator cards as a supplement or substitute for ODV. Some international customers (e.g., Japanese CCL leaders) are shifting from ODV to EX resin because it meets performance specs while substantially reducing BOM costs. Incremental demand is driven by the Rubin platform mass production – global electronic-grade hydrocarbon resin demand is expected to reach 8,000 tons in 2026, and EX resin, with its cost advantage, could capture 20-30% of that share. Upstream-downstream structure: upstream acenaphthylene monomer supplied mainly by JFE Chemical, Keying Chem; mid-stream EX resin synthesis is exclusively mass-produced in China by Malion/Huihong, with Japanese players (Hitachi Chemical, Sumitomo Bakelite) having technical reserves but limited capacity; downstream CCL makers (EMC, Shengyi, ITEQ) have certified EX resin solutions and are ready for volume adoption. Landscape: Malion holds a dominant position in EX resin within China, competing globally with Hitachi Chemical and Sumitomo Bakelite, but is rapidly gaining share due to cost advantages and capacity flexibility. The biggest strength of the EX route is its ability to scale quickly – Malion's 200-ton line is already at full capacity, and expansion to 500 tons is underway, whereas ODV/BCB expansion is constrained by technical barriers and raw material supply. Uncertainties include: (1) yield and cost control after Malion's new 500-ton line comes online; (2) whether EX resin's penetration in M9 formulations can continue to rise, or whether ODV/BCB price cuts will erode its cost-performance advantage; (3) acenaphthylene raw material price volatility. Conclusion: M9 EX hydrocarbon resin is the only M9 resin route that combines "high performance + low cost". Its core driver is CCL makers' rigid need to reduce BOM costs while maintaining performance. Structural features are domestic exclusive mass production, significant cost advantage, and strong expansion flexibility, but technical barriers are lower than ODV/BCB, potentially facing price competition in the long term. The EX route's greatest value is providing a "good enough and cheaper" option for the M9 market, poised for rapid share gain during the 2026-2027 M9 volume ramp-up.

This report is a detailed and comprehensive analysis for global M9 Grade EX Hydrocarbon Resin market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

## Key Features:

Global M9 Grade EX Hydrocarbon Resin market size and forecasts, in consumption value (\$ Million), sales quantity (Tons), and average selling prices (US\$/Ton), 2021-2032

Global M9 Grade EX Hydrocarbon Resin market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (Tons), and average selling prices (US\$/Ton), 2021-2032

Global M9 Grade EX Hydrocarbon Resin market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (Tons), and average selling prices (US\$/Ton), 2021-2032

Global M9 Grade EX Hydrocarbon Resin market shares of main players, shipments in revenue (\$ Million), sales quantity (Tons), and ASP (US\$/Ton), 2021-2026

## The Primary Objectives in This Report Are:

- To determine the size of the total market opportunity of global and key countries
- To assess the growth potential for M9 Grade EX Hydrocarbon Resin
- To forecast future growth in each product and end-use market
- To assess competitive factors affecting the marketplace

This report profiles key players in the global M9 Grade EX Hydrocarbon Resin market based on the following parameters - company overview, sales quantity, revenue, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Huihong Technology (subsidiary of Malion New Materials), JFE Chemical, Resonac (formerly Hitachi Chemical), Sumitomo Bakelite, Keying Chem, Beida Industry, Ningbo Inno Pharmchem, etc.

This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

## Market Segmentation

M9 Grade EX Hydrocarbon Resin market is split by Type and by Application. For the period 2021-2032, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

#### Market segment by Type

Standard EX (Df 0.0010–0.0020, Dk 2.7–2.9)

Low-loss EX (Df 0.0006–0.0010, Dk 2.5–2.7)

Ultra-low Loss EX (Df

## Contents

### 1 MARKET OVERVIEW

1.1 Product Overview and Scope

1.2 Market Estimation Caveats and Base Year

1.3 Market Analysis by Type

1.3.1 Overview: Global M9 Grade EX Hydrocarbon Resin Consumption Value by Type:  
2021 Versus 2025 Versus 2032

1.3.2 Standard EX (Df 0.0010–0.0020, Dk 2.7–2.9)

1.3.3 Low-loss EX (Df 0.0006–0.0010, Dk 2.5–2.7)

1.3.4 Ultra-low Loss EX (Df

## List Of Tables

### LIST OF TABLES

Table 1. Global M9 Grade EX Hydrocarbon Resin Consumption Value by Type, (USD Million), 2021 & 2025 & 2032

Table 2. Global M9 Grade EX Hydrocarbon Resin Consumption Value by Molecular Structure, (USD Million), 2021 & 2025 & 2032

Table 3. Global M9 Grade EX Hydrocarbon Resin Consumption Value by Application, (USD Million), 2021 & 2025 & 2032

Table 4. Huihong Technology (subsidiary of Malion New Materials) Basic Information, Manufacturing Base and Competitors

Table 5. Huihong Technology (subsidiary of Malion New Materials) Major Business

Table 6. Huihong Technology (subsidiary of Malion New Materials) M9 Grade EX Hydrocarbon Resin Product and Services

Table 7. Huihong Technology (subsidiary of Malion New Materials) M9 Grade EX Hydrocarbon Resin Sales Quantity (Tons), Average Price (US\$/Ton), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 8. Huihong Technology (subsidiary of Malion New Materials) Recent Developments/Updates

Table 9. JFE Chemical Basic Information, Manufacturing Base and Competitors

Table 10. JFE Chemical Major Business

Table 11. JFE Chemical M9 Grade EX Hydrocarbon Resin Product and Services

Table 12. JFE Chemical M9 Grade EX Hydrocarbon Resin Sales Quantity (Tons), Average Price (US\$/Ton), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 13. JFE Chemical Recent Developments/Updates

Table 14. Resonac (formerly Hitachi Chemical) Basic Information, Manufacturing Base and Competitors

Table 15. Resonac (formerly Hitachi Chemical) Major Business

Table 16. Resonac (formerly Hitachi Chemical) M9 Grade EX Hydrocarbon Resin Product and Services

Table 17. Resonac (formerly Hitachi Chemical) M9 Grade EX Hydrocarbon Resin Sales Quantity (Tons), Average Price (US\$/Ton), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 18. Resonac (formerly Hitachi Chemical) Recent Developments/Updates

Table 19. Sumitomo Bakelite Basic Information, Manufacturing Base and Competitors

Table 20. Sumitomo Bakelite Major Business

Table 21. Sumitomo Bakelite M9 Grade EX Hydrocarbon Resin Product and Services

Table 22. Sumitomo Bakelite M9 Grade EX Hydrocarbon Resin Sales Quantity (Tons), Average Price (US\$/Ton), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 23. Sumitomo Bakelite Recent Developments/Updates

Table 24. Keying Chem Basic Information, Manufacturing Base and Competitors

Table 25. Keying Chem Major Business

Table 26. Keying Chem M9 Grade EX Hydrocarbon Resin Product and Services

Table 27. Keying Chem M9 Grade EX Hydrocarbon Resin Sales Quantity (Tons), Average Price (US\$/Ton), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 28. Keying Chem Recent Developments/Updates

Table 29. Beida Industry Basic Information, Manufacturing Base and Competitors

Table 30. Beida Industry Major Business

Table 31. Beida Industry M9 Grade EX Hydrocarbon Resin Product and Services

Table 32. Beida Industry M9 Grade EX Hydrocarbon Resin Sales Quantity (Tons), Average Price (US\$/Ton), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 33. Beida Industry Recent Developments/Updates

Table 34. Ningbo Inno Pharmchem Basic Information, Manufacturing Base and Competitors

Table 35. Ningbo Inno Pharmchem Major Business

Table 36. Ningbo Inno Pharmchem M9 Grade EX Hydrocarbon Resin Product and Services

Table 37. Ningbo Inno Pharmchem M9 Grade EX Hydrocarbon Resin Sales Quantity (Tons), Average Price (US\$/Ton), Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 38. Ningbo Inno Pharmchem Recent Developments/Updates

Table 39. Global M9 Grade EX Hydrocarbon Resin Sales Quantity by Manufacturer (2021-2026) & (Tons)

Table 40. Global M9 Grade EX Hydrocarbon Resin Revenue by Manufacturer (2021-2026) & (USD Million)

Table 41. Global M9 Grade EX Hydrocarbon Resin Average Price by Manufacturer (2021-2026) & (US\$/Ton)

Table 42. Market Position of Manufacturers in M9 Grade EX Hydrocarbon Resin, (Tier 1, Tier 2, and Tier 3), Based on Revenue in 2025

Table 43. Head Office and M9 Grade EX Hydrocarbon Resin Production Site of Key Manufacturer

Table 44. M9 Grade EX Hydrocarbon Resin Market: Company Product Type Footprint

Table 45. M9 Grade EX Hydrocarbon Resin Market: Company Product Application

**Footprint**

Table 46. M9 Grade EX Hydrocarbon Resin New Market Entrants and Barriers to Market Entry

Table 47. M9 Grade EX Hydrocarbon Resin Mergers, Acquisition, Agreements, and Collaborations

Table 48. Global M9 Grade EX Hydrocarbon Resin Consumption Value by Region (2021-2025-2032) & (USD Million) & CAGR

Table 49. Global M9 Grade EX Hydrocarbon Resin Sales Quantity by Region (2021-2026) & (Tons)

Table 50. Global M9 Grade EX Hydrocarbon Resin Sales Quantity by Region (2027-2032) & (Tons)

Table 51. Global M9 Grade EX Hydrocarbon Resin Consumption Value by Region (2021-2026) & (USD Million)

Table 52. Global M9 Grade EX Hydrocarbon Resin Consumption Value by Region (2027-2032) & (USD Million)

Table 53. Global M9 Grade EX Hydrocarbon Resin Average Price by Region (2021-2026) & (US\$/Ton)

Table 54. Global M9 Grade EX Hydrocarbon Resin Average Price by Region (2027-2032) & (US\$/Ton)

Table 55. Global M9 Grade EX Hydrocarbon Resin Sales Quantity by Type (2021-2026) & (Tons)

Table 56. Global M9 Grade EX Hydrocarbon Resin Sales Quantity by Type (2027-2032) & (Tons)

Table 57. Global M9 Grade EX Hydrocarbon Resin Consumption Value by Type (2021-2026) & (USD Million)

Table 58. Global M9 Grade EX Hydrocarbon Resin Consumption Value by Type (2027-2032) & (USD Million)

Table 59. Global M9 Grade EX Hydrocarbon Resin Average Price by Type (2021-2026) & (US\$/Ton)

Table 60. Global M9 Grade EX Hydrocarbon Resin Average Price by Type (2027-2032) & (US\$/Ton)

Table 61. Global M9 Grade EX Hydrocarbon Resin Sales Quantity by Application (2021-2026) & (Tons)

Table 62. Global M9 Grade EX Hydrocarbon Resin Sales Quantity by Application (2027-2032) & (Tons)

Table 63. Global M9 Grade EX Hydrocarbon Resin Consumption Value by Application (2021-2026) & (USD Million)

Table 64. Global M9 Grade EX Hydrocarbon Resin Consumption Value by Application (2027-2032) & (USD Million)

Table 65. Global M9 Grade EX Hydrocarbon Resin Average Price by Application (2021-2026) & (US\$/Ton)

Table 66. Global M9 Grade EX Hydrocarbon Resin Average Price by Application (2027-2032) & (US\$/Ton)

Table 67. North America M9 Grade EX Hydrocarbon Resin Sales Quantity by Type (2021-2026) & (Tons)

Table 68. North America M9 Grade EX Hydrocarbon Resin Sales Quantity by Type (2027-2032) & (Tons)

Table 69. North America M9 Grade EX Hydrocarbon Resin Sales Quantity by Application (2021-2026) & (Tons)

Table 70. North America M9 Grade EX Hydrocarbon Resin Sales Quantity by Application (2027-2032) & (Tons)

Table 71. North America M9 Grade EX Hydrocarbon Resin Sales Quantity by Country (2021-2026) & (Tons)

Table 72. North America M9 Grade EX Hydrocarbon Resin Sales Quantity by Country (2027-2032) & (Tons)

Table 73. North America M9 Grade EX Hydrocarbon Resin Consumption Value by Country (2021-2026) & (USD Million)

Table 74. North America M9 Grade EX Hydrocarbon Resin Consumption Value by Country (2027-2032) & (USD Million)

Table 75. Europe M9 Grade EX Hydrocarbon Resin Sales Quantity by Type (2021-2026) & (Tons)

Table 76. Europe M9 Grade EX Hydrocarbon Resin Sales Quantity by Type (2027-2032) & (Tons)

Table 77. Europe M9 Grade EX Hydrocarbon Resin Sales Quantity by Application (2021-2026) & (Tons)

Table 78. Europe M9 Grade EX Hydrocarbon Resin Sales Quantity by Application (2027-2032) & (Tons)

Table 79. Europe M9 Grade EX Hydrocarbon Resin Sales Quantity by Country (2021-2026) & (Tons)

Table 80. Europe M9 Grade EX Hydrocarbon Resin Sales Quantity by Country (2027-2032) & (Tons)

Table 81. Europe M9 Grade EX Hydrocarbon Resin Consumption Value by Country (2021-2026) & (USD Million)

Table 82. Europe M9 Grade EX Hydrocarbon Resin Consumption Value by Country (2027-2032) & (USD Million)

Table 83. Asia-Pacific M9 Grade EX Hydrocarbon Resin Sales Quantity by Type (2021-2026) & (Tons)

Table 84. Asia-Pacific M9 Grade EX Hydrocarbon Resin Sales Quantity by Type

(2027-2032) & (Tons)

Table 85. Asia-Pacific M9 Grade EX Hydrocarbon Resin Sales Quantity by Application (2021-2026) & (Tons)

Table 86. Asia-Pacific M9 Grade EX Hydrocarbon Resin Sales Quantity by Application (2027-2032) & (Tons)

Table 87. Asia-Pacific M9 Grade EX Hydrocarbon Resin Sales Quantity by Region (2021-2026) & (Tons)

Table 88. Asia-Pacific M9 Grade EX Hydrocarbon Resin Sales Quantity by Region (2027-2032) & (Tons)

Table 89. Asia-Pacific M9 Grade EX Hydrocarbon Resin Consumption Value by Region (2021-2026) & (USD Million)

Table 90. Asia-Pacific M9 Grade EX Hydrocarbon Resin Consumption Value by Region (2027-2032) & (USD Million)

Table 91. South America M9 Grade EX Hydrocarbon Resin Sales Quantity by Type (2021-2026) & (Tons)

Table 92. South America M9 Grade EX Hydrocarbon Resin Sales Quantity by Type (2027-2032) & (Tons)

Table 93. South America M9 Grade EX Hydrocarbon Resin Sales Quantity by Application (2021-2026) & (Tons)

Table 94. South America M9 Grade EX Hydrocarbon Resin Sales Quantity by Application (2027-2032) & (Tons)

Table 95. South America M9 Grade EX Hydrocarbon Resin Sales Quantity by Country (2021-2026) & (Tons)

Table 96. South America M9 Grade EX Hydrocarbon Resin Sales Quantity by Country (2027-2032) & (Tons)

Table 97. South America M9 Grade EX Hydrocarbon Resin Consumption Value by Country (2021-2026) & (USD Million)

Table 98. South America M9 Grade EX Hydrocarbon Resin Consumption Value by Country (2027-2032) & (USD Million)

Table 99. Middle East & Africa M9 Grade EX Hydrocarbon Resin Sales Quantity by Type (2021-2026) & (Tons)

Table 100. Middle East & Africa M9 Grade EX Hydrocarbon Resin Sales Quantity by Type (2027-2032) & (Tons)

Table 101. Middle East & Africa M9 Grade EX Hydrocarbon Resin Sales Quantity by Application (2021-2026) & (Tons)

Table 102. Middle East & Africa M9 Grade EX Hydrocarbon Resin Sales Quantity by Application (2027-2032) & (Tons)

Table 103. Middle East & Africa M9 Grade EX Hydrocarbon Resin Sales Quantity by Country (2021-2026) & (Tons)

Table 104. Middle East & Africa M9 Grade EX Hydrocarbon Resin Sales Quantity by Country (2027-2032) & (Tons)

Table 105. Middle East & Africa M9 Grade EX Hydrocarbon Resin Consumption Value by Country (2021-2026) & (USD Million)

Table 106. Middle East & Africa M9 Grade EX Hydrocarbon Resin Consumption Value by Country (2027-2032) & (USD Million)

Table 107. M9 Grade EX Hydrocarbon Resin Raw Material

Table 108. Key Manufacturers of M9 Grade EX Hydrocarbon Resin Raw Materials

Table 109. M9 Grade EX Hydrocarbon Resin Typical Distributors

Table 110. M9 Grade EX Hydrocarbon Resin Typical Customers

## List Of Figures

### LIST OF FIGURES

Figure 1. M9 Grade EX Hydrocarbon Resin Picture

Figure 2. Global M9 Grade EX Hydrocarbon Resin Revenue by Type, (USD Million), 2021 & 2025 & 2032

Figure 3. Global M9 Grade EX Hydrocarbon Resin Revenue Market Share by Type in 2025

Figure 4. Standard EX (Df 0.0010–0.0020, Dk 2.7–2.9) Examples

Figure 5. Low-loss EX (Df 0.0006–0.0010, Dk 2.5–2.7) Examples

Figure 6. Ultra-low Loss EX (Df

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