

Global Metal Ion Separation Extractant Market Growth 2026-2032

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Abstracts

The global Metal Ion Separation Extractant market size is predicted to grow from US\$ 548 million in 2025 to US\$ 878 million in 2032; it is expected to grow at a CAGR of 7.1% from 2026 to 2032.

In 2025, global sales of Metal Ion Separation Extractant reached approximately 80 k tons, with an average market price of about USD 7000 ton, an annual production capacity of roughly 95 k tons, and an industry-average gross margin of approximately 30%.

Metal Ion Separation Extractants are industrial organic functional chemicals used in hydrometallurgical solvent extraction processes to selectively transfer target metal ions or metal-complex species from an aqueous phase into an organic phase through complexation, chelation, cation exchange, anion exchange, or solvating mechanisms, followed by stripping, washing, regeneration, and recycling of the organic phase. This study focuses on active extractants and formulated extractant systems used in industrial metal separation and recovery, including hydroxyoxime copper extractants, acidic organophosphorus extractants, neutral organophosphorus solvating extractants, amine and quaternary ammonium extractants, carboxylic acid extractants, and customized systems for lithium, rare earths, battery black mass, uranium, vanadium, molybdenum, nickel, cobalt, manganese, and high-purity metal production. Key performance parameters include selectivity, distribution ratio, loading capacity, phase disengagement, stripping efficiency, organic loss, chemical stability, impurity tolerance, compatibility with diluents and modifiers, cycle life, and industrial safety and environmental performance.

Based on our research, Metal Ion Separation Extractants should be treated as

functional hydrometallurgical materials rather than generic commodity chemicals. The mature base of the market is supported by copper SX-EW, rare earth separation, uranium extraction, and conventional nickel-cobalt separation, while the growth layer is increasingly linked to battery black mass recycling, laterite processing, lithium brines, rare earth supply security, and high-purity metal production. The industry's entry barriers are not defined only by chemical synthesis capacity. Long-term process validation, phase behavior stability, selectivity under complex impurity profiles, organic loss control, and technical support at the customer's solvent extraction circuit are equally important. Once an extractant is validated in a continuous hydrometallurgical flow sheet, switching costs are high, which gives established suppliers strong customer stickiness.

Demand growth is expected to be more resilient than that of ordinary mining reagents because the product is tied to critical minerals and downstream electrification. Copper provides the mature volume base, while nickel, cobalt, manganese, lithium, and battery recycling provide incremental growth. Rare earth and scandium separation may show stronger policy-driven volatility, especially as governments and downstream manufacturers seek more secure supply chains. China's export control actions related to certain rare earth production extractants further highlight the strategic relevance of P204/P507-type products in critical mineral supply chains. This does not mean that all suppliers will benefit equally; the advantage will accrue to companies with proven industrial performance, stable quality, local regulatory compliance, and the ability to support customers during scale-up.

The main substitution risks come from ion exchange resins, adsorption materials, membranes, precipitation routes, and certain direct lithium extraction technologies. However, solvent extraction remains difficult to displace in many large-scale continuous hydrometallurgical circuits because it offers high throughput, adjustable selectivity, proven scale-up, and established process economics. Over the next cycle, competitive differentiation is likely to move toward low-loss formulations, greener diluent compatibility, faster phase disengagement, improved impurity tolerance, and regionally resilient supply chains. Suppliers that combine chemistry, formulation know-how, application engineering, and local manufacturing will be better positioned than companies offering only generic chemical intermediates.

LP Information, Inc. (LPI)'s newest research report, the "Metal Ion Separation Extractant Industry Forecast" looks at past sales and reviews total world Metal Ion Separation Extractant sales in 2025, providing a comprehensive analysis by region and market sector of projected Metal Ion Separation Extractant sales for 2026 through 2032. With

Metal Ion Separation Extractant sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world Metal Ion Separation Extractant industry.

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

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Metal Ion Separation Extractant 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 Metal Ion Separation Extractant.

This report presents a comprehensive overview, market shares, and growth opportunities of Metal Ion Separation Extractant market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

Copper Extractant

New Energy Metal Extractant (Cobalt, Nickel, etc.)

Others

Segmentation by Form:

Neat Active Extractants

Formulated Extractant Blends

Segmentation by Extraction Mechanism:

Cation Exchange

Anion Exchange

Segmentation by Application:

Mineral Processing

Metallurgy

Others

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.

ZIJIN

Syensqo

Deyuan Chemical

BASF

KopperChem

Italmatch

DAIHACHI Chemical

Sanmenxia Zhongda Chemical

Sannuo Chemical

Jiangxi Jiexin

Key Questions Addressed in this Report

What is the 10-year outlook for the global Metal Ion Separation Extractant market?

What factors are driving Metal Ion Separation Extractant market growth, globally and by region?

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

How do Metal Ion Separation Extractant market opportunities vary by end market size?

How does Metal Ion Separation Extractant 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 Metal Ion Separation Extractant Annual Sales 2021-2032
 - 2.1.2 World Current & Future Analysis for Metal Ion Separation Extractant by Geographic Region, 2021, 2025 & 2032
 - 2.1.3 World Current & Future Analysis for Metal Ion Separation Extractant by Country/Region, 2021, 2025 & 2032
- 2.2 Metal Ion Separation Extractant Segment by Type
 - 2.2.1 Copper Extractant
 - 2.2.2 New Energy Metal Extractant (Cobalt, Nickel, etc.?)
 - 2.2.3 Others
 - 2.2.4 Metal Ion Separation Extractant Sales by Type
 - 2.2.4.1 Global Metal Ion Separation Extractant Sales Market Share by Type (2021-2026)
 - 2.2.4.2 Global Metal Ion Separation Extractant Revenue and Market Share by Type (2021-2026)
 - 2.2.4.3 Global Metal Ion Separation Extractant Sale Price by Type (2021-2026)
- 2.3 Metal Ion Separation Extractant Segment by Form
 - 2.3.1 Neat Active Extractants
 - 2.3.2 Formulated Extractant Blends
 - 2.3.3 Metal Ion Separation Extractant Sales by Form
 - 2.3.3.1 Global Metal Ion Separation Extractant Sales Market Share by Form (2021-2026)
 - 2.3.3.2 Global Metal Ion Separation Extractant Revenue and Market Share by Form (2021-2026)

- 2.3.3.3 Global Metal Ion Separation Extractant Sale Price by Form (2021-2026)
- 2.4 Metal Ion Separation Extractant Segment by Extraction Mechanism
 - 2.4.1 Cation Exchange
 - 2.4.2 Anion Exchange
 - 2.4.3 Metal Ion Separation Extractant Sales by Extraction Mechanism
 - 2.4.3.1 Global Metal Ion Separation Extractant Sales Market Share by Extraction Mechanism (2021-2026)
 - 2.4.3.2 Global Metal Ion Separation Extractant Revenue and Market Share by Extraction Mechanism (2021-2026)
 - 2.4.3.3 Global Metal Ion Separation Extractant Sale Price by Extraction Mechanism (2021-2026)
- 2.5 Metal Ion Separation Extractant Segment by Application
 - 2.5.1 Mineral Processing
 - 2.5.2 Metallurgy
 - 2.5.3 Others
 - 2.5.4 Metal Ion Separation Extractant Sales by Application
 - 2.5.4.1 Global Metal Ion Separation Extractant Sale Market Share by Application (2021-2026)
 - 2.5.4.2 Global Metal Ion Separation Extractant Revenue and Market Share by Application (2021-2026)
 - 2.5.4.3 Global Metal Ion Separation Extractant Sale Price by Application (2021-2026)

3 GLOBAL BY COMPANY

- 3.1 Global Metal Ion Separation Extractant Breakdown Data by Company
 - 3.1.1 Global Metal Ion Separation Extractant Annual Sales by Company (2021-2026)
 - 3.1.2 Global Metal Ion Separation Extractant Sales Market Share by Company (2021-2026)
- 3.2 Global Metal Ion Separation Extractant Annual Revenue by Company (2021-2026)
 - 3.2.1 Global Metal Ion Separation Extractant Revenue by Company (2021-2026)
 - 3.2.2 Global Metal Ion Separation Extractant Revenue Market Share by Company (2021-2026)
- 3.3 Global Metal Ion Separation Extractant Sale Price by Company
- 3.4 Key Manufacturers Metal Ion Separation Extractant Producing Area Distribution, Sales Area, Product Type
 - 3.4.1 Key Manufacturers Metal Ion Separation Extractant Product Location Distribution
 - 3.4.2 Players Metal Ion Separation Extractant 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 METAL ION SEPARATION EXTRACTANT BY GEOGRAPHIC REGION

- 4.1 World Historic Metal Ion Separation Extractant Market Size by Geographic Region (2021-2026)
 - 4.1.1 Global Metal Ion Separation Extractant Annual Sales by Geographic Region (2021-2026)
 - 4.1.2 Global Metal Ion Separation Extractant Annual Revenue by Geographic Region (2021-2026)
- 4.2 World Historic Metal Ion Separation Extractant Market Size by Country/Region (2021-2026)
 - 4.2.1 Global Metal Ion Separation Extractant Annual Sales by Country/Region (2021-2026)
 - 4.2.2 Global Metal Ion Separation Extractant Annual Revenue by Country/Region (2021-2026)
- 4.3 Americas Metal Ion Separation Extractant Sales Growth
- 4.4 APAC Metal Ion Separation Extractant Sales Growth
- 4.5 Europe Metal Ion Separation Extractant Sales Growth
- 4.6 Middle East & Africa Metal Ion Separation Extractant Sales Growth

5 AMERICAS

- 5.1 Americas Metal Ion Separation Extractant Sales by Country
 - 5.1.1 Americas Metal Ion Separation Extractant Sales by Country (2021-2026)
 - 5.1.2 Americas Metal Ion Separation Extractant Revenue by Country (2021-2026)
- 5.2 Americas Metal Ion Separation Extractant Sales by Type (2021-2026)
- 5.3 Americas Metal Ion Separation Extractant Sales by Application (2021-2026)
- 5.4 United States
- 5.5 Canada
- 5.6 Mexico
- 5.7 Brazil

6 APAC

- 6.1 APAC Metal Ion Separation Extractant Sales by Region

- 6.1.1 APAC Metal Ion Separation Extractant Sales by Region (2021-2026)
- 6.1.2 APAC Metal Ion Separation Extractant Revenue by Region (2021-2026)
- 6.2 APAC Metal Ion Separation Extractant Sales by Type (2021-2026)
- 6.3 APAC Metal Ion Separation Extractant 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 Metal Ion Separation Extractant by Country
 - 7.1.1 Europe Metal Ion Separation Extractant Sales by Country (2021-2026)
 - 7.1.2 Europe Metal Ion Separation Extractant Revenue by Country (2021-2026)
- 7.2 Europe Metal Ion Separation Extractant Sales by Type (2021-2026)
- 7.3 Europe Metal Ion Separation Extractant 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 Metal Ion Separation Extractant by Country
 - 8.1.1 Middle East & Africa Metal Ion Separation Extractant Sales by Country (2021-2026)
 - 8.1.2 Middle East & Africa Metal Ion Separation Extractant Revenue by Country (2021-2026)
- 8.2 Middle East & Africa Metal Ion Separation Extractant Sales by Type (2021-2026)
- 8.3 Middle East & Africa Metal Ion Separation Extractant 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 Metal Ion Separation Extractant

10.3 Manufacturing Process Analysis of Metal Ion Separation Extractant

10.4 Industry Chain Structure of Metal Ion Separation Extractant

11 MARKETING, DISTRIBUTORS AND CUSTOMER

11.1 Sales Channel

11.1.1 Direct Channels

11.1.2 Indirect Channels

11.2 Metal Ion Separation Extractant Distributors

11.3 Metal Ion Separation Extractant Customer

12 WORLD FORECAST REVIEW FOR METAL ION SEPARATION EXTRACTANT BY GEOGRAPHIC REGION

12.1 Global Metal Ion Separation Extractant Market Size Forecast by Region

12.1.1 Global Metal Ion Separation Extractant Forecast by Region (2027-2032)

12.1.2 Global Metal Ion Separation Extractant 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 Metal Ion Separation Extractant Forecast by Type (2027-2032)

12.7 Global Metal Ion Separation Extractant Forecast by Application (2027-2032)

13 KEY PLAYERS ANALYSIS

13.1 ZIJIN

13.1.1 ZIJIN Company Information

13.1.2 ZIJIN Metal Ion Separation Extractant Product Portfolios and Specifications

13.1.3 ZIJIN Metal Ion Separation Extractant Sales, Revenue, Price and Gross Margin (2021-2026)

13.1.4 ZIJIN Main Business Overview

13.1.5 ZIJIN Latest Developments

13.2 Syensqo

13.2.1 Syensqo Company Information

13.2.2 Syensqo Metal Ion Separation Extractant Product Portfolios and Specifications

13.2.3 Syensqo Metal Ion Separation Extractant Sales, Revenue, Price and Gross Margin (2021-2026)

13.2.4 Syensqo Main Business Overview

13.2.5 Syensqo Latest Developments

13.3 Deyuan Chemical

13.3.1 Deyuan Chemical Company Information

13.3.2 Deyuan Chemical Metal Ion Separation Extractant Product Portfolios and Specifications

13.3.3 Deyuan Chemical Metal Ion Separation Extractant Sales, Revenue, Price and Gross Margin (2021-2026)

13.3.4 Deyuan Chemical Main Business Overview

13.3.5 Deyuan Chemical Latest Developments

13.4 BASF

13.4.1 BASF Company Information

13.4.2 BASF Metal Ion Separation Extractant Product Portfolios and Specifications

13.4.3 BASF Metal Ion Separation Extractant Sales, Revenue, Price and Gross Margin (2021-2026)

13.4.4 BASF Main Business Overview

13.4.5 BASF Latest Developments

13.5 KopperChem

13.5.1 KopperChem Company Information

13.5.2 KopperChem Metal Ion Separation Extractant Product Portfolios and Specifications

13.5.3 KopperChem Metal Ion Separation Extractant Sales, Revenue, Price and Gross Margin (2021-2026)

13.5.4 KopperChem Main Business Overview

13.5.5 KopperChem Latest Developments

13.6 Italmatch

13.6.1 Italmatch Company Information

- 13.6.2 Italmatch Metal Ion Separation Extractant Product Portfolios and Specifications
- 13.6.3 Italmatch Metal Ion Separation Extractant Sales, Revenue, Price and Gross Margin (2021-2026)
- 13.6.4 Italmatch Main Business Overview
- 13.6.5 Italmatch Latest Developments
- 13.7 DAIHACHI Chemical
 - 13.7.1 DAIHACHI Chemical Company Information
 - 13.7.2 DAIHACHI Chemical Metal Ion Separation Extractant Product Portfolios and Specifications
 - 13.7.3 DAIHACHI Chemical Metal Ion Separation Extractant Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.7.4 DAIHACHI Chemical Main Business Overview
 - 13.7.5 DAIHACHI Chemical Latest Developments
- 13.8 Sanmenxia Zhongda Chemical
 - 13.8.1 Sanmenxia Zhongda Chemical Company Information
 - 13.8.2 Sanmenxia Zhongda Chemical Metal Ion Separation Extractant Product Portfolios and Specifications
 - 13.8.3 Sanmenxia Zhongda Chemical Metal Ion Separation Extractant Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.8.4 Sanmenxia Zhongda Chemical Main Business Overview
 - 13.8.5 Sanmenxia Zhongda Chemical Latest Developments
- 13.9 Sannuo Chemical
 - 13.9.1 Sannuo Chemical Company Information
 - 13.9.2 Sannuo Chemical Metal Ion Separation Extractant Product Portfolios and Specifications
 - 13.9.3 Sannuo Chemical Metal Ion Separation Extractant Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.9.4 Sannuo Chemical Main Business Overview
 - 13.9.5 Sannuo Chemical Latest Developments
- 13.10 Jiangxi Jiexin
 - 13.10.1 Jiangxi Jiexin Company Information
 - 13.10.2 Jiangxi Jiexin Metal Ion Separation Extractant Product Portfolios and Specifications
 - 13.10.3 Jiangxi Jiexin Metal Ion Separation Extractant Sales, Revenue, Price and Gross Margin (2021-2026)
 - 13.10.4 Jiangxi Jiexin Main Business Overview
 - 13.10.5 Jiangxi Jiexin Latest Developments

14 RESEARCH FINDINGS AND CONCLUSION

List Of Tables

LIST OF TABLES

Table 1. Metal Ion Separation Extractant Annual Sales CAGR by Geographic Region (2021, 2025 & 2032) & (\$ millions)

Table 2. Metal Ion Separation Extractant Annual Sales CAGR by Country/Region (2021, 2025 & 2032) & (\$ millions)

Table 3. Major Players of Copper Extractant

Table 4. Major Players of New Energy Metal Extractant (Cobalt, Nickel, etc.?)

Table 5. Major Players of Others

Table 6. Global Metal Ion Separation Extractant Sales by Type (2021-2026) & (Kilotons)

Table 7. Global Metal Ion Separation Extractant Sales Market Share by Type (2021-2026)

Table 8. Global Metal Ion Separation Extractant Revenue by Type (2021-2026) & (\$ million)

Table 9. Global Metal Ion Separation Extractant Revenue Market Share by Type (2021-2026)

Table 10. Global Metal Ion Separation Extractant Sale Price by Type (2021-2026) & (US\$/Ton)

Table 11. Major Players of Neat Active Extractants

Table 12. Major Players of Formulated Extractant Blends

Table 13. Global Metal Ion Separation Extractant Sales by Form (2021-2026) & (Kilotons)

Table 14. Global Metal Ion Separation Extractant Sales Market Share by Form (2021-2026)

Table 15. Global Metal Ion Separation Extractant Revenue by Form (2021-2026) & (\$ million)

Table 16. Global Metal Ion Separation Extractant Revenue Market Share by Form (2021-2026)

Table 17. Global Metal Ion Separation Extractant Sale Price by Form (2021-2026) & (US\$/Ton)

Table 18. Major Players of Cation Exchange

Table 19. Major Players of Anion Exchange

Table 20. Global Metal Ion Separation Extractant Sales by Extraction Mechanism (2021-2026) & (Kilotons)

Table 21. Global Metal Ion Separation Extractant Sales Market Share by Extraction Mechanism (2021-2026)

Table 22. Global Metal Ion Separation Extractant Revenue by Extraction Mechanism

(2021-2026) & (\$ million)

Table 23. Global Metal Ion Separation Extractant Revenue Market Share by Extraction Mechanism (2021-2026)

Table 24. Global Metal Ion Separation Extractant Sale Price by Extraction Mechanism (2021-2026) & (US\$/Ton)

Table 25. Global Metal Ion Separation Extractant Sale by Application (2021-2026) & (Kilotons)

Table 26. Global Metal Ion Separation Extractant Sale Market Share by Application (2021-2026)

Table 27. Global Metal Ion Separation Extractant Revenue by Application (2021-2026) & (\$ million)

Table 28. Global Metal Ion Separation Extractant Revenue Market Share by Application (2021-2026)

Table 29. Global Metal Ion Separation Extractant Sale Price by Application (2021-2026) & (US\$/Ton)

Table 30. Global Metal Ion Separation Extractant Sales by Company (2021-2026) & (Kilotons)

Table 31. Global Metal Ion Separation Extractant Sales Market Share by Company (2021-2026)

Table 32. Global Metal Ion Separation Extractant Revenue by Company (2021-2026) & (\$ millions)

Table 33. Global Metal Ion Separation Extractant Revenue Market Share by Company (2021-2026)

Table 34. Global Metal Ion Separation Extractant Sale Price by Company (2021-2026) & (US\$/Ton)

Table 35. Key Manufacturers Metal Ion Separation Extractant Producing Area Distribution and Sales Area

Table 36. Players Metal Ion Separation Extractant Products Offered

Table 37. Metal Ion Separation Extractant Concentration Ratio (CR3, CR5 and CR10) & (2024-2026)

Table 38. New Products and Potential Entrants

Table 39. Market M&A Activity & Strategy

Table 40. Global Metal Ion Separation Extractant Sales by Geographic Region (2021-2026) & (Kilotons)

Table 41. Global Metal Ion Separation Extractant Sales Market Share Geographic Region (2021-2026)

Table 42. Global Metal Ion Separation Extractant Revenue by Geographic Region (2021-2026) & (\$ millions)

Table 43. Global Metal Ion Separation Extractant Revenue Market Share by Geographic

Region (2021-2026)

Table 44. Global Metal Ion Separation Extractant Sales by Country/Region (2021-2026) & (Kilotons)

Table 45. Global Metal Ion Separation Extractant Sales Market Share by Country/Region (2021-2026)

Table 46. Global Metal Ion Separation Extractant Revenue by Country/Region (2021-2026) & (\$ millions)

Table 47. Global Metal Ion Separation Extractant Revenue Market Share by Country/Region (2021-2026)

Table 48. Americas Metal Ion Separation Extractant Sales by Country (2021-2026) & (Kilotons)

Table 49. Americas Metal Ion Separation Extractant Sales Market Share by Country (2021-2026)

Table 50. Americas Metal Ion Separation Extractant Revenue by Country (2021-2026) & (\$ millions)

Table 51. Americas Metal Ion Separation Extractant Sales by Type (2021-2026) & (Kilotons)

Table 52. Americas Metal Ion Separation Extractant Sales by Application (2021-2026) & (Kilotons)

Table 53. APAC Metal Ion Separation Extractant Sales by Region (2021-2026) & (Kilotons)

Table 54. APAC Metal Ion Separation Extractant Sales Market Share by Region (2021-2026)

Table 55. APAC Metal Ion Separation Extractant Revenue by Region (2021-2026) & (\$ millions)

Table 56. APAC Metal Ion Separation Extractant Sales by Type (2021-2026) & (Kilotons)

Table 57. APAC Metal Ion Separation Extractant Sales by Application (2021-2026) & (Kilotons)

Table 58. Europe Metal Ion Separation Extractant Sales by Country (2021-2026) & (Kilotons)

Table 59. Europe Metal Ion Separation Extractant Revenue by Country (2021-2026) & (\$ millions)

Table 60. Europe Metal Ion Separation Extractant Sales by Type (2021-2026) & (Kilotons)

Table 61. Europe Metal Ion Separation Extractant Sales by Application (2021-2026) & (Kilotons)

Table 62. Middle East & Africa Metal Ion Separation Extractant Sales by Country (2021-2026) & (Kilotons)

Table 63. Middle East & Africa Metal Ion Separation Extractant Revenue Market Share by Country (2021-2026)
Table 64. Middle East & Africa Metal Ion Separation Extractant Sales by Type (2021-2026) & (Kilotons)
Table 65. Middle East & Africa Metal Ion Separation Extractant Sales by Application (2021-2026) & (Kilotons)
Table 66. Key Market Drivers & Growth Opportunities of Metal Ion Separation Extractant
Table 67. Key Market Challenges & Risks of Metal Ion Separation Extractant
Table 68. Key Industry Trends of Metal Ion Separation Extractant
Table 69. Metal Ion Separation Extractant Raw Material
Table 70. Key Suppliers of Raw Materials
Table 71. Metal Ion Separation Extractant Distributors List
Table 72. Metal Ion Separation Extractant Customer List
Table 73. Global Metal Ion Separation Extractant Sales Forecast by Region (2027-2032) & (Kilotons)
Table 74. Global Metal Ion Separation Extractant Revenue Forecast by Region (2027-2032) & (\$ millions)
Table 75. Americas Metal Ion Separation Extractant Sales Forecast by Country (2027-2032) & (Kilotons)
Table 76. Americas Metal Ion Separation Extractant Annual Revenue Forecast by Country (2027-2032) & (\$ millions)
Table 77. APAC Metal Ion Separation Extractant Sales Forecast by Region (2027-2032) & (Kilotons)
Table 78. APAC Metal Ion Separation Extractant Annual Revenue Forecast by Region (2027-2032) & (\$ millions)
Table 79. Europe Metal Ion Separation Extractant Sales Forecast by Country (2027-2032) & (Kilotons)
Table 80. Europe Metal Ion Separation Extractant Revenue Forecast by Country (2027-2032) & (\$ millions)
Table 81. Middle East & Africa Metal Ion Separation Extractant Sales Forecast by Country (2027-2032) & (Kilotons)
Table 82. Middle East & Africa Metal Ion Separation Extractant Revenue Forecast by Country (2027-2032) & (\$ millions)
Table 83. Global Metal Ion Separation Extractant Sales Forecast by Type (2027-2032) & (Kilotons)
Table 84. Global Metal Ion Separation Extractant Revenue Forecast by Type (2027-2032) & (\$ millions)
Table 85. Global Metal Ion Separation Extractant Sales Forecast by Application

(2027-2032) & (Kilotons)

Table 86. Global Metal Ion Separation Extractant Revenue Forecast by Application
(2027-2032) & (\$ millions)

Table 87. ZIJIN Basic Information, Metal Ion Separation Extractant Manufacturing Base,
Sales Area and Its Competitors

Table 88. ZIJIN Metal Ion Separation Extractant Product Portfolios and Specifications

Table 89. ZIJIN Metal Ion Separation Extractant Sales (Kilotons), Revenue (\$ Million),
Price (US\$/Ton) and Gross Margin (2021-2026)

Table 90. ZIJIN Main Business

Table 91. ZIJIN Latest Developments

Table 92. Syensqo Basic Information, Metal Ion Separation Extractant Manufacturing
Base, Sales Area and Its Competitors

Table 93. Syensqo Metal Ion Separation Extractant Product Portfolios and
Specifications

Table 94. Syensqo Metal Ion Separation Extractant Sales (Kilotons), Revenue (\$
Million), Price (US\$/Ton) and Gross Margin (2021-2026)

Table 95. Syensqo Main Business

Table 96. Syensqo Latest Developments

Table 97. Deyuan Chemical Basic Information, Metal Ion Separation Extractant
Manufacturing Base, Sales Area and Its Competitors

Table 98. Deyuan Chemical Metal Ion Separation Extractant Product Portfolios and
Specifications

Table 99. Deyuan Chemical Metal Ion Separation Extractant Sales (Kilotons), Revenue
(\$ Million), Price (US\$/Ton) and Gross Margin (2021-2026)

Table 100. Deyuan Chemical Main Business

Table 101. Deyuan Chemical Latest Developments

Table 102. BASF Basic Information, Metal Ion Separation Extractant Manufacturing
Base, Sales Area and Its Competitors

Table 103. BASF Metal Ion Separation Extractant Product Portfolios and Specifications

Table 104. BASF Metal Ion Separation Extractant Sales (Kilotons), Revenue (\$ Million),
Price (US\$/Ton) and Gross Margin (2021-2026)

Table 105. BASF Main Business

Table 106. BASF Latest Developments

Table 107. KopperChem Basic Information, Metal Ion Separation Extractant
Manufacturing Base, Sales Area and Its Competitors

Table 108. KopperChem Metal Ion Separation Extractant Product Portfolios and
Specifications

Table 109. KopperChem Metal Ion Separation Extractant Sales (Kilotons), Revenue (\$
Million), Price (US\$/Ton) and Gross Margin (2021-2026)

Table 110. KopperChem Main Business

Table 111. KopperChem Latest Developments

Table 112. Italmatch Basic Information, Metal Ion Separation Extractant Manufacturing Base, Sales Area and Its Competitors

Table 113. Italmatch Metal Ion Separation Extractant Product Portfolios and Specifications

Table 114. Italmatch Metal Ion Separation Extractant Sales (Kilotons), Revenue (\$ Million), Price (US\$/Ton) and Gross Margin (2021-2026)

Table 115. Italmatch Main Business

Table 116. Italmatch Latest Developments

Table 117. DAIHACHI Chemical Basic Information, Metal Ion Separation Extractant Manufacturing Base, Sales Area and Its Competitors

Table 118. DAIHACHI Chemical Metal Ion Separation Extractant Product Portfolios and Specifications

Table 119. DAIHACHI Chemical Metal Ion Separation Extractant Sales (Kilotons), Revenue (\$ Million), Price (US\$/Ton) and Gross Margin (2021-2026)

Table 120. DAIHACHI Chemical Main Business

Table 121. DAIHACHI Chemical Latest Developments

Table 122. Sanmenxia Zhongda Chemical Basic Information, Metal Ion Separation Extractant Manufacturing Base, Sales Area and Its Competitors

Table 123. Sanmenxia Zhongda Chemical Metal Ion Separation Extractant Product Portfolios and Specifications

Table 124. Sanmenxia Zhongda Chemical Metal Ion Separation Extractant Sales (Kilotons), Revenue (\$ Million), Price (US\$/Ton) and Gross Margin (2021-2026)

Table 125. Sanmenxia Zhongda Chemical Main Business

Table 126. Sanmenxia Zhongda Chemical Latest Developments

Table 127. Sannuo Chemical Basic Information, Metal Ion Separation Extractant Manufacturing Base, Sales Area and Its Competitors

Table 128. Sannuo Chemical Metal Ion Separation Extractant Product Portfolios and Specifications

Table 129. Sannuo Chemical Metal Ion Separation Extractant Sales (Kilotons), Revenue (\$ Million), Price (US\$/Ton) and Gross Margin (2021-2026)

Table 130. Sannuo Chemical Main Business

Table 131. Sannuo Chemical Latest Developments

Table 132. Jiangxi Jiexin Basic Information, Metal Ion Separation Extractant Manufacturing Base, Sales Area and Its Competitors

Table 133. Jiangxi Jiexin Metal Ion Separation Extractant Product Portfolios and Specifications

Table 134. Jiangxi Jiexin Metal Ion Separation Extractant Sales (Kilotons), Revenue (\$

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

Table 135. Jiangxi Jiexin Main Business

Table 136. Jiangxi Jiexin Latest Developments

List Of Figures

LIST OF FIGURES

Figure 1. Picture of Metal Ion Separation Extractant

Figure 2. Metal Ion Separation Extractant Report Years Considered

Figure 3. Research Objectives

Figure 4. Research Methodology

Figure 5. Research Process and Data Source

Figure 6. Global Metal Ion Separation Extractant Sales Growth Rate 2021-2032
(Kilotons)

Figure 7. Global Metal Ion Separation Extractant Revenue Growth Rate 2021-2032 (\$
millions)

Figure 8. Metal Ion Separation Extractant Sales by Geographic Region (2021, 2025 &
2032) & (\$ millions)

Figure 9. Metal Ion Separation Extractant Sales Market Share by Country/Region
(2025)

Figure 10. Metal Ion Separation Extractant Sales Market Share by Country/Region
(2021, 2025 & 2032)

Figure 11. Product Picture of Copper Extractant

Figure 12. Product Picture of New Energy Metal Extractant (Cobalt, Nickel, etc.?)

Figure 13. Product Picture of Others

Figure 14. Global Metal Ion Separation Extractant Sales Market Share by Type in 2026

Figure 15. Global Metal Ion Separation Extractant Revenue Market Share by Type
(2021-2026)

Figure 16. Product Picture of Neat Active Extractants

Figure 17. Product Picture of Formulated Extractant Blends

Figure 18. Global Metal Ion Separation Extractant Sales Market Share by Form in 2026

Figure 19. Global Metal Ion Separation Extractant Revenue Market Share by Form
(2021-2026)

Figure 20. Product Picture of Cation Exchange

Figure 21. Product Picture of Anion Exchange

Figure 22. Global Metal Ion Separation Extractant Sales Market Share by Extraction
Mechanism in 2026

Figure 23. Global Metal Ion Separation Extractant Revenue Market Share by Extraction
Mechanism (2021-2026)

Figure 24. Metal Ion Separation Extractant Consumed in Mineral Processing

Figure 25. Global Metal Ion Separation Extractant Market: Mineral Processing
(2021-2026) & (Kilotons)

- Figure 26. Metal Ion Separation Extractant Consumed in Metallurgy
- Figure 27. Global Metal Ion Separation Extractant Market: Metallurgy (2021-2026) & (Kilotons)
- Figure 28. Metal Ion Separation Extractant Consumed in Others
- Figure 29. Global Metal Ion Separation Extractant Market: Others (2021-2026) & (Kilotons)
- Figure 30. Global Metal Ion Separation Extractant Sale Market Share by Application (2025)
- Figure 31. Global Metal Ion Separation Extractant Revenue Market Share by Application in 2025
- Figure 32. Metal Ion Separation Extractant Sales by Company in 2025 (Kilotons)
- Figure 33. Global Metal Ion Separation Extractant Sales Market Share by Company in 2025
- Figure 34. Metal Ion Separation Extractant Revenue by Company in 2025 (\$ millions)
- Figure 35. Global Metal Ion Separation Extractant Revenue Market Share by Company in 2025
- Figure 36. Global Metal Ion Separation Extractant Sales Market Share by Geographic Region (2021-2026)
- Figure 37. Global Metal Ion Separation Extractant Revenue Market Share by Geographic Region in 2025
- Figure 38. Americas Metal Ion Separation Extractant Sales 2021-2026 (Kilotons)
- Figure 39. Americas Metal Ion Separation Extractant Revenue 2021-2026 (\$ millions)
- Figure 40. APAC Metal Ion Separation Extractant Sales 2021-2026 (Kilotons)
- Figure 41. APAC Metal Ion Separation Extractant Revenue 2021-2026 (\$ millions)
- Figure 42. Europe Metal Ion Separation Extractant Sales 2021-2026 (Kilotons)
- Figure 43. Europe Metal Ion Separation Extractant Revenue 2021-2026 (\$ millions)
- Figure 44. Middle East & Africa Metal Ion Separation Extractant Sales 2021-2026 (Kilotons)
- Figure 45. Middle East & Africa Metal Ion Separation Extractant Revenue 2021-2026 (\$ millions)
- Figure 46. Americas Metal Ion Separation Extractant Sales Market Share by Country in 2025
- Figure 47. Americas Metal Ion Separation Extractant Revenue Market Share by Country (2021-2026)
- Figure 48. Americas Metal Ion Separation Extractant Sales Market Share by Type (2021-2026)
- Figure 49. Americas Metal Ion Separation Extractant Sales Market Share by Application (2021-2026)
- Figure 50. United States Metal Ion Separation Extractant Revenue Growth 2021-2026

(\$ millions)

Figure 51. Canada Metal Ion Separation Extractant Revenue Growth 2021-2026 (\$ millions)

Figure 52. Mexico Metal Ion Separation Extractant Revenue Growth 2021-2026 (\$ millions)

Figure 53. Brazil Metal Ion Separation Extractant Revenue Growth 2021-2026 (\$ millions)

Figure 54. APAC Metal Ion Separation Extractant Sales Market Share by Region in 2025

Figure 55. APAC Metal Ion Separation Extractant Revenue Market Share by Region (2021-2026)

Figure 56. APAC Metal Ion Separation Extractant Sales Market Share by Type (2021-2026)

Figure 57. APAC Metal Ion Separation Extractant Sales Market Share by Application (2021-2026)

Figure 58. China Metal Ion Separation Extractant Revenue Growth 2021-2026 (\$ millions)

Figure 59. Japan Metal Ion Separation Extractant Revenue Growth 2021-2026 (\$ millions)

Figure 60. South Korea Metal Ion Separation Extractant Revenue Growth 2021-2026 (\$ millions)

Figure 61. Southeast Asia Metal Ion Separation Extractant Revenue Growth 2021-2026 (\$ millions)

Figure 62. India Metal Ion Separation Extractant Revenue Growth 2021-2026 (\$ millions)

Figure 63. Australia Metal Ion Separation Extractant Revenue Growth 2021-2026 (\$ millions)

Figure 64. China Taiwan Metal Ion Separation Extractant Revenue Growth 2021-2026 (\$ millions)

Figure 65. Europe Metal Ion Separation Extractant Sales Market Share by Country in 2025

Figure 66. Europe Metal Ion Separation Extractant Revenue Market Share by Country (2021-2026)

Figure 67. Europe Metal Ion Separation Extractant Sales Market Share by Type (2021-2026)

Figure 68. Europe Metal Ion Separation Extractant Sales Market Share by Application (2021-2026)

Figure 69. Germany Metal Ion Separation Extractant Revenue Growth 2021-2026 (\$ millions)

Figure 70. France Metal Ion Separation Extractant Revenue Growth 2021-2026 (\$ millions)

Figure 71. UK Metal Ion Separation Extractant Revenue Growth 2021-2026 (\$ millions)

Figure 72. Italy Metal Ion Separation Extractant Revenue Growth 2021-2026 (\$ millions)

Figure 73. Russia Metal Ion Separation Extractant Revenue Growth 2021-2026 (\$ millions)

Figure 74. Middle East & Africa Metal Ion Separation Extractant Sales Market Share by Country (2021-2026)

Figure 75. Middle East & Africa Metal Ion Separation Extractant Sales Market Share by Type (2021-2026)

Figure 76. Middle East & Africa Metal Ion Separation Extractant Sales Market Share by Application (2021-2026)

Figure 77. Egypt Metal Ion Separation Extractant Revenue Growth 2021-2026 (\$ millions)

Figure 78. South Africa Metal Ion Separation Extractant Revenue Growth 2021-2026 (\$ millions)

Figure 79. Israel Metal Ion Separation Extractant Revenue Growth 2021-2026 (\$ millions)

Figure 80. Turkey Metal Ion Separation Extractant Revenue Growth 2021-2026 (\$ millions)

Figure 81. GCC Countries Metal Ion Separation Extractant Revenue Growth 2021-2026 (\$ millions)

Figure 82. Manufacturing Cost Structure Analysis of Metal Ion Separation Extractant in 2026

Figure 83. Manufacturing Process Analysis of Metal Ion Separation Extractant

Figure 84. Industry Chain Structure of Metal Ion Separation Extractant

Figure 85. Channels of Distribution

Figure 86. Global Metal Ion Separation Extractant Sales Market Forecast by Region (2027-2032)

Figure 87. Global Metal Ion Separation Extractant Revenue Market Share Forecast by Region (2027-2032)

Figure 88. Global Metal Ion Separation Extractant Sales Market Share Forecast by Type (2027-2032)

Figure 89. Global Metal Ion Separation Extractant Revenue Market Share Forecast by Type (2027-2032)

Figure 90. Global Metal Ion Separation Extractant Sales Market Share Forecast by Application (2027-2032)

Figure 91. Global Metal Ion Separation Extractant Revenue Market Share Forecast by Application (2027-2032)

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