

Global Copper Removal Reagent for Battery Black Mass Leachate 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 Copper Removal Reagent for Battery Black Mass Leachate market size was valued at US\$ 34.98 million in 2025 and is forecast to a readjusted size of US\$ 113 million by 2032 with a CAGR of 17.4% during review period.

Copper removal reagents for battery black mass leachate are physical chemical products and functional materials used in the hydrometallurgical recycling of lithium ion battery black mass to remove copper impurities from acidic leachate. The product mainly covers copper solvent extraction reagents, copper chelating resins, ion exchange resins, selective precipitation reagents and formulated impurity removal chemicals. These products are applied after black mass leaching and before downstream nickel, cobalt, manganese and lithium separation, purification, precipitation or crystallization. Their core function is to selectively capture, extract, precipitate or recover copper ions while minimizing the loss of valuable battery metals. Main technical routes include oxime based solvent extraction, chelating resin adsorption, ion exchange, sulfide precipitation, reductive precipitation and combined impurity removal processes. Key performance indicators include copper selectivity, copper removal efficiency, co removal of nickel, cobalt and manganese, acid resistance, phase separation speed, resin exchange capacity, regeneration performance, chemical consumption per ton of black mass and compatibility with high salt acidic leachate. The product is mainly used in ternary battery black mass, mixed black mass, production scrap black mass and copper rich intermediate leachate purification. In 2025, the global average gross margin of copper removal reagents for battery black mass leachate was 28%, the industry average price was 5500 USD per ton.

Copper removal reagents for battery black mass leachate are positioned as process purification materials within the hydrometallurgical battery recycling value chain. Upstream inputs include specialty chemical intermediates, extractant raw materials, resin monomers, functional polymers, sulfide chemicals and formulation additives. Midstream suppliers convert these inputs into copper extraction reagents, chelating resins, ion exchange resins and formulated impurity removal products. Downstream demand mainly comes from black mass hydrometallurgical recyclers, nickel cobalt manganese salt producers, lithium salt recovery plants and recycled cathode material manufacturers. As feedstock shifts from relatively controlled production scrap to mixed end of life batteries and heterogeneous black mass, copper impurity control becomes more important. The product is therefore evolving from a general hydrometallurgical auxiliary chemical into a more application specific purification material focused on selectivity, low valuable metal loss and compatibility with continuous recycling lines.

The competitive landscape is characterized by a small market size, high technical specificity and multiple process routes. Copper solvent extraction reagents are more relevant for leachates with higher copper content and for processes that intend to recover copper as a value stream. Chelating resins and ion exchange resins are better suited for deep purification, polishing and low residual copper control. Precipitation based reagents are more common in cost sensitive or front end impurity removal steps. Global supply is shared by specialty chemical companies, metal extractant producers, functional resin manufacturers and regional formulation suppliers. Because most companies do not separately disclose revenue from black mass copper removal applications, competition is better understood through product route, manufacturing capability, customer qualification and process fit rather than reported segment revenue alone.

Policy and industry dynamics are gradually strengthening the role of copper removal reagents in compliant black mass refining. Higher recycling efficiency requirements, stricter control of recycled black mass flows, new hydrometallurgical recycling projects and regional battery material supply chain localization all support higher demand for stable leachate purification chemicals. Future growth will mainly come from rising ternary black mass processing volumes, more complex impurity profiles in mixed feedstock, higher purity requirements for battery grade salts and the shift toward larger continuous wet process lines. The industry will still face substitution pressure from electrochemical copper removal, internal reagent preparation and process redesign. However, as black mass refining scales up and quality requirements become stricter, specialized copper removal reagents and copper selective purification materials are

expected to become more important in the recycling process.

This report is a detailed and comprehensive analysis for global Copper Removal Reagent for Battery Black Mass Leachate 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 Copper Removal Reagent for Battery Black Mass Leachate market size and forecasts, in consumption value (\$ Million), sales quantity (Tons), and average selling prices (US\$/Ton), 2021-2032

Global Copper Removal Reagent for Battery Black Mass Leachate market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (Tons), and average selling prices (US\$/Ton), 2021-2032

Global Copper Removal Reagent for Battery Black Mass Leachate 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 Copper Removal Reagent for Battery Black Mass Leachate 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 Copper Removal Reagent for Battery Black Mass Leachate

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 Copper Removal Reagent for Battery Black Mass Leachate 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 BASF SE, Syensqo SA, Chongqing Kopper Chemical Industry Corp., Ltd., Sunresin New Materials Co., Ltd., LANXESS AG, DuPont de Nemours, Inc., Ecolab Inc., Luoyang Zhongda Chemical Co., Ltd., Luoyang Aoda Chemical Co., Ltd., Sanmenxia Zhongda Chemical Co., Ltd., etc.

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

Market Segmentation

Copper Removal Reagent for Battery Black Mass Leachate 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

Copper Solvent Extraction Reagents

Chelating and Ion Exchange Resins

Selective Precipitation Reagents

Reductive and Cementation Reagents

Formulated Copper Removal Reagents

Others

Market segment by Feedstock Type

Ternary Battery Black Mass

Mixed Battery Black Mass

Production Scrap Black Mass

End of Life Battery Black Mass

Copper Rich Intermediate Leachate

Others

Market segment by Form

Liquid Reagents

Solid Powder Reagents

Resin Beads and Granules

Others

Market segment by Application

Nickel Cobalt Manganese Salt Production

Lithium Salt Recovery

Recycled Cathode Material Production

Copper by-product Recovery

Wastewater and Process Water Treatment

Others

Major players covered

BASF SE

Syensqo SA

Chongqing Kopper Chemical Industry Corp., Ltd.

Sunresin New Materials Co., Ltd.

LANXESS AG

DuPont de Nemours, Inc.

Ecolab Inc.

Luoyang Zhongda Chemical Co., Ltd.

Luoyang Aoda Chemical Co., Ltd.

Sanmenxia Zhongda Chemical Co., Ltd.

Market segment by region, regional analysis covers

North America (United States, Canada, and Mexico)

Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)

Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)

South America (Brazil, Argentina, Colombia, and Rest of South America)

Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

The content of the study subjects, includes a total of 15 chapters:

Chapter 1, to describe Copper Removal Reagent for Battery Black Mass Leachate product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Copper Removal Reagent for Battery Black Mass Leachate, with price, sales quantity, revenue, and global market share of Copper Removal Reagent for Battery Black Mass Leachate from 2021 to 2026.

Chapter 3, the Copper Removal Reagent for Battery Black Mass Leachate competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Copper Removal Reagent for Battery Black Mass Leachate breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2021 to 2032.

Chapter 5 and 6, to segment the sales by Type and by Application, with sales market share and growth rate by Type, by Application, from 2021 to 2032.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value, and market share for key countries in the world, from 2021 to 2026. and Copper Removal Reagent for Battery Black Mass Leachate market forecast, by regions, by Type, and by Application, with sales and revenue, from 2027 to 2032.

Chapter 12, market dynamics, drivers, restraints, trends, and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of Copper Removal Reagent for Battery Black Mass Leachate.

Chapter 14 and 15, to describe Copper Removal Reagent for Battery Black Mass Leachate sales channel, distributors, customers, research findings and conclusion.

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