

Global Impurity Removal and Purification Reagents for Lithium-ion 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 Impurity Removal and Purification Reagents for Lithium-ion Battery Black Mass Leachate market size was valued at US\$ 80.26 million in 2025 and is forecast to a readjusted size of US\$ 213 million by 2032 with a CAGR of 13.7% during review period.

Impurity removal and purification reagents for lithium ion battery black mass leachate are physical chemical materials used in the hydrometallurgical recycling of spent lithium ion battery black mass to remove impurities, purify metal bearing solutions, and control metal ion composition before downstream recovery. The product focuses on purification steps after black mass leaching and before solvent extraction, lithium precipitation, precursor regeneration, iron phosphate recovery, or battery grade salt production. Main product forms include liquid formulated reagents, powder precipitation reagents, chelating agents, fluorine removal reagents, copper removal reagents, iron and aluminum removal reagents, ion exchange resins, chelating resins, and adsorption based purification materials. The core technical routes include precipitation purification, complexation precipitation, ion exchange, selective adsorption, pre extraction purification, and pH controlled impurity removal. Key specifications include target impurity removal efficiency, lithium nickel cobalt manganese loss rate, ion exchange capacity, selectivity coefficient, acid resistance, residual impurity concentration, filtration behavior, regeneration performance, and batch to batch stability. The product is mainly used in lithium iron phosphate black mass, nickel cobalt manganese black mass, nickel cobalt aluminum black mass, and mixed battery black mass recycling processes, where aluminum, iron, copper, fluorine, calcium, magnesium, heavy metals, and other

interfering ions must be controlled to meet downstream material purity requirements. In 2025, the global average gross margin of impurity removal and purification reagents for lithium ion battery black mass leachate was 32.00%. In 2025, the global industry average price was 3500 USD per ton.

Impurity removal and purification reagents for lithium ion battery black mass leachate represent a specialized chemical materials segment created by the shift from low value battery recycling toward battery grade material regeneration. The upstream supply chain consists of resin monomers, functionalized polymer intermediates, organophosphorus extraction intermediates, inorganic salts, chelating agents, fluorine removal materials, and other fine chemical additives. The midstream segment covers the production of ion exchange resins, chelating resins, adsorption materials, impurity precipitation reagents, copper removal reagents, fluorine and aluminum removal reagents, and formulated purification packages. The downstream demand base is formed by lithium iron phosphate black mass recyclers, nickel cobalt manganese black mass refiners, mixed black mass hydrometallurgical plants, lithium salt producers, and precursor regeneration companies. The product is not a single standardized commodity, but a group of process critical purification materials used to improve downstream purity, reduce valuable metal losses, and stabilize hydrometallurgical operations.

The competitive landscape is still fragmented. High end resin and extraction material suppliers compete through selectivity, acid resistance, regeneration performance, impurity capture efficiency, and compatibility with lithium nickel cobalt manganese recovery systems. Regional reagent suppliers compete through cost, customization, rapid formulation, and the ability to solve specific impurity problems such as fluorine, aluminum, copper, iron, calcium, magnesium, and heavy metals in different black mass streams. The market remains less transparent than established solvent extraction chemicals because many recycling plants use internally developed recipes, engineering package chemicals, or customer specific purification systems. This means that the actual supply base is broader than the list of companies with public product pages, while the number of clearly verifiable independent manufacturers remains limited.

Policy and supply chain changes are making this segment more relevant. The European battery regulatory framework sets staged recovery targets for key metals from waste batteries, including lithium recovery targets by 2027 and 2031, which supports higher purity recycling processes and stronger demand for purification materials. China is also moving toward more formal black mass import and quality control rules, which may increase the volume of tradable black mass entering hydrometallurgical refining. These developments support medium term growth, especially as lithium iron phosphate battery

retirement increases and regional recycling capacity expands. The main risks are boundary dilution from commodity acids and alkalis, internal reagent formulations used by large recyclers, direct recycling routes that reduce hydrometallurgical steps, and price pressure from local formulators.

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

Global Impurity Removal and Purification Reagents for Lithium-ion 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 Impurity Removal and Purification Reagents for Lithium-ion 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 Impurity Removal and Purification Reagents for Lithium-ion 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 Impurity Removal and Purification Reagents for Lithium-ion 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 Impurity Removal and Purification Reagents for Lithium-ion 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 LANXESS AG, Purolite, Sunresin New Materials Co., Ltd., Syensqo, Kopper Chemical Industry Corp., Ltd., BASF SE, DuPont de Nemours, Inc., Mitsubishi Chemical Corporation, Solvay S.A., etc.

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

Market Segmentation

Impurity Removal and Purification Reagents for Lithium-ion 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 Removal Reagents

Aluminum Removal Reagents

Fluorine Removal Reagents

Heavy Metal Removal Reagents

Comprehensive Impurity Removal Reagents

Others

Market segment by Technology Route

Chemical Precipitation

Ion Exchange

Chelation Precipitation

Adsorption Separation

Solvent Extraction Pre-treatment

Complexation-pH Synergistic Control

Others

Market segment by Black Mass Source

LFP Black Mass Purification Reagents

NCA Black Mass Purification Reagents

LCO Black Mass Purification Reagents

Others

Market segment by Application

Battery Grade Lithium Salt Production

Nickel Cobalt Manganese Salt Recovery

Precursor Regeneration

Iron Phosphate Regeneration

Solvent Extraction Feed Purification

Wastewater and Mother Liquor Purification

Others

Major players covered

LANXESS AG

Purolite

Sunresin New Materials Co., Ltd.

Syensqo

Kopper Chemical Industry Corp., Ltd.

BASF SE

DuPont de Nemours, Inc.

Mitsubishi Chemical Corporation

Solvay S.A.

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 Impurity Removal and Purification Reagents for Lithium-ion Battery Black Mass Leachate product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Impurity Removal and Purification Reagents for Lithium-ion Battery Black Mass Leachate, with price, sales quantity, revenue, and global market share of Impurity Removal and Purification Reagents for Lithium-ion Battery Black Mass Leachate from 2021 to 2026.

Chapter 3, the Impurity Removal and Purification Reagents for Lithium-ion 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 Impurity Removal and Purification Reagents for Lithium-ion 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 Impurity Removal and Purification Reagents for Lithium-ion 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 Impurity Removal and Purification Reagents for Lithium-ion Battery Black Mass Leachate.

Chapter 14 and 15, to describe Impurity Removal and Purification Reagents for Lithium-ion Battery Black Mass Leachate sales channel, distributors, customers, research findings and conclusion.

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