

Global Hydrometallurgy Recycled Battery Black Mass 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 Hydrometallurgy Recycled Battery Black Mass market size was valued at US\$ 1444 million in 2025 and is forecast to a readjusted size of US\$ 3341 million by 2032 with a CAGR of 12.7% during review period.

Hydrometallurgy Recycled Battery Black Mass refers to the mixed cathode and anode active-material powder obtained from spent lithium batteries and production scrap after discharge, dismantling, crushing, thermal treatment, and multi-stage physical separation, with casings, separators, copper and aluminum current collectors removed. Compared with general lithium battery recycled black powder, this product definition places greater emphasis on feedstock suitability for hydrometallurgical recovery, controllable metal composition, impurity reduction, lithium, nickel, cobalt, manganese, iron phosphate active-material enrichment, and efficient downstream leaching and purification. In 2025, the industry's capacity utilization rate reached 73%, and the average gross margin was around 50%. In 2025, production was about 610,000 tons and the average price was USD 2,300 per ton. The upstream segment mainly consists of specialized battery recycling equipment manufacturers, with representative suppliers including STEINERT, Batrium, Zhejiang Tianchang Intelligent Manufacturing Co., Ltd., and Brunp Recycling Equipment Division. The midstream segment focuses on black mass preparation, composition adjustment, and deep impurity removal, covering core processes such as fine crushing, pyrolysis, screening, magnetic separation, metal-element enrichment, and hydrometallurgical pre-treatment control. Downstream, the product is mainly used in regenerated cathode material manufacturing for power batteries and energy storage batteries, with typical customers including CATL, BYD, LG Energy Solution, and Tesla.

Hydrometallurgy Recycled Battery Black Mass will be priced around its ability to enter chemical refining rather than simple physical recycling. For NCM feedstock, the value comes from recovering nickel, cobalt, manganese, and lithium into battery-grade salts and precursor materials; for LFP feedstock, lithium yield and processing cost become the core variables. As power batteries and energy storage batteries enter larger retirement cycles, downstream users will pay more attention to metal content, impurity levels, moisture control, and stable batch quality. The competitive threshold will move toward leaching efficiency, purification economics, environmental compliance, and long-term supply contracts with cathode-material producers.

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

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

Global Hydrometallurgy Recycled Battery Black Mass 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 Hydrometallurgy Recycled Battery Black Mass 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 Hydrometallurgy Recycled Battery Black Mass

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 Hydrometallurgy Recycled Battery Black Mass 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 Brunp Recycling (China), GEM (China), Umicore (Belgium), Redwood Materials (USA), Huayou Cobalt (China), SungEel HiTech (South Korea), POSCO HY Clean Metal (South Korea), Hydrovolt (Norway), Ascend Elements (USA), Cirba Solutions (USA), etc.

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

Market Segmentation

Hydrometallurgy Recycled Battery Black Mass 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

Ternary Lithium Cathode

LiFePO4 Cathode

Others

Market segment by Technology

Acid-Leaching

Bioleaching

Market segment by Content

2.0%?Li?3.50%

Li?3.5%

Others

Market segment by Application

Power Battery

Consumer Electronics Battery

Energy Storage Battery

Others

Major players covered

Brunp Recycling (China)

GEM (China)

Umicore (Belgium)

Redwood Materials (USA)

Huayou Cobalt (China)

SungEel HiTech (South Korea)

POSCO HY Clean Metal (South Korea)

Hydrovolt (Norway)

Ascend Elements (USA)

Cirba Solutions (USA)

Ecobat (USA)

Fortum Battery Solutions (Finland)

Duesenfeld (Germany)

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 Hydrometallurgy Recycled Battery Black Mass product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Hydrometallurgy Recycled Battery Black Mass, with price, sales quantity, revenue, and global market share of Hydrometallurgy Recycled Battery Black Mass from 2021 to 2026.

Chapter 3, the Hydrometallurgy Recycled Battery Black Mass competitive situation,

sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Hydrometallurgy Recycled Battery Black Mass 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 Hydrometallurgy Recycled Battery Black Mass 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 Hydrometallurgy Recycled Battery Black Mass.

Chapter 14 and 15, to describe Hydrometallurgy Recycled Battery Black Mass sales channel, distributors, customers, research findings and conclusion.

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