

# Global Lithium Extraction Adsorbents Supply, Demand and Key Producers, 2026-2032

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## Abstracts

The global Lithium Extraction Adsorbents market size is expected to reach \$ 9114 million by 2032, rising at a market growth of 8.7% CAGR during the forecast period (2026-2032).

Lithium Extraction Adsorbents are high-performance functional materials used to selectively adsorb lithium ions from lithium-containing liquids (such as brine from salt lakes, geothermal brine, and oil and gas associated brine). Compared to traditional methods such as evaporation ponds and chemical precipitation, adsorbents achieve efficient separation and capture of Li<sup>+</sup> in complex multi-metal environments through physical adsorption or ion exchange mechanisms, releasing high concentrations of lithium ions in subsequent desorption steps, thus achieving efficient recovery of lithium resources. Lithium extraction adsorbents mainly include aluminum-based adsorbents, manganese-based lithium ion sieves, titanium-based materials, and doped composite materials, pursuing high selectivity, high adsorption capacity, and excellent recycling capabilities. This technology is one of the important material foundations in direct lithium extraction (DLE) and has significant application value in industrialized salt lake lithium extraction, low-grade resource development, and green, low-carbon lithium extraction systems.

Salt lake lithium extraction technologies can be divided into high magnesium-to-lithium ratio (Mg/L) and low Mg/L ratio technologies. Low Mg/L salt lake lithium extraction technologies mainly include precipitation methods and salt gradient solar pond methods. High magnesium-to-lithium ratio (Mg/L) salt lake lithium extraction technologies mainly include membrane separation, extraction, adsorption, and adsorption-coupled membrane separation (i.e., 'adsorption + membrane' method). The 'adsorption + membrane' method is suitable for most salt lake brines and is one of the most mainstream and industrialized processes in China's salt lake lithium extraction field, widely used in Qinghai Province. This process can be divided into an adsorption

stage and a membrane stage. The adsorption stage uses adsorbents to selectively adsorb, extract, and elute lithium ions from the brine, achieving lithium ion concentration. The membrane stage further concentrates and purifies the brine through a series of organic membrane gradient couplings, achieving substance separation. Commonly used membranes include ultrafiltration membranes, nanofiltration membranes, and reverse osmosis membranes. The production cost of lithium extraction from Chinese salt lakes has decreased to 20,000-35,000 RMB/ton. In 2025, the global gross profit margin of Lithium Extraction Adsorbents was approximately 45.23%. Jiuwu Hi-Tech has a production line with an annual capacity of 6,000 tons, but in 2023, based on the capacity completed that year, the utilization rate was only 55.38%. Haipu has annual production capacities of 15,000 cubic meters of aluminum-based lithium-ion lake adsorbents and 10,000 cubic meters of titanium-based lithium-ion lake adsorbents. The unit of measurement for lithium adsorbents is sometimes based on weight, but also on the volume of the customer's adsorption equipment. The conversion is mainly based on the density parameters of different adsorbents. In terms of market statistics, lithium-ion adsorbents are both a product and a technical service: they are a key material product used in adsorption-based lithium extraction processes; simultaneously, the development, supply, and process integration of these customized adsorbents constitute technical services. In particular, integrated processes such as 'adsorption + membrane' provide 'tailor-made' solutions for salt lakes with different characteristics, which is the core value of achieving low-cost, green lithium extraction.

**Opportunities and Key Drivers:** With the accelerated advancement of global electrification and clean energy systems, lithium's strategic importance as a core material for lithium-ion batteries continues to rise. Traditional salt lake evaporation for lithium extraction is time-consuming, consumes large amounts of water, and has significant environmental impacts. The rise of Direct Lithium Extraction (DLE) technology provides an important alternative for improving resource utilization and a green lithium extraction path. Lithium extraction adsorbents, as key materials in DLE technology, achieve highly selective capture and recycling of lithium ions under high salinity and complex chemical conditions. This is significant for increasing single-well productivity, shortening the lithium extraction cycle, and reducing water consumption and carbon emissions. Therefore, from an industry chain perspective, the lithium extraction adsorbent market has become an important component of the new energy materials supply chain, providing key technological support for optimizing the global lithium supply system.

**Market Challenges and Risks:** Despite the promising market prospects for lithium extraction adsorbents, challenges remain regarding technological maturity, cost, and large-scale deployment. The preparation of high-performance adsorbent materials often relies on complex synthesis routes and high-cost raw materials, which to some extent

increases the price per ton of the product and puts pressure on gross profit margins. Meanwhile, the differences in chemical composition among various salt lake brines impose stringent requirements on adsorption selectivity and cycle stability, leading to long technology development cycles and high on-site verification costs. Furthermore, differences in patents, technical standards, and environmental compliance between domestic and international markets may also impact cross-regional commercialization. These factors need to be gradually overcome during the industrialization process; otherwise, they may restrict the large-scale application of products and the speed of market expansion.

**Downstream Demand Trends:** In the downstream lithium resource development sector, with the continued expansion of the global electric vehicle, energy storage system, and renewable energy equipment markets, the demand for the lithium salt supply chain remains strong. Especially in Latin America, a region rich in salt lake resources, and in the development of salt lake resources in western China, lithium extraction adsorbents have become a key breakthrough in improving lithium extraction efficiency and environmental friendliness. At the same time, the development of low-grade lithium resources such as oil and gas associated brine and mine tailings also presents new demands for high-efficiency adsorption materials, which will drive continuous innovation in material functionalization, selectivity, and degradation cost reduction. In addition, with the strengthening of global low-carbon policies and green production requirements, the market penetration rate of environmentally friendly adsorbent technologies is expected to increase significantly, becoming a core growth force in the future lithium extraction materials market.

This report studies the global Lithium Extraction Adsorbents demand, key companies, and key regions.

This report is a detailed and comprehensive analysis of the world market for Lithium Extraction Adsorbents, and provides market size (US\$ million) and Year-over-Year (YoY) growth, considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of Lithium Extraction Adsorbents that contribute to its increasing demand across many markets.

### **Highlights and key features of the study**

Global Lithium Extraction Adsorbents total market, 2021-2032, (USD Million)

Global Lithium Extraction Adsorbents total market by region & country, CAGR, 2021-2032, (USD Million)

U.S. VS China: Lithium Extraction Adsorbents total market, key domestic companies, and share, (USD Million)

Global Lithium Extraction Adsorbents revenue by player, revenue and market share 2021-2026, (USD Million)

Global Lithium Extraction Adsorbents total market by Type, CAGR, 2021-2032, (USD

Million)

Global Lithium Extraction Adsorbents total market by Application, CAGR, 2021-2032, (USD Million)

This report profiles major players in the global Lithium Extraction Adsorbents market based on the following parameters - company overview, revenue, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Arcadium Lithium PLC (Rio Tinto), Minerva Lithium, Eramet, Energy Exploration Technologies, E3 Lithium, International Battery Metals, Qinghai Salt Lake Fozhao Lake Lithium Co., Ltd., Sunresin New Materials Co.Ltd, Jiangsu Jiuwu Hi-Tech Co., Ltd., Juneng Yongtuo (Zhuhai) Technology Development Co., Ltd., etc. This report also provides key insights about market drivers, restraints, opportunities, new product launches or approvals.

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the world Lithium Extraction Adsorbents market

**Detailed Segmentation:**

Each section contains quantitative market data including market by value (US\$ Millions), by player, by regions, by Type, and by Application. Data is given for the years 2021-2032 by year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

Global Lithium Extraction Adsorbents Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Lithium Extraction Adsorbents Market, Segmentation by Type:

Aluminum Molecular Sieve Adsorbent

Manganese Ion Sieve Adsorbent

Titanium Ion Sieve Adsorbent

Doped Ion Sieve

Global Lithium Extraction Adsorbents Market, Segmentation by Business Model:

Adsorbent

Service

Global Lithium Extraction Adsorbents Market, Segmentation by Sales:

Direct Selling

Distribution

Global Lithium Extraction Adsorbents Market, Segmentation by Application:

High Magnesium-lithium Ratio Salt Lake Brine

High Sodium-lithium Ratio Salt Lake Brine

Oil and Gas Associated Brine

Lithium-ion Battery Recycling

Other

**Companies Profiled:**

Arcadium Lithium PLC (Rio Tinto)

Minerva Lithium

Eramet

Energy Exploration Technologies

E3 Lithium

International Battery Metals

Qinghai Salt Lake Fozhao Lake Lithium Co., Ltd.

Sunresin New Materials Co.Ltd

Jiangsu Jiuwu Hi-Tech Co., Ltd.

Juneng Yongtuo (Zhuhai) Technology Development Co., Ltd.

Xiamen Wanli Stone Stock Co., Ltd.

Lanshen New Materials

Jiangsu Haipu Functional Materials Co., Ltd.

Beijing Originwater Technology Co., Ltd.

Inter-china Chemical Co., Limited.

Qinghaikuajie

#### Key Questions Answered

1. How big is the global Lithium Extraction Adsorbents market?
2. What is the demand of the global Lithium Extraction Adsorbents market?
3. What is the year over year growth of the global Lithium Extraction Adsorbents market?
4. What is the total value of the global Lithium Extraction Adsorbents market?
5. Who are the Major Players in the global Lithium Extraction Adsorbents market?

6. What are the growth factors driving the market demand?

## Contents

### 1 SUPPLY SUMMARY

- 1.1 Lithium Extraction Adsorbents Introduction
- 1.2 World Lithium Extraction Adsorbents Market Size & Forecast (2021 & 2025 & 2032)
- 1.3 World Lithium Extraction Adsorbents Total Market by Region (by Headquarter Location)
  - 1.3.1 World Lithium Extraction Adsorbents Market Size by Region (2021-2032), (by Headquarter Location)
  - 1.3.2 United States Based Company Lithium Extraction Adsorbents Revenue (2021-2032)
  - 1.3.3 China Based Company Lithium Extraction Adsorbents Revenue (2021-2032)
  - 1.3.4 Europe Based Company Lithium Extraction Adsorbents Revenue (2021-2032)
  - 1.3.5 Japan Based Company Lithium Extraction Adsorbents Revenue (2021-2032)
  - 1.3.6 South Korea Based Company Lithium Extraction Adsorbents Revenue (2021-2032)
  - 1.3.7 ASEAN Based Company Lithium Extraction Adsorbents Revenue (2021-2032)
  - 1.3.8 India Based Company Lithium Extraction Adsorbents Revenue (2021-2032)
- 1.4 Market Drivers, Restraints and Trends
  - 1.4.1 Lithium Extraction Adsorbents Market Drivers
  - 1.4.2 Factors Affecting Demand
  - 1.4.3 Major Market Trends

### 2 DEMAND SUMMARY

- 2.1 World Lithium Extraction Adsorbents Consumption Value (2021-2032)
- 2.2 World Lithium Extraction Adsorbents Consumption Value by Region
  - 2.2.1 World Lithium Extraction Adsorbents Consumption Value by Region (2021-2026)
  - 2.2.2 World Lithium Extraction Adsorbents Consumption Value Forecast by Region (2027-2032)
- 2.3 United States Lithium Extraction Adsorbents Consumption Value (2021-2032)
- 2.4 China Lithium Extraction Adsorbents Consumption Value (2021-2032)
- 2.5 Europe Lithium Extraction Adsorbents Consumption Value (2021-2032)
- 2.6 Japan Lithium Extraction Adsorbents Consumption Value (2021-2032)
- 2.7 South Korea Lithium Extraction Adsorbents Consumption Value (2021-2032)
- 2.8 ASEAN Lithium Extraction Adsorbents Consumption Value (2021-2032)
- 2.9 India Lithium Extraction Adsorbents Consumption Value (2021-2032)

### **3 WORLD LITHIUM EXTRACTION ADSORBENTS COMPANIES COMPETITIVE ANALYSIS**

- 3.1 World Lithium Extraction Adsorbents Revenue by Player (2021-2026)
- 3.2 Industry Rank and Concentration Rate (CR)
  - 3.2.1 Global Lithium Extraction Adsorbents Industry Rank of Major Players
  - 3.2.2 Global Concentration Ratios (CR4) for Lithium Extraction Adsorbents in 2025
  - 3.2.3 Global Concentration Ratios (CR8) for Lithium Extraction Adsorbents in 2025
- 3.3 Lithium Extraction Adsorbents Company Evaluation Quadrant
- 3.4 Lithium Extraction Adsorbents Market: Overall Company Footprint Analysis
  - 3.4.1 Lithium Extraction Adsorbents Market: Region Footprint
  - 3.4.2 Lithium Extraction Adsorbents Market: Company Product Type Footprint
  - 3.4.3 Lithium Extraction Adsorbents Market: Company Product Application Footprint
- 3.5 Competitive Environment
  - 3.5.1 Historical Structure of the Industry
  - 3.5.2 Barriers of Market Entry
  - 3.5.3 Factors of Competition
- 3.6 Mergers & Acquisitions Activity

### **4 UNITED STATES VS CHINA VS REST OF WORLD (BY HEADQUARTER LOCATION)**

- 4.1 United States VS China: Lithium Extraction Adsorbents Revenue Comparison (by Headquarter Location)
  - 4.1.1 United States VS China: Lithium Extraction Adsorbents Revenue Comparison (2021 & 2025 & 2032) (by Headquarter Location)
  - 4.1.2 United States VS China: Lithium Extraction Adsorbents Revenue Market Share Comparison (2021 & 2025 & 2032)
- 4.2 United States Based Companies VS China Based Companies: Lithium Extraction Adsorbents Consumption Value Comparison
  - 4.2.1 United States VS China: Lithium Extraction Adsorbents Consumption Value Comparison (2021 & 2025 & 2032)
  - 4.2.2 United States VS China: Lithium Extraction Adsorbents Consumption Value Market Share Comparison (2021 & 2025 & 2032)
- 4.3 United States Based Lithium Extraction Adsorbents Companies and Market Share, 2021-2026
  - 4.3.1 United States Based Lithium Extraction Adsorbents Companies, Headquarters (States, Country)
  - 4.3.2 United States Based Companies Lithium Extraction Adsorbents Revenue,

(2021-2026)

4.4 China Based Companies Lithium Extraction Adsorbents Revenue and Market Share, 2021-2026

4.4.1 China Based Lithium Extraction Adsorbents Companies, Company Headquarters (Province, Country)

4.4.2 China Based Companies Lithium Extraction Adsorbents Revenue, (2021-2026)

4.5 Rest of World Based Lithium Extraction Adsorbents Companies and Market Share, 2021-2026

4.5.1 Rest of World Based Lithium Extraction Adsorbents Companies, Headquarters (Province, Country)

4.5.2 Rest of World Based Companies Lithium Extraction Adsorbents Revenue (2021-2026)

## **5 MARKET ANALYSIS BY TYPE**

5.1 World Lithium Extraction Adsorbents Market Size Overview by Type: 2021 VS 2025 VS 2032

5.2 Segment Introduction by Type

5.2.1 Aluminum Molecular Sieve Adsorbent

5.2.2 Manganese Ion Sieve Adsorbent

5.2.3 Titanium Ion Sieve Adsorbent

5.2.4 Doped Ion Sieve

5.3 Market Segment by Type

5.3.1 World Lithium Extraction Adsorbents Market Size by Type (2021-2026)

5.3.2 World Lithium Extraction Adsorbents Market Size by Type (2027-2032)

5.3.3 World Lithium Extraction Adsorbents Market Size Market Share by Type (2027-2032)

## **6 MARKET ANALYSIS BY BUSINESS MODEL**

6.1 World Lithium Extraction Adsorbents Market Size Overview by Business Model: 2021 VS 2025 VS 2032

6.2 Segment Introduction by Business Model

6.2.1 Adsorbent

6.2.2 Service

6.3 Market Segment by Business Model

6.3.1 World Lithium Extraction Adsorbents Market Size by Business Model (2021-2026)

6.3.2 World Lithium Extraction Adsorbents Market Size by Business Model

(2027-2032)

6.3.3 World Lithium Extraction Adsorbents Market Size Market Share by Business Model (2027-2032)

## **7 MARKET ANALYSIS BY SALES**

7.1 World Lithium Extraction Adsorbents Market Size Overview by Sales: 2021 VS 2025 VS 2032

7.2 Segment Introduction by Sales

7.2.1 Direct Selling

7.2.2 Distribution

7.3 Market Segment by Sales

7.3.1 World Lithium Extraction Adsorbents Market Size by Sales (2021-2026)

7.3.2 World Lithium Extraction Adsorbents Market Size by Sales (2027-2032)

7.3.3 World Lithium Extraction Adsorbents Market Size Market Share by Sales (2027-2032)

## **8 MARKET ANALYSIS BY APPLICATION**

8.1 World Lithium Extraction Adsorbents Market Size Overview by Application: 2021 VS 2025 VS 2032

8.2 Segment Introduction by Application

8.2.1 High Magnesium-lithium Ratio Salt Lake Brine

8.2.2 High Sodium-lithium Ratio Salt Lake Brine

8.2.3 Oil and Gas Associated Brine

8.2.4 Lithium-ion Battery Recycling

8.2.5 Other

8.3 Market Segment by Application

8.3.1 World Lithium Extraction Adsorbents Market Size by Application (2021-2026)

8.3.2 World Lithium Extraction Adsorbents Market Size by Application (2027-2032)

8.3.3 World Lithium Extraction Adsorbents Market Size Market Share by Application (2021-2032)

## **9 COMPANY PROFILES**

9.1 Arcadium Lithium PLC (Rio Tinto)

9.1.1 Arcadium Lithium PLC (Rio Tinto) Details

9.1.2 Arcadium Lithium PLC (Rio Tinto) Major Business

9.1.3 Arcadium Lithium PLC (Rio Tinto) Lithium Extraction Adsorbents Product and

## Services

9.1.4 Arcadium Lithium PLC (Rio Tinto) Lithium Extraction Adsorbents Revenue, Gross Margin and Market Share (2021-2026)

9.1.5 Arcadium Lithium PLC (Rio Tinto) Recent Developments/Updates

9.1.6 Arcadium Lithium PLC (Rio Tinto) Competitive Strengths & Weaknesses

## 9.2 Minerva Lithium

9.2.1 Minerva Lithium Details

9.2.2 Minerva Lithium Major Business

9.2.3 Minerva Lithium Lithium Extraction Adsorbents Product and Services

9.2.4 Minerva Lithium Lithium Extraction Adsorbents Revenue, Gross Margin and Market Share (2021-2026)

9.2.5 Minerva Lithium Recent Developments/Updates

9.2.6 Minerva Lithium Competitive Strengths & Weaknesses

## 9.3 Eramet

9.3.1 Eramet Details

9.3.2 Eramet Major Business

9.3.3 Eramet Lithium Extraction Adsorbents Product and Services

9.3.4 Eramet Lithium Extraction Adsorbents Revenue, Gross Margin and Market Share (2021-2026)

9.3.5 Eramet Recent Developments/Updates

9.3.6 Eramet Competitive Strengths & Weaknesses

## 9.4 Energy Exploration Technologies

9.4.1 Energy Exploration Technologies Details

9.4.2 Energy Exploration Technologies Major Business

9.4.3 Energy Exploration Technologies Lithium Extraction Adsorbents Product and

## Services

9.4.4 Energy Exploration Technologies Lithium Extraction Adsorbents Revenue, Gross Margin and Market Share (2021-2026)

9.4.5 Energy Exploration Technologies Recent Developments/Updates

9.4.6 Energy Exploration Technologies Competitive Strengths & Weaknesses

## 9.5 E3 Lithium

9.5.1 E3 Lithium Details

9.5.2 E3 Lithium Major Business

9.5.3 E3 Lithium Lithium Extraction Adsorbents Product and Services

9.5.4 E3 Lithium Lithium Extraction Adsorbents Revenue, Gross Margin and Market Share (2021-2026)

9.5.5 E3 Lithium Recent Developments/Updates

9.5.6 E3 Lithium Competitive Strengths & Weaknesses

## 9.6 International Battery Metals

- 9.6.1 International Battery Metals Details
- 9.6.2 International Battery Metals Major Business
- 9.6.3 International Battery Metals Lithium Extraction Adsorbents Product and Services
- 9.6.4 International Battery Metals Lithium Extraction Adsorbents Revenue, Gross Margin and Market Share (2021-2026)
- 9.6.5 International Battery Metals Recent Developments/Updates
- 9.6.6 International Battery Metals Competitive Strengths & Weaknesses
- 9.7 Qinghai Salt Lake Fozhao Lake Lithium Co., Ltd.
  - 9.7.1 Qinghai Salt Lake Fozhao Lake Lithium Co., Ltd. Details
  - 9.7.2 Qinghai Salt Lake Fozhao Lake Lithium Co., Ltd. Major Business
  - 9.7.3 Qinghai Salt Lake Fozhao Lake Lithium Co., Ltd. Lithium Extraction Adsorbents Product and Services
  - 9.7.4 Qinghai Salt Lake Fozhao Lake Lithium Co., Ltd. Lithium Extraction Adsorbents Revenue, Gross Margin and Market Share (2021-2026)
  - 9.7.5 Qinghai Salt Lake Fozhao Lake Lithium Co., Ltd. Recent Developments/Updates
  - 9.7.6 Qinghai Salt Lake Fozhao Lake Lithium Co., Ltd. Competitive Strengths & Weaknesses
- 9.8 Sunresin New Materials Co.Ltd
  - 9.8.1 Sunresin New Materials Co.Ltd Details
  - 9.8.2 Sunresin New Materials Co.Ltd Major Business
  - 9.8.3 Sunresin New Materials Co.Ltd Lithium Extraction Adsorbents Product and Services
  - 9.8.4 Sunresin New Materials Co.Ltd Lithium Extraction Adsorbents Revenue, Gross Margin and Market Share (2021-2026)
  - 9.8.5 Sunresin New Materials Co.Ltd Recent Developments/Updates
  - 9.8.6 Sunresin New Materials Co.Ltd Competitive Strengths & Weaknesses
- 9.9 Jiangsu Jiuwu Hi-Tech Co., Ltd.
  - 9.9.1 Jiangsu Jiuwu Hi-Tech Co., Ltd. Details
  - 9.9.2 Jiangsu Jiuwu Hi-Tech Co., Ltd. Major Business
  - 9.9.3 Jiangsu Jiuwu Hi-Tech Co., Ltd. Lithium Extraction Adsorbents Product and Services
  - 9.9.4 Jiangsu Jiuwu Hi-Tech Co., Ltd. Lithium Extraction Adsorbents Revenue, Gross Margin and Market Share (2021-2026)
  - 9.9.5 Jiangsu Jiuwu Hi-Tech Co., Ltd. Recent Developments/Updates
  - 9.9.6 Jiangsu Jiuwu Hi-Tech Co., Ltd. Competitive Strengths & Weaknesses
- 9.10 Juneng Yongtuo (Zhuhai) Technology Development Co., Ltd.
  - 9.10.1 Juneng Yongtuo (Zhuhai) Technology Development Co., Ltd. Details
  - 9.10.2 Juneng Yongtuo (Zhuhai) Technology Development Co., Ltd. Major Business
  - 9.10.3 Juneng Yongtuo (Zhuhai) Technology Development Co., Ltd. Lithium Extraction

## Adsorbents Product and Services

9.10.4 Juneng Yongtuo (Zhuhai) Technology Development Co., Ltd. Lithium Extraction Adsorbents Revenue, Gross Margin and Market Share (2021-2026)

9.10.5 Juneng Yongtuo (Zhuhai) Technology Development Co., Ltd. Recent Developments/Updates

9.10.6 Juneng Yongtuo (Zhuhai) Technology Development Co., Ltd. Competitive Strengths & Weaknesses

9.11 Xiamen Wanli Stone Stock Co., Ltd.

9.11.1 Xiamen Wanli Stone Stock Co., Ltd. Details

9.11.2 Xiamen Wanli Stone Stock Co., Ltd. Major Business

9.11.3 Xiamen Wanli Stone Stock Co., Ltd. Lithium Extraction Adsorbents Product and Services

9.11.4 Xiamen Wanli Stone Stock Co., Ltd. Lithium Extraction Adsorbents Revenue, Gross Margin and Market Share (2021-2026)

9.11.5 Xiamen Wanli Stone Stock Co., Ltd. Recent Developments/Updates

9.11.6 Xiamen Wanli Stone Stock Co., Ltd. Competitive Strengths & Weaknesses

9.12 Lanshen New Materials

9.12.1 Lanshen New Materials Details

9.12.2 Lanshen New Materials Major Business

9.12.3 Lanshen New Materials Lithium Extraction Adsorbents Product and Services

9.12.4 Lanshen New Materials Lithium Extraction Adsorbents Revenue, Gross Margin and Market Share (2021-2026)

9.12.5 Lanshen New Materials Recent Developments/Updates

9.12.6 Lanshen New Materials Competitive Strengths & Weaknesses

9.13 Jiangsu Haipu Functional Materials Co., Ltd.

9.13.1 Jiangsu Haipu Functional Materials Co., Ltd. Details

9.13.2 Jiangsu Haipu Functional Materials Co., Ltd. Major Business

9.13.3 Jiangsu Haipu Functional Materials Co., Ltd. Lithium Extraction Adsorbents Product and Services

9.13.4 Jiangsu Haipu Functional Materials Co., Ltd. Lithium Extraction Adsorbents Revenue, Gross Margin and Market Share (2021-2026)

9.13.5 Jiangsu Haipu Functional Materials Co., Ltd. Recent Developments/Updates

9.13.6 Jiangsu Haipu Functional Materials Co., Ltd. Competitive Strengths & Weaknesses

9.14 Beijing Originwater Technology Co., Ltd.

9.14.1 Beijing Originwater Technology Co., Ltd. Details

9.14.2 Beijing Originwater Technology Co., Ltd. Major Business

9.14.3 Beijing Originwater Technology Co., Ltd. Lithium Extraction Adsorbents Product and Services

9.14.4 Beijing Originwater Technology Co., Ltd. Lithium Extraction Adsorbents Revenue, Gross Margin and Market Share (2021-2026)

9.14.5 Beijing Originwater Technology Co., Ltd. Recent Developments/Updates

9.14.6 Beijing Originwater Technology Co., Ltd. Competitive Strengths & Weaknesses

9.15 Inter-china Chemical Co., Limited.

9.15.1 Inter-china Chemical Co., Limited. Details

9.15.2 Inter-china Chemical Co., Limited. Major Business

9.15.3 Inter-china Chemical Co., Limited. Lithium Extraction Adsorbents Product and Services

9.15.4 Inter-china Chemical Co., Limited. Lithium Extraction Adsorbents Revenue, Gross Margin and Market Share (2021-2026)

9.15.5 Inter-china Chemical Co., Limited. Recent Developments/Updates

9.15.6 Inter-china Chemical Co., Limited. Competitive Strengths & Weaknesses

9.16 Qinghaikuajie

9.16.1 Qinghaikuajie Details

9.16.2 Qinghaikuajie Major Business

9.16.3 Qinghaikuajie Lithium Extraction Adsorbents Product and Services

9.16.4 Qinghaikuajie Lithium Extraction Adsorbents Revenue, Gross Margin and Market Share (2021-2026)

9.16.5 Qinghaikuajie Recent Developments/Updates

9.16.6 Qinghaikuajie Competitive Strengths & Weaknesses

## **10 INDUSTRY CHAIN ANALYSIS**

10.1 Lithium Extraction Adsorbents Industry Chain

10.2 Lithium Extraction Adsorbents Upstream Analysis

10.3 Lithium Extraction Adsorbents Midstream Analysis

10.4 Lithium Extraction Adsorbents Downstream Analysis

## **11 RESEARCH FINDINGS AND CONCLUSION**

## **12 APPENDIX**

12.1 Methodology

12.2 Research Process and Data Source

12.3 Disclaimer

## List Of Tables

### LIST OF TABLES

Table 1. World Lithium Extraction Adsorbents Revenue by Region (2021, 2025 and 2032) & (USD Million), (by Headquarter Location)

Table 2. World Lithium Extraction Adsorbents Revenue by Region (2021-2026) & (USD Million), (by Headquarter Location)

Table 3. World Lithium Extraction Adsorbents Revenue by Region (2027-2032) & (USD Million), (by Headquarter Location)

Table 4. World Lithium Extraction Adsorbents Revenue Market Share by Region (2021-2026), (by Headquarter Location)

Table 5. World Lithium Extraction Adsorbents Revenue Market Share by Region (2027-2032), (by Headquarter Location)

Table 6. Major Market Trends

Table 7. World Lithium Extraction Adsorbents Consumption Value Growth Rate Forecast by Region (2021 & 2025 & 2032) & (USD Million)

Table 8. World Lithium Extraction Adsorbents Consumption Value by Region (2021-2026) & (USD Million)

Table 9. World Lithium Extraction Adsorbents Consumption Value Forecast by Region (2027-2032) & (USD Million)

Table 10. World Lithium Extraction Adsorbents Revenue by Player (2021-2026) & (USD Million)

Table 11. Revenue Market Share of Key Lithium Extraction Adsorbents Players in 2025

Table 12. World Lithium Extraction Adsorbents Industry Rank of Major Player, Based on Revenue in 2025

Table 13. Global Lithium Extraction Adsorbents Company Evaluation Quadrant

Table 14. Head Office of Key Lithium Extraction Adsorbents Players

Table 15. Lithium Extraction Adsorbents Market: Company Product Type Footprint

Table 16. Lithium Extraction Adsorbents Market: Company Product Application Footprint

Table 17. Lithium Extraction Adsorbents Mergers & Acquisitions Activity

Table 18. United States VS China Lithium Extraction Adsorbents Revenue Comparison, (2021 & 2025 & 2032) & (USD Million)

Table 19. United States VS China Lithium Extraction Adsorbents Consumption Value Comparison, (2021 & 2025 & 2032) & (USD Million)

Table 20. United States Based Lithium Extraction Adsorbents Companies, Headquarters (States, Country)

Table 21. United States Based Companies Lithium Extraction Adsorbents Revenue,

(2021-2026) & (USD Million)

Table 22. United States Based Companies Lithium Extraction Adsorbents Revenue Market Share (2021-2026)

Table 23. China Based Lithium Extraction Adsorbents Companies, Headquarters (Province, Country)

Table 24. China Based Companies Lithium Extraction Adsorbents Revenue, (2021-2026) & (USD Million)

Table 25. China Based Companies Lithium Extraction Adsorbents Revenue Market Share (2021-2026)

Table 26. Rest of World Based Lithium Extraction Adsorbents Companies, Headquarters (Province, Country)

Table 27. Rest of World Based Companies Lithium Extraction Adsorbents Revenue (2021-2026) & (USD Million)

Table 28. Rest of World Based Companies Lithium Extraction Adsorbents Revenue Market Share (2021-2026)

Table 29. World Lithium Extraction Adsorbents Market Size by Type, (USD Million), 2021 & 2025 & 2032

Table 30. World Lithium Extraction Adsorbents Market Size Value by Type (2021-2026) & (USD Million)

Table 31. World Lithium Extraction Adsorbents Market Size by Type (2027-2032) & (USD Million)

Table 32. World Lithium Extraction Adsorbents Market Size by Business Model, (USD Million), 2021 & 2025 & 2032

Table 33. World Lithium Extraction Adsorbents Market Size Value by Business Model (2021-2026) & (USD Million)

Table 34. World Lithium Extraction Adsorbents Market Size by Business Model (2027-2032) & (USD Million)

Table 35. World Lithium Extraction Adsorbents Market Size by Sales, (USD Million), 2021 & 2025 & 2032

Table 36. World Lithium Extraction Adsorbents Market Size Value by Sales (2021-2026) & (USD Million)

Table 37. World Lithium Extraction Adsorbents Market Size by Sales (2027-2032) & (USD Million)

Table 38. World Lithium Extraction Adsorbents Market Size by Application, (USD Million), 2021 & 2025 & 2032

Table 39. World Lithium Extraction Adsorbents Market Size by Application (2021-2026) & (USD Million)

Table 40. World Lithium Extraction Adsorbents Market Size by Application (2027-2032) & (USD Million)

- Table 41. Arcadium Lithium PLC (Rio Tinto) Basic Information, Manufacturing Base and Competitors
- Table 42. Arcadium Lithium PLC (Rio Tinto) Major Business
- Table 43. Arcadium Lithium PLC (Rio Tinto) Lithium Extraction Adsorbents Product and Services
- Table 44. Arcadium Lithium PLC (Rio Tinto) Lithium Extraction Adsorbents Revenue, Gross Margin and Market Share (2021-2026) & (USD Million)
- Table 45. Arcadium Lithium PLC (Rio Tinto) Recent Developments/Updates
- Table 46. Arcadium Lithium PLC (Rio Tinto) Competitive Strengths & Weaknesses
- Table 47. Minerva Lithium Basic Information, Manufacturing Base and Competitors
- Table 48. Minerva Lithium Major Business
- Table 49. Minerva Lithium Lithium Extraction Adsorbents Product and Services
- Table 50. Minerva Lithium Lithium Extraction Adsorbents Revenue, Gross Margin and Market Share (2021-2026) & (USD Million)
- Table 51. Minerva Lithium Recent Developments/Updates
- Table 52. Minerva Lithium Competitive Strengths & Weaknesses
- Table 53. Eramet Basic Information, Manufacturing Base and Competitors
- Table 54. Eramet Major Business
- Table 55. Eramet Lithium Extraction Adsorbents Product and Services
- Table 56. Eramet Lithium Extraction Adsorbents Revenue, Gross Margin and Market Share (2021-2026) & (USD Million)
- Table 57. Eramet Recent Developments/Updates
- Table 58. Eramet Competitive Strengths & Weaknesses
- Table 59. Energy Exploration Technologies Basic Information, Manufacturing Base and Competitors
- Table 60. Energy Exploration Technologies Major Business
- Table 61. Energy Exploration Technologies Lithium Extraction Adsorbents Product and Services
- Table 62. Energy Exploration Technologies Lithium Extraction Adsorbents Revenue, Gross Margin and Market Share (2021-2026) & (USD Million)
- Table 63. Energy Exploration Technologies Recent Developments/Updates
- Table 64. Energy Exploration Technologies Competitive Strengths & Weaknesses
- Table 65. E3 Lithium Basic Information, Manufacturing Base and Competitors
- Table 66. E3 Lithium Major Business
- Table 67. E3 Lithium Lithium Extraction Adsorbents Product and Services
- Table 68. E3 Lithium Lithium Extraction Adsorbents Revenue, Gross Margin and Market Share (2021-2026) & (USD Million)
- Table 69. E3 Lithium Recent Developments/Updates
- Table 70. E3 Lithium Competitive Strengths & Weaknesses

Table 71. International Battery Metals Basic Information, Manufacturing Base and Competitors

Table 72. International Battery Metals Major Business

Table 73. International Battery Metals Lithium Extraction Adsorbents Product and Services

Table 74. International Battery Metals Lithium Extraction Adsorbents Revenue, Gross Margin and Market Share (2021-2026) & (USD Million)

Table 75. International Battery Metals Recent Developments/Updates

Table 76. International Battery Metals Competitive Strengths & Weaknesses

Table 77. Qinghai Salt Lake Fozhao Lake Lithium Co., Ltd. Basic Information, Manufacturing Base and Competitors

Table 78. Qinghai Salt Lake Fozhao Lake Lithium Co., Ltd. Major Business

Table 79. Qinghai Salt Lake Fozhao Lake Lithium Co., Ltd. Lithium Extraction Adsorbents Product and Services

Table 80. Qinghai Salt Lake Fozhao Lake Lithium Co., Ltd. Lithium Extraction Adsorbents Revenue, Gross Margin and Market Share (2021-2026) & (USD Million)

Table 81. Qinghai Salt Lake Fozhao Lake Lithium Co., Ltd. Recent Developments/Updates

Table 82. Qinghai Salt Lake Fozhao Lake Lithium Co., Ltd. Competitive Strengths & Weaknesses

Table 83. Sunresin New Materials Co.Ltd Basic Information, Manufacturing Base and Competitors

Table 84. Sunresin New Materials Co.Ltd Major Business

Table 85. Sunresin New Materials Co.Ltd Lithium Extraction Adsorbents Product and Services

Table 86. Sunresin New Materials Co.Ltd Lithium Extraction Adsorbents Revenue, Gross Margin and Market Share (2021-2026) & (USD Million)

Table 87. Sunresin New Materials Co.Ltd Recent Developments/Updates

Table 88. Sunresin New Materials Co.Ltd Competitive Strengths & Weaknesses

Table 89. Jiangsu Jiuwu Hi-Tech Co., Ltd. Basic Information, Manufacturing Base and Competitors

Table 90. Jiangsu Jiuwu Hi-Tech Co., Ltd. Major Business

Table 91. Jiangsu Jiuwu Hi-Tech Co., Ltd. Lithium Extraction Adsorbents Product and Services

Table 92. Jiangsu Jiuwu Hi-Tech Co., Ltd. Lithium Extraction Adsorbents Revenue, Gross Margin and Market Share (2021-2026) & (USD Million)

Table 93. Jiangsu Jiuwu Hi-Tech Co., Ltd. Recent Developments/Updates

Table 94. Jiangsu Jiuwu Hi-Tech Co., Ltd. Competitive Strengths & Weaknesses

Table 95. Juneng Yongtuo (Zhuhai) Technology Development Co., Ltd. Basic

Information, Manufacturing Base and Competitors

Table 96. Juneng Yongtuo (Zhuhai) Technology Development Co., Ltd. Major Business

Table 97. Juneng Yongtuo (Zhuhai) Technology Development Co., Ltd. Lithium Extraction Adsorbents Product and Services

Table 98. Juneng Yongtuo (Zhuhai) Technology Development Co., Ltd. Lithium Extraction Adsorbents Revenue, Gross Margin and Market Share (2021-2026) & (USD Million)

Table 99. Juneng Yongtuo (Zhuhai) Technology Development Co., Ltd. Recent Developments/Updates

Table 100. Juneng Yongtuo (Zhuhai) Technology Development Co., Ltd. Competitive Strengths & Weaknesses

Table 101. Xiamen Wanli Stone Stock Co., Ltd. Basic Information, Manufacturing Base and Competitors

Table 102. Xiamen Wanli Stone Stock Co., Ltd. Major Business

Table 103. Xiamen Wanli Stone Stock Co., Ltd. Lithium Extraction Adsorbents Product and Services

Table 104. Xiamen Wanli Stone Stock Co., Ltd. Lithium Extraction Adsorbents Revenue, Gross Margin and Market Share (2021-2026) & (USD Million)

Table 105. Xiamen Wanli Stone Stock Co., Ltd. Recent Developments/Updates

Table 106. Xiamen Wanli Stone Stock Co., Ltd. Competitive Strengths & Weaknesses

Table 107. Lanshen New Materials Basic Information, Manufacturing Base and Competitors

Table 108. Lanshen New Materials Major Business

Table 109. Lanshen New Materials Lithium Extraction Adsorbents Product and Services

Table 110. Lanshen New Materials Lithium Extraction Adsorbents Revenue, Gross Margin and Market Share (2021-2026) & (USD Million)

Table 111. Lanshen New Materials Recent Developments/Updates

Table 112. Lanshen New Materials Competitive Strengths & Weaknesses

Table 113. Jiangsu Haipu Functional Materials Co., Ltd. Basic Information, Manufacturing Base and Competitors

Table 114. Jiangsu Haipu Functional Materials Co., Ltd. Major Business

Table 115. Jiangsu Haipu Functional Materials Co., Ltd. Lithium Extraction Adsorbents Product and Services

Table 116. Jiangsu Haipu Functional Materials Co., Ltd. Lithium Extraction Adsorbents Revenue, Gross Margin and Market Share (2021-2026) & (USD Million)

Table 117. Jiangsu Haipu Functional Materials Co., Ltd. Recent Developments/Updates

Table 118. Jiangsu Haipu Functional Materials Co., Ltd. Competitive Strengths & Weaknesses

Table 119. Beijing Originwater Technology Co., Ltd. Basic Information, Manufacturing

## Base and Competitors

Table 120. Beijing Originwater Technology Co., Ltd. Major Business

Table 121. Beijing Originwater Technology Co., Ltd. Lithium Extraction Adsorbents Product and Services

Table 122. Beijing Originwater Technology Co., Ltd. Lithium Extraction Adsorbents Revenue, Gross Margin and Market Share (2021-2026) & (USD Million)

Table 123. Beijing Originwater Technology Co., Ltd. Recent Developments/Updates

Table 124. Beijing Originwater Technology Co., Ltd. Competitive Strengths & Weaknesses

Table 125. Inter-china Chemical Co., Limited. Basic Information, Manufacturing Base and Competitors

Table 126. Inter-china Chemical Co., Limited. Major Business

Table 127. Inter-china Chemical Co., Limited. Lithium Extraction Adsorbents Product and Services

Table 128. Inter-china Chemical Co., Limited. Lithium Extraction Adsorbents Revenue, Gross Margin and Market Share (2021-2026) & (USD Million)

Table 129. Inter-china Chemical Co., Limited. Recent Developments/Updates

Table 130. Inter-china Chemical Co., Limited. Competitive Strengths & Weaknesses

Table 131. Qinghaikuajie Basic Information, Manufacturing Base and Competitors

Table 132. Qinghaikuajie Major Business

Table 133. Qinghaikuajie Lithium Extraction Adsorbents Product and Services

Table 134. Qinghaikuajie Lithium Extraction Adsorbents Revenue, Gross Margin and Market Share (2021-2026) & (USD Million)

Table 135. Qinghaikuajie Recent Developments/Updates

Table 136. Qinghaikuajie Competitive Strengths & Weaknesses

Table 137. Global Key Players of Lithium Extraction Adsorbents Upstream (Raw Materials)

Table 138. Global Lithium Extraction Adsorbents Typical Customers

## List Of Figures

### LIST OF FIGURES

Figure 1. Lithium Extraction Adsorbents Picture

Figure 2. World Lithium Extraction Adsorbents Total Revenue: 2021 & 2025 & 2032, (USD Million)

Figure 3. World Lithium Extraction Adsorbents Total Revenue (2021-2032) & (USD Million)

Figure 4. World Lithium Extraction Adsorbents Revenue by Region (2021, 2025 and 2032) & (USD Million), (by Headquarter Location)

Figure 5. World Lithium Extraction Adsorbents Revenue Market Share by Region (2021-2032), (by Headquarter Location)

Figure 6. United States Based Company Lithium Extraction Adsorbents Revenue (2021-2032) & (USD Million)

Figure 7. China Based Company Lithium Extraction Adsorbents Revenue (2021-2032) & (USD Million)

Figure 8. Europe Based Company Lithium Extraction Adsorbents Revenue (2021-2032) & (USD Million)

Figure 9. Japan Based Company Lithium Extraction Adsorbents Revenue (2021-2032) & (USD Million)

Figure 10. South Korea Based Company Lithium Extraction Adsorbents Revenue (2021-2032) & (USD Million)

Figure 11. ASEAN Based Company Lithium Extraction Adsorbents Revenue (2021-2032) & (USD Million)

Figure 12. India Based Company Lithium Extraction Adsorbents Revenue (2021-2032) & (USD Million)

Figure 13. Lithium Extraction Adsorbents Market Drivers

Figure 14. Factors Affecting Demand

Figure 15. World Lithium Extraction Adsorbents Consumption Value (2021-2032) & (USD Million)

Figure 16. World Lithium Extraction Adsorbents Consumption Value Market Share by Region (2021-2032)

Figure 17. United States Lithium Extraction Adsorbents Consumption Value (2021-2032) & (USD Million)

Figure 18. China Lithium Extraction Adsorbents Consumption Value (2021-2032) & (USD Million)

Figure 19. Europe Lithium Extraction Adsorbents Consumption Value (2021-2032) & (USD Million)

Figure 20. Japan Lithium Extraction Adsorbents Consumption Value (2021-2032) & (USD Million)

Figure 21. South Korea Lithium Extraction Adsorbents Consumption Value (2021-2032) & (USD Million)

Figure 22. ASEAN Lithium Extraction Adsorbents Consumption Value (2021-2032) & (USD Million)

Figure 23. India Lithium Extraction Adsorbents Consumption Value (2021-2032) & (USD Million)

Figure 24. Producer Shipments of Lithium Extraction Adsorbents by Player Revenue (\$MM) and Market Share (%): 2025

Figure 25. Global Four-firm Concentration Ratios (CR4) for Lithium Extraction Adsorbents Markets in 2025

Figure 26. Global Four-firm Concentration Ratios (CR8) for Lithium Extraction Adsorbents Markets in 2025

Figure 27. United States VS China: Lithium Extraction Adsorbents Revenue Market Share Comparison (2021 & 2025 & 2032)

Figure 28. United States VS China: Lithium Extraction Adsorbents Consumption Value Market Share Comparison (2021 & 2025 & 2032)

Figure 29. World Lithium Extraction Adsorbents Market Size by Type, (USD Million), 2021 & 2025 & 2032

Figure 30. World Lithium Extraction Adsorbents Market Size Market Share by Type in 2025

Figure 31. Aluminum Molecular Sieve Adsorbent

Figure 32. Manganese Ion Sieve Adsorbent

Figure 33. Titanium Ion Sieve Adsorbent

Figure 34. Doped Ion Sieve

Figure 35. World Lithium Extraction Adsorbents Market Size Market Share by Type (2021-2032)

Figure 36. World Lithium Extraction Adsorbents Market Size by Business Model, (USD Million), 2021 & 2025 & 2032

Figure 37. World Lithium Extraction Adsorbents Market Size Market Share by Business Model in 2025

Figure 38. Adsorbent

Figure 39. Service

Figure 40. World Lithium Extraction Adsorbents Market Size Market Share by Business Model (2021-2032)

Figure 41. World Lithium Extraction Adsorbents Market Size by Sales, (USD Million), 2021 & 2025 & 2032

Figure 42. World Lithium Extraction Adsorbents Market Size Market Share by Sales in

2025

Figure 43. Direct Selling

Figure 44. Distribution

Figure 45. World Lithium Extraction Adsorbents Market Size Market Share by Sales (2021-2032)

Figure 46. World Lithium Extraction Adsorbents Market Size by Application, (USD Million), 2021 & 2025 & 2032

Figure 47. World Lithium Extraction Adsorbents Market Size Market Share by Application in 2025

Figure 48. High Magnesium-lithium Ratio Salt Lake Brine

Figure 49. High Sodium-lithium Ratio Salt Lake Brine

Figure 50. Oil and Gas Associated Brine

Figure 51. Lithium-ion Battery Recycling

Figure 52. Other

Figure 53. World Lithium Extraction Adsorbents Market Size Market Share by Application (2021-2032)

Figure 54. Lithium Extraction Adsorbents Industrial Chain

Figure 55. Methodology

Figure 56. Research Process and Data Source

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