

Global Single Crystal Medium-High Nickel NCM Ternary Precursor Market Growth 2023-2029

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Abstracts

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According to our (LP Info Research) latest study, the global Single Crystal Medium-High Nickel NCM Ternary Precursor market size was valued at US\$ million in 2022. With growing demand in downstream market and recovery from influence of COVID-19 and the Russia-Ukraine War, the Single Crystal Medium-High Nickel NCM Ternary Precursor is forecast to a readjusted size of US\$ million by 2029 with a CAGR of % during review period.

The research report highlights the growth potential of the global Single Crystal Medium-High Nickel NCM Ternary Precursor market. With recovery from influence of COVID-19 and the Russia-Ukraine War, Single Crystal Medium-High Nickel NCM Ternary Precursor are expected to show stable growth in the future market. However, product differentiation, reducing costs, and supply chain optimization remain crucial for the widespread adoption of Single Crystal Medium-High Nickel NCM Ternary Precursor. Market players need to invest in research and development, forge strategic partnerships, and align their offerings with evolving consumer preferences to capitalize on the immense opportunities presented by the Single Crystal Medium-High Nickel NCM Ternary Precursor market.

The single-crystal high-nickel NCM ternary precursor is a precursor material for the synthesis of single-crystal $\text{LiNi}_x\text{Co}_y\text{Mn}_z\text{O}_2$ (NCM) cathode materials for lithium-ion batteries. Compared with polycrystalline NCM cathodes, single-crystalline NCM cathodes exhibit improved structural integrity, suppressed particle breakage, and enhanced capacity retention. The ternary precursor of high-nickel NCM in single crystal is usually prepared by molten salt method, and the polycrystalline NCM precursor is

dissolved in lithium-based molten salt, and then recrystallized into single crystal NCM particles. Medium and high nickel content refers to the proportion of Ni in the composition, generally between 60% and 80%. The higher the nickel content, the higher the specific capacity and energy density of the cathode material.

Key Features:

The report on Single Crystal Medium-High Nickel NCM Ternary Precursor market reflects various aspects and provide valuable insights into the industry.

Market Size and Growth: The research report provide an overview of the current size and growth of the Single Crystal Medium-High Nickel NCM Ternary Precursor market. It may include historical data, market segmentation by Type (e.g., NCM622, NCM811), and regional breakdowns.

Market Drivers and Challenges: The report can identify and analyse the factors driving the growth of the Single Crystal Medium-High Nickel NCM Ternary Precursor market, such as government regulations, environmental concerns, technological advancements, and changing consumer preferences. It can also highlight the challenges faced by the industry, including infrastructure limitations, range anxiety, and high upfront costs.

Competitive Landscape: The research report provides analysis of the competitive landscape within the Single Crystal Medium-High Nickel NCM Ternary Precursor market. It includes profiles of key players, their market share, strategies, and product offerings. The report can also highlight emerging players and their potential impact on the market.

Technological Developments: The research report can delve into the latest technological developments in the Single Crystal Medium-High Nickel NCM Ternary Precursor industry. This include advancements in Single Crystal Medium-High Nickel NCM Ternary Precursor technology, Single Crystal Medium-High Nickel NCM Ternary Precursor new entrants, Single Crystal Medium-High Nickel NCM Ternary Precursor new investment, and other innovations that are shaping the future of Single Crystal Medium-High Nickel NCM Ternary Precursor.

Downstream Procumbent Preference: The report can shed light on customer procumbent behaviour and adoption trends in the Single Crystal Medium-High Nickel NCM Ternary Precursor market. It includes factors influencing customer ' purchasing decisions, preferences for Single Crystal Medium-High Nickel NCM Ternary Precursor

product.

Government Policies and Incentives: The research report analyse the impact of government policies and incentives on the Single Crystal Medium-High Nickel NCM Ternary Precursor market. This may include an assessment of regulatory frameworks, subsidies, tax incentives, and other measures aimed at promoting Single Crystal Medium-High Nickel NCM Ternary Precursor market. The report also evaluates the effectiveness of these policies in driving market growth.

Environmental Impact and Sustainability: The research report assess the environmental impact and sustainability aspects of the Single Crystal Medium-High Nickel NCM Ternary Precursor market.

Market Forecasts and Future Outlook: Based on the analysis conducted, the research report provide market forecasts and outlook for the Single Crystal Medium-High Nickel NCM Ternary Precursor industry. This includes projections of market size, growth rates, regional trends, and predictions on technological advancements and policy developments.

Recommendations and Opportunities: The report conclude with recommendations for industry stakeholders, policymakers, and investors. It highlights potential opportunities for market players to capitalize on emerging trends, overcome challenges, and contribute to the growth and development of the Single Crystal Medium-High Nickel NCM Ternary Precursor market.

Market Segmentation:

Single Crystal Medium-High Nickel NCM Ternary Precursor market is split by Type and by Application. For the period 2018-2029, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value.

Segmentation by type

NCM622

NCM811

Segmentation by application

Automobile Industry

Consumer Electronics Industry

Energy Storage Industry

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 analyzing the company's coverage, product portfolio, its market penetration.

Zhejiang Power New Energy Co., Ltd.

GEM

Huayou Cobalt

CNGR Advanced Materials

Brunp

Libode

Hunan Kingfuli New Energy

Greatpower Technology

JIANA ENERGY

Key Questions Addressed in this Report

What is the 10-year outlook for the global Single Crystal Medium-High Nickel NCM Ternary Precursor market?

What factors are driving Single Crystal Medium-High Nickel NCM Ternary Precursor market growth, globally and by region?

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

How do Single Crystal Medium-High Nickel NCM Ternary Precursor market opportunities vary by end market size?

How does Single Crystal Medium-High Nickel NCM Ternary Precursor break out type, application?

What are the influences of COVID-19 and Russia-Ukraine war?

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 Single Crystal Medium-High Nickel NCM Ternary Precursor Annual Sales 2018-2029

2.1.2 World Current & Future Analysis for Single Crystal Medium-High Nickel NCM Ternary Precursor by Geographic Region, 2018, 2022 & 2029

2.1.3 World Current & Future Analysis for Single Crystal Medium-High Nickel NCM Ternary Precursor by Country/Region, 2018, 2022 & 2029

2.2 Single Crystal Medium-High Nickel NCM Ternary Precursor Segment by Type

2.2.1 NCM622

2.2.2 NCM811

2.3 Single Crystal Medium-High Nickel NCM Ternary Precursor Sales by Type

2.3.1 Global Single Crystal Medium-High Nickel NCM Ternary Precursor Sales Market Share by Type (2018-2023)

2.3.2 Global Single Crystal Medium-High Nickel NCM Ternary Precursor Revenue and Market Share by Type (2018-2023)

2.3.3 Global Single Crystal Medium-High Nickel NCM Ternary Precursor Sale Price by Type (2018-2023)

2.4 Single Crystal Medium-High Nickel NCM Ternary Precursor Segment by Application

2.4.1 Automobile Industry

2.4.2 Consumer Electronics Industry

2.4.3 Energy Storage Industry

2.4.4 Others

2.5 Single Crystal Medium-High Nickel NCM Ternary Precursor Sales by Application

2.5.1 Global Single Crystal Medium-High Nickel NCM Ternary Precursor Sale Market

Share by Application (2018-2023)

2.5.2 Global Single Crystal Medium-High Nickel NCM Ternary Precursor Revenue and Market Share by Application (2018-2023)

2.5.3 Global Single Crystal Medium-High Nickel NCM Ternary Precursor Sale Price by Application (2018-2023)

3 GLOBAL SINGLE CRYSTAL MEDIUM-HIGH NICKEL NCM TERNARY PRECURSOR BY COMPANY

3.1 Global Single Crystal Medium-High Nickel NCM Ternary Precursor Breakdown Data by Company

3.1.1 Global Single Crystal Medium-High Nickel NCM Ternary Precursor Annual Sales by Company (2018-2023)

3.1.2 Global Single Crystal Medium-High Nickel NCM Ternary Precursor Sales Market Share by Company (2018-2023)

3.2 Global Single Crystal Medium-High Nickel NCM Ternary Precursor Annual Revenue by Company (2018-2023)

3.2.1 Global Single Crystal Medium-High Nickel NCM Ternary Precursor Revenue by Company (2018-2023)

3.2.2 Global Single Crystal Medium-High Nickel NCM Ternary Precursor Revenue Market Share by Company (2018-2023)

3.3 Global Single Crystal Medium-High Nickel NCM Ternary Precursor Sale Price by Company

3.4 Key Manufacturers Single Crystal Medium-High Nickel NCM Ternary Precursor Producing Area Distribution, Sales Area, Product Type

3.4.1 Key Manufacturers Single Crystal Medium-High Nickel NCM Ternary Precursor Product Location Distribution

3.4.2 Players Single Crystal Medium-High Nickel NCM Ternary Precursor Products Offered

3.5 Market Concentration Rate Analysis

3.5.1 Competition Landscape Analysis

3.5.2 Concentration Ratio (CR3, CR5 and CR10) & (2018-2023)

3.6 New Products and Potential Entrants

3.7 Mergers & Acquisitions, Expansion

4 WORLD HISTORIC REVIEW FOR SINGLE CRYSTAL MEDIUM-HIGH NICKEL NCM TERNARY PRECURSOR BY GEOGRAPHIC REGION

4.1 World Historic Single Crystal Medium-High Nickel NCM Ternary Precursor Market

Size by Geographic Region (2018-2023)

4.1.1 Global Single Crystal Medium-High Nickel NCM Ternary Precursor Annual Sales by Geographic Region (2018-2023)

4.1.2 Global Single Crystal Medium-High Nickel NCM Ternary Precursor Annual Revenue by Geographic Region (2018-2023)

4.2 World Historic Single Crystal Medium-High Nickel NCM Ternary Precursor Market Size by Country/Region (2018-2023)

4.2.1 Global Single Crystal Medium-High Nickel NCM Ternary Precursor Annual Sales by Country/Region (2018-2023)

4.2.2 Global Single Crystal Medium-High Nickel NCM Ternary Precursor Annual Revenue by Country/Region (2018-2023)

4.3 Americas Single Crystal Medium-High Nickel NCM Ternary Precursor Sales Growth

4.4 APAC Single Crystal Medium-High Nickel NCM Ternary Precursor Sales Growth

4.5 Europe Single Crystal Medium-High Nickel NCM Ternary Precursor Sales Growth

4.6 Middle East & Africa Single Crystal Medium-High Nickel NCM Ternary Precursor Sales Growth

5 AMERICAS

5.1 Americas Single Crystal Medium-High Nickel NCM Ternary Precursor Sales by Country

5.1.1 Americas Single Crystal Medium-High Nickel NCM Ternary Precursor Sales by Country (2018-2023)

5.1.2 Americas Single Crystal Medium-High Nickel NCM Ternary Precursor Revenue by Country (2018-2023)

5.2 Americas Single Crystal Medium-High Nickel NCM Ternary Precursor Sales by Type

5.3 Americas Single Crystal Medium-High Nickel NCM Ternary Precursor Sales by Application

5.4 United States

5.5 Canada

5.6 Mexico

5.7 Brazil

6 APAC

6.1 APAC Single Crystal Medium-High Nickel NCM Ternary Precursor Sales by Region

6.1.1 APAC Single Crystal Medium-High Nickel NCM Ternary Precursor Sales by Region (2018-2023)

6.1.2 APAC Single Crystal Medium-High Nickel NCM Ternary Precursor Revenue by Region (2018-2023)

6.2 APAC Single Crystal Medium-High Nickel NCM Ternary Precursor Sales by Type

6.3 APAC Single Crystal Medium-High Nickel NCM Ternary Precursor Sales by Application

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 Single Crystal Medium-High Nickel NCM Ternary Precursor by Country

7.1.1 Europe Single Crystal Medium-High Nickel NCM Ternary Precursor Sales by Country (2018-2023)

7.1.2 Europe Single Crystal Medium-High Nickel NCM Ternary Precursor Revenue by Country (2018-2023)

7.2 Europe Single Crystal Medium-High Nickel NCM Ternary Precursor Sales by Type

7.3 Europe Single Crystal Medium-High Nickel NCM Ternary Precursor Sales by Application

7.4 Germany

7.5 France

7.6 UK

7.7 Italy

7.8 Russia

8 MIDDLE EAST & AFRICA

8.1 Middle East & Africa Single Crystal Medium-High Nickel NCM Ternary Precursor by Country

8.1.1 Middle East & Africa Single Crystal Medium-High Nickel NCM Ternary Precursor Sales by Country (2018-2023)

8.1.2 Middle East & Africa Single Crystal Medium-High Nickel NCM Ternary Precursor Revenue by Country (2018-2023)

8.2 Middle East & Africa Single Crystal Medium-High Nickel NCM Ternary Precursor Sales by Type

8.3 Middle East & Africa Single Crystal Medium-High Nickel NCM Ternary Precursor Sales by Application

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 Single Crystal Medium-High Nickel NCM Ternary Precursor

10.3 Manufacturing Process Analysis of Single Crystal Medium-High Nickel NCM Ternary Precursor

10.4 Industry Chain Structure of Single Crystal Medium-High Nickel NCM Ternary Precursor

11 MARKETING, DISTRIBUTORS AND CUSTOMER

11.1 Sales Channel

11.1.1 Direct Channels

11.1.2 Indirect Channels

11.2 Single Crystal Medium-High Nickel NCM Ternary Precursor Distributors

11.3 Single Crystal Medium-High Nickel NCM Ternary Precursor Customer

12 WORLD FORECAST REVIEW FOR SINGLE CRYSTAL MEDIUM-HIGH NICKEL NCM TERNARY PRECURSOR BY GEOGRAPHIC REGION

12.1 Global Single Crystal Medium-High Nickel NCM Ternary Precursor Market Size Forecast by Region

12.1.1 Global Single Crystal Medium-High Nickel NCM Ternary Precursor Forecast by Region (2024-2029)

- 12.1.2 Global Single Crystal Medium-High Nickel NCM Ternary Precursor Annual Revenue Forecast by Region (2024-2029)
- 12.2 Americas Forecast by Country
- 12.3 APAC Forecast by Region
- 12.4 Europe Forecast by Country
- 12.5 Middle East & Africa Forecast by Country
- 12.6 Global Single Crystal Medium-High Nickel NCM Ternary Precursor Forecast by Type
- 12.7 Global Single Crystal Medium-High Nickel NCM Ternary Precursor Forecast by Application

13 KEY PLAYERS ANALYSIS

13.1 Zhejiang Power New Energy Co., Ltd.

- 13.1.1 Zhejiang Power New Energy Co., Ltd. Company Information
- 13.1.2 Zhejiang Power New Energy Co., Ltd. Single Crystal Medium-High Nickel NCM Ternary Precursor Product Portfolios and Specifications
- 13.1.3 Zhejiang Power New Energy Co., Ltd. Single Crystal Medium-High Nickel NCM Ternary Precursor Sales, Revenue, Price and Gross Margin (2018-2023)
- 13.1.4 Zhejiang Power New Energy Co., Ltd. Main Business Overview
- 13.1.5 Zhejiang Power New Energy Co., Ltd. Latest Developments

13.2 GEM

- 13.2.1 GEM Company Information
- 13.2.2 GEM Single Crystal Medium-High Nickel NCM Ternary Precursor Product Portfolios and Specifications
- 13.2.3 GEM Single Crystal Medium-High Nickel NCM Ternary Precursor Sales, Revenue, Price and Gross Margin (2018-2023)
- 13.2.4 GEM Main Business Overview
- 13.2.5 GEM Latest Developments

13.3 Huayou Cobalt

- 13.3.1 Huayou Cobalt Company Information
- 13.3.2 Huayou Cobalt Single Crystal Medium-High Nickel NCM Ternary Precursor Product Portfolios and Specifications
- 13.3.3 Huayou Cobalt Single Crystal Medium-High Nickel NCM Ternary Precursor Sales, Revenue, Price and Gross Margin (2018-2023)
- 13.3.4 Huayou Cobalt Main Business Overview
- 13.3.5 Huayou Cobalt Latest Developments

13.4 CNGR Advanced Materials

- 13.4.1 CNGR Advanced Materials Company Information

13.4.2 CNGR Advanced Materials Single Crystal Medium-High Nickel NCM Ternary Precursor Product Portfolios and Specifications

13.4.3 CNGR Advanced Materials Single Crystal Medium-High Nickel NCM Ternary Precursor Sales, Revenue, Price and Gross Margin (2018-2023)

13.4.4 CNGR Advanced Materials Main Business Overview

13.4.5 CNGR Advanced Materials Latest Developments

13.5 Brunp

13.5.1 Brunp Company Information

13.5.2 Brunp Single Crystal Medium-High Nickel NCM Ternary Precursor Product Portfolios and Specifications

13.5.3 Brunp Single Crystal Medium-High Nickel NCM Ternary Precursor Sales, Revenue, Price and Gross Margin (2018-2023)

13.5.4 Brunp Main Business Overview

13.5.5 Brunp Latest Developments

13.6 Libode

13.6.1 Libode Company Information

13.6.2 Libode Single Crystal Medium-High Nickel NCM Ternary Precursor Product Portfolios and Specifications

13.6.3 Libode Single Crystal Medium-High Nickel NCM Ternary Precursor Sales, Revenue, Price and Gross Margin (2018-2023)

13.6.4 Libode Main Business Overview

13.6.5 Libode Latest Developments

13.7 Hunan Kingfuli New Energy

13.7.1 Hunan Kingfuli New Energy Company Information

13.7.2 Hunan Kingfuli New Energy Single Crystal Medium-High Nickel NCM Ternary Precursor Product Portfolios and Specifications

13.7.3 Hunan Kingfuli New Energy Single Crystal Medium-High Nickel NCM Ternary Precursor Sales, Revenue, Price and Gross Margin (2018-2023)

13.7.4 Hunan Kingfuli New Energy Main Business Overview

13.7.5 Hunan Kingfuli New Energy Latest Developments

13.8 Greatpower Technology

13.8.1 Greatpower Technology Company Information

13.8.2 Greatpower Technology Single Crystal Medium-High Nickel NCM Ternary Precursor Product Portfolios and Specifications

13.8.3 Greatpower Technology Single Crystal Medium-High Nickel NCM Ternary Precursor Sales, Revenue, Price and Gross Margin (2018-2023)

13.8.4 Greatpower Technology Main Business Overview

13.8.5 Greatpower Technology Latest Developments

13.9 JIANA ENERGY

13.9.1 JIANA ENERGY Company Information

13.9.2 JIANA ENERGY Single Crystal Medium-High Nickel NCM Ternary Precursor
Product Portfolios and Specifications

13.9.3 JIANA ENERGY Single Crystal Medium-High Nickel NCM Ternary Precursor
Sales, Revenue, Price and Gross Margin (2018-2023)

13.9.4 JIANA ENERGY Main Business Overview

13.9.5 JIANA ENERGY Latest Developments

14 RESEARCH FINDINGS AND CONCLUSION

List Of Tables

LIST OF TABLES

Table 1. Single Crystal Medium-High Nickel NCM Ternary Precursor Annual Sales CAGR by Geographic Region (2018, 2022 & 2029) & (\$ millions)

Table 2. Single Crystal Medium-High Nickel NCM Ternary Precursor Annual Sales CAGR by Country/Region (2018, 2022 & 2029) & (\$ millions)

Table 3. Major Players of NCM622

Table 4. Major Players of NCM811

Table 5. Global Single Crystal Medium-High Nickel NCM Ternary Precursor Sales by Type (2018-2023) & (Tons)

Table 6. Global Single Crystal Medium-High Nickel NCM Ternary Precursor Sales Market Share by Type (2018-2023)

Table 7. Global Single Crystal Medium-High Nickel NCM Ternary Precursor Revenue by Type (2018-2023) & (\$ million)

Table 8. Global Single Crystal Medium-High Nickel NCM Ternary Precursor Revenue Market Share by Type (2018-2023)

Table 9. Global Single Crystal Medium-High Nickel NCM Ternary Precursor Sale Price by Type (2018-2023) & (US\$/Ton)

Table 10. Global Single Crystal Medium-High Nickel NCM Ternary Precursor Sales by Application (2018-2023) & (Tons)

Table 11. Global Single Crystal Medium-High Nickel NCM Ternary Precursor Sales Market Share by Application (2018-2023)

Table 12. Global Single Crystal Medium-High Nickel NCM Ternary Precursor Revenue by Application (2018-2023)

Table 13. Global Single Crystal Medium-High Nickel NCM Ternary Precursor Revenue Market Share by Application (2018-2023)

Table 14. Global Single Crystal Medium-High Nickel NCM Ternary Precursor Sale Price by Application (2018-2023) & (US\$/Ton)

Table 15. Global Single Crystal Medium-High Nickel NCM Ternary Precursor Sales by Company (2018-2023) & (Tons)

Table 16. Global Single Crystal Medium-High Nickel NCM Ternary Precursor Sales Market Share by Company (2018-2023)

Table 17. Global Single Crystal Medium-High Nickel NCM Ternary Precursor Revenue by Company (2018-2023) (\$ Millions)

Table 18. Global Single Crystal Medium-High Nickel NCM Ternary Precursor Revenue Market Share by Company (2018-2023)

Table 19. Global Single Crystal Medium-High Nickel NCM Ternary Precursor Sale Price

by Company (2018-2023) & (US\$/Ton)

Table 20. Key Manufacturers Single Crystal Medium-High Nickel NCM Ternary Precursor Producing Area Distribution and Sales Area

Table 21. Players Single Crystal Medium-High Nickel NCM Ternary Precursor Products Offered

Table 22. Single Crystal Medium-High Nickel NCM Ternary Precursor Concentration Ratio (CR3, CR5 and CR10) & (2018-2023)

Table 23. New Products and Potential Entrants

Table 24. Mergers & Acquisitions, Expansion

Table 25. Global Single Crystal Medium-High Nickel NCM Ternary Precursor Sales by Geographic Region (2018-2023) & (Tons)

Table 26. Global Single Crystal Medium-High Nickel NCM Ternary Precursor Sales Market Share Geographic Region (2018-2023)

Table 27. Global Single Crystal Medium-High Nickel NCM Ternary Precursor Revenue by Geographic Region (2018-2023) & (\$ millions)

Table 28. Global Single Crystal Medium-High Nickel NCM Ternary Precursor Revenue Market Share by Geographic Region (2018-2023)

Table 29. Global Single Crystal Medium-High Nickel NCM Ternary Precursor Sales by Country/Region (2018-2023) & (Tons)

Table 30. Global Single Crystal Medium-High Nickel NCM Ternary Precursor Sales Market Share by Country/Region (2018-2023)

Table 31. Global Single Crystal Medium-High Nickel NCM Ternary Precursor Revenue by Country/Region (2018-2023) & (\$ millions)

Table 32. Global Single Crystal Medium-High Nickel NCM Ternary Precursor Revenue Market Share by Country/Region (2018-2023)

Table 33. Americas Single Crystal Medium-High Nickel NCM Ternary Precursor Sales by Country (2018-2023) & (Tons)

Table 34. Americas Single Crystal Medium-High Nickel NCM Ternary Precursor Sales Market Share by Country (2018-2023)

Table 35. Americas Single Crystal Medium-High Nickel NCM Ternary Precursor Revenue by Country (2018-2023) & (\$ Millions)

Table 36. Americas Single Crystal Medium-High Nickel NCM Ternary Precursor Revenue Market Share by Country (2018-2023)

Table 37. Americas Single Crystal Medium-High Nickel NCM Ternary Precursor Sales by Type (2018-2023) & (Tons)

Table 38. Americas Single Crystal Medium-High Nickel NCM Ternary Precursor Sales by Application (2018-2023) & (Tons)

Table 39. APAC Single Crystal Medium-High Nickel NCM Ternary Precursor Sales by Region (2018-2023) & (Tons)

Table 40. APAC Single Crystal Medium-High Nickel NCM Ternary Precursor Sales Market Share by Region (2018-2023)

Table 41. APAC Single Crystal Medium-High Nickel NCM Ternary Precursor Revenue by Region (2018-2023) & (\$ Millions)

Table 42. APAC Single Crystal Medium-High Nickel NCM Ternary Precursor Revenue Market Share by Region (2018-2023)

Table 43. APAC Single Crystal Medium-High Nickel NCM Ternary Precursor Sales by Type (2018-2023) & (Tons)

Table 44. APAC Single Crystal Medium-High Nickel NCM Ternary Precursor Sales by Application (2018-2023) & (Tons)

Table 45. Europe Single Crystal Medium-High Nickel NCM Ternary Precursor Sales by Country (2018-2023) & (Tons)

Table 46. Europe Single Crystal Medium-High Nickel NCM Ternary Precursor Sales Market Share by Country (2018-2023)

Table 47. Europe Single Crystal Medium-High Nickel NCM Ternary Precursor Revenue by Country (2018-2023) & (\$ Millions)

Table 48. Europe Single Crystal Medium-High Nickel NCM Ternary Precursor Revenue Market Share by Country (2018-2023)

Table 49. Europe Single Crystal Medium-High Nickel NCM Ternary Precursor Sales by Type (2018-2023) & (Tons)

Table 50. Europe Single Crystal Medium-High Nickel NCM Ternary Precursor Sales by Application (2018-2023) & (Tons)

Table 51. Middle East & Africa Single Crystal Medium-High Nickel NCM Ternary Precursor Sales by Country (2018-2023) & (Tons)

Table 52. Middle East & Africa Single Crystal Medium-High Nickel NCM Ternary Precursor Sales Market Share by Country (2018-2023)

Table 53. Middle East & Africa Single Crystal Medium-High Nickel NCM Ternary Precursor Revenue by Country (2018-2023) & (\$ Millions)

Table 54. Middle East & Africa Single Crystal Medium-High Nickel NCM Ternary Precursor Revenue Market Share by Country (2018-2023)

Table 55. Middle East & Africa Single Crystal Medium-High Nickel NCM Ternary Precursor Sales by Type (2018-2023) & (Tons)

Table 56. Middle East & Africa Single Crystal Medium-High Nickel NCM Ternary Precursor Sales by Application (2018-2023) & (Tons)

Table 57. Key Market Drivers & Growth Opportunities of Single Crystal Medium-High Nickel NCM Ternary Precursor

Table 58. Key Market Challenges & Risks of Single Crystal Medium-High Nickel NCM Ternary Precursor

Table 59. Key Industry Trends of Single Crystal Medium-High Nickel NCM Ternary

Precursor

Table 60. Single Crystal Medium-High Nickel NCM Ternary Precursor Raw Material

Table 61. Key Suppliers of Raw Materials

Table 62. Single Crystal Medium-High Nickel NCM Ternary Precursor Distributors List

Table 63. Single Crystal Medium-High Nickel NCM Ternary Precursor Customer List

Table 64. Global Single Crystal Medium-High Nickel NCM Ternary Precursor Sales Forecast by Region (2024-2029) & (Tons)

Table 65. Global Single Crystal Medium-High Nickel NCM Ternary Precursor Revenue Forecast by Region (2024-2029) & (\$ millions)

Table 66. Americas Single Crystal Medium-High Nickel NCM Ternary Precursor Sales Forecast by Country (2024-2029) & (Tons)

Table 67. Americas Single Crystal Medium-High Nickel NCM Ternary Precursor Revenue Forecast by Country (2024-2029) & (\$ millions)

Table 68. APAC Single Crystal Medium-High Nickel NCM Ternary Precursor Sales Forecast by Region (2024-2029) & (Tons)

Table 69. APAC Single Crystal Medium-High Nickel NCM Ternary Precursor Revenue Forecast by Region (2024-2029) & (\$ millions)

Table 70. Europe Single Crystal Medium-High Nickel NCM Ternary Precursor Sales Forecast by Country (2024-2029) & (Tons)

Table 71. Europe Single Crystal Medium-High Nickel NCM Ternary Precursor Revenue Forecast by Country (2024-2029) & (\$ millions)

Table 72. Middle East & Africa Single Crystal Medium-High Nickel NCM Ternary Precursor Sales Forecast by Country (2024-2029) & (Tons)

Table 73. Middle East & Africa Single Crystal Medium-High Nickel NCM Ternary Precursor Revenue Forecast by Country (2024-2029) & (\$ millions)

Table 74. Global Single Crystal Medium-High Nickel NCM Ternary Precursor Sales Forecast by Type (2024-2029) & (Tons)

Table 75. Global Single Crystal Medium-High Nickel NCM Ternary Precursor Revenue Forecast by Type (2024-2029) & (\$ Millions)

Table 76. Global Single Crystal Medium-High Nickel NCM Ternary Precursor Sales Forecast by Application (2024-2029) & (Tons)

Table 77. Global Single Crystal Medium-High Nickel NCM Ternary Precursor Revenue Forecast by Application (2024-2029) & (\$ Millions)

Table 78. Zhejiang Power New Energy Co., Ltd. Basic Information, Single Crystal Medium-High Nickel NCM Ternary Precursor Manufacturing Base, Sales Area and Its Competitors

Table 79. Zhejiang Power New Energy Co., Ltd. Single Crystal Medium-High Nickel NCM Ternary Precursor Product Portfolios and Specifications

Table 80. Zhejiang Power New Energy Co., Ltd. Single Crystal Medium-High Nickel

NCM Ternary Precursor Sales (Tons), Revenue (\$ Million), Price (US\$/Ton) and Gross Margin (2018-2023)

Table 81. Zhejiang Power New Energy Co., Ltd. Main Business

Table 82. Zhejiang Power New Energy Co., Ltd. Latest Developments

Table 83. GEM Basic Information, Single Crystal Medium-High Nickel NCM Ternary Precursor Manufacturing Base, Sales Area and Its Competitors

Table 84. GEM Single Crystal Medium-High Nickel NCM Ternary Precursor Product Portfolios and Specifications

Table 85. GEM Single Crystal Medium-High Nickel NCM Ternary Precursor Sales (Tons), Revenue (\$ Million), Price (US\$/Ton) and Gross Margin (2018-2023)

Table 86. GEM Main Business

Table 87. GEM Latest Developments

Table 88. Huayou Cobalt Basic Information, Single Crystal Medium-High Nickel NCM Ternary Precursor Manufacturing Base, Sales Area and Its Competitors

Table 89. Huayou Cobalt Single Crystal Medium-High Nickel NCM Ternary Precursor Product Portfolios and Specifications

Table 90. Huayou Cobalt Single Crystal Medium-High Nickel NCM Ternary Precursor Sales (Tons), Revenue (\$ Million), Price (US\$/Ton) and Gross Margin (2018-2023)

Table 91. Huayou Cobalt Main Business

Table 92. Huayou Cobalt Latest Developments

Table 93. CNGR Advanced Materials Basic Information, Single Crystal Medium-High Nickel NCM Ternary Precursor Manufacturing Base, Sales Area and Its Competitors

Table 94. CNGR Advanced Materials Single Crystal Medium-High Nickel NCM Ternary Precursor Product Portfolios and Specifications

Table 95. CNGR Advanced Materials Single Crystal Medium-High Nickel NCM Ternary Precursor Sales (Tons), Revenue (\$ Million), Price (US\$/Ton) and Gross Margin (2018-2023)

Table 96. CNGR Advanced Materials Main Business

Table 97. CNGR Advanced Materials Latest Developments

Table 98. Brunp Basic Information, Single Crystal Medium-High Nickel NCM Ternary Precursor Manufacturing Base, Sales Area and Its Competitors

Table 99. Brunp Single Crystal Medium-High Nickel NCM Ternary Precursor Product Portfolios and Specifications

Table 100. Brunp Single Crystal Medium-High Nickel NCM Ternary Precursor Sales (Tons), Revenue (\$ Million), Price (US\$/Ton) and Gross Margin (2018-2023)

Table 101. Brunp Main Business

Table 102. Brunp Latest Developments

Table 103. Libode Basic Information, Single Crystal Medium-High Nickel NCM Ternary Precursor Manufacturing Base, Sales Area and Its Competitors

Table 104. Libode Single Crystal Medium-High Nickel NCM Ternary Precursor Product Portfolios and Specifications

Table 105. Libode Single Crystal Medium-High Nickel NCM Ternary Precursor Sales (Tons), Revenue (\$ Million), Price (US\$/Ton) and Gross Margin (2018-2023)

Table 106. Libode Main Business

Table 107. Libode Latest Developments

Table 108. Hunan Kingfuli New Energy Basic Information, Single Crystal Medium-High Nickel NCM Ternary Precursor Manufacturing Base, Sales Area and Its Competitors

Table 109. Hunan Kingfuli New Energy Single Crystal Medium-High Nickel NCM Ternary Precursor Product Portfolios and Specifications

Table 110. Hunan Kingfuli New Energy Single Crystal Medium-High Nickel NCM Ternary Precursor Sales (Tons), Revenue (\$ Million), Price (US\$/Ton) and Gross Margin (2018-2023)

Table 111. Hunan Kingfuli New Energy Main Business

Table 112. Hunan Kingfuli New Energy Latest Developments

Table 113. Greatpower Technology Basic Information, Single Crystal Medium-High Nickel NCM Ternary Precursor Manufacturing Base, Sales Area and Its Competitors

Table 114. Greatpower Technology Single Crystal Medium-High Nickel NCM Ternary Precursor Product Portfolios and Specifications

Table 115. Greatpower Technology Single Crystal Medium-High Nickel NCM Ternary Precursor Sales (Tons), Revenue (\$ Million), Price (US\$/Ton) and Gross Margin (2018-2023)

Table 116. Greatpower Technology Main Business

Table 117. Greatpower Technology Latest Developments

Table 118. JIANA ENERGY Basic Information, Single Crystal Medium-High Nickel NCM Ternary Precursor Manufacturing Base, Sales Area and Its Competitors

Table 119. JIANA ENERGY Single Crystal Medium-High Nickel NCM Ternary Precursor Product Portfolios and Specifications

Table 120. JIANA ENERGY Single Crystal Medium-High Nickel NCM Ternary Precursor Sales (Tons), Revenue (\$ Million), Price (US\$/Ton) and Gross Margin (2018-2023)

Table 121. JIANA ENERGY Main Business

Table 122. JIANA ENERGY Latest Developments

List Of Figures

LIST OF FIGURES

Figure 1. Picture of Single Crystal Medium-High Nickel NCM Ternary Precursor

Figure 2. Single Crystal Medium-High Nickel NCM Ternary Precursor Report Years Considered

Figure 3. Research Objectives

Figure 4. Research Methodology

Figure 5. Research Process and Data Source

Figure 6. Global Single Crystal Medium-High Nickel NCM Ternary Precursor Sales Growth Rate 2018-2029 (Tons)

Figure 7. Global Single Crystal Medium-High Nickel NCM Ternary Precursor Revenue Growth Rate 2018-2029 (\$ Millions)

Figure 8. Single Crystal Medium-High Nickel NCM Ternary Precursor Sales by Region (2018, 2022 & 2029) & (\$ Millions)

Figure 9. Product Picture of NCM622

Figure 10. Product Picture of NCM811

Figure 11. Global Single Crystal Medium-High Nickel NCM Ternary Precursor Sales Market Share by Type in 2022

Figure 12. Global Single Crystal Medium-High Nickel NCM Ternary Precursor Revenue Market Share by Type (2018-2023)

Figure 13. Single Crystal Medium-High Nickel NCM Ternary Precursor Consumed in Automobile Industry

Figure 14. Global Single Crystal Medium-High Nickel NCM Ternary Precursor Market: Automobile Industry (2018-2023) & (Tons)

Figure 15. Single Crystal Medium-High Nickel NCM Ternary Precursor Consumed in Consumer Electronics Industry

Figure 16. Global Single Crystal Medium-High Nickel NCM Ternary Precursor Market: Consumer Electronics Industry (2018-2023) & (Tons)

Figure 17. Single Crystal Medium-High Nickel NCM Ternary Precursor Consumed in Energy Storage Industry

Figure 18. Global Single Crystal Medium-High Nickel NCM Ternary Precursor Market: Energy Storage Industry (2018-2023) & (Tons)

Figure 19. Single Crystal Medium-High Nickel NCM Ternary Precursor Consumed in Others

Figure 20. Global Single Crystal Medium-High Nickel NCM Ternary Precursor Market: Others (2018-2023) & (Tons)

Figure 21. Global Single Crystal Medium-High Nickel NCM Ternary Precursor Sales

Market Share by Application (2022)

Figure 22. Global Single Crystal Medium-High Nickel NCM Ternary Precursor Revenue Market Share by Application in 2022

Figure 23. Single Crystal Medium-High Nickel NCM Ternary Precursor Sales Market by Company in 2022 (Tons)

Figure 24. Global Single Crystal Medium-High Nickel NCM Ternary Precursor Sales Market Share by Company in 2022

Figure 25. Single Crystal Medium-High Nickel NCM Ternary Precursor Revenue Market by Company in 2022 (\$ Million)

Figure 26. Global Single Crystal Medium-High Nickel NCM Ternary Precursor Revenue Market Share by Company in 2022

Figure 27. Global Single Crystal Medium-High Nickel NCM Ternary Precursor Sales Market Share by Geographic Region (2018-2023)

Figure 28. Global Single Crystal Medium-High Nickel NCM Ternary Precursor Revenue Market Share by Geographic Region in 2022

Figure 29. Americas Single Crystal Medium-High Nickel NCM Ternary Precursor Sales 2018-2023 (Tons)

Figure 30. Americas Single Crystal Medium-High Nickel NCM Ternary Precursor Revenue 2018-2023 (\$ Millions)

Figure 31. APAC Single Crystal Medium-High Nickel NCM Ternary Precursor Sales 2018-2023 (Tons)

Figure 32. APAC Single Crystal Medium-High Nickel NCM Ternary Precursor Revenue 2018-2023 (\$ Millions)

Figure 33. Europe Single Crystal Medium-High Nickel NCM Ternary Precursor Sales 2018-2023 (Tons)

Figure 34. Europe Single Crystal Medium-High Nickel NCM Ternary Precursor Revenue 2018-2023 (\$ Millions)

Figure 35. Middle East & Africa Single Crystal Medium-High Nickel NCM Ternary Precursor Sales 2018-2023 (Tons)

Figure 36. Middle East & Africa Single Crystal Medium-High Nickel NCM Ternary Precursor Revenue 2018-2023 (\$ Millions)

Figure 37. Americas Single Crystal Medium-High Nickel NCM Ternary Precursor Sales Market Share by Country in 2022

Figure 38. Americas Single Crystal Medium-High Nickel NCM Ternary Precursor Revenue Market Share by Country in 2022

Figure 39. Americas Single Crystal Medium-High Nickel NCM Ternary Precursor Sales Market Share by Type (2018-2023)

Figure 40. Americas Single Crystal Medium-High Nickel NCM Ternary Precursor Sales Market Share by Application (2018-2023)

Figure 41. United States Single Crystal Medium-High Nickel NCM Ternary Precursor Revenue Growth 2018-2023 (\$ Millions)

Figure 42. Canada Single Crystal Medium-High Nickel NCM Ternary Precursor Revenue Growth 2018-2023 (\$ Millions)

Figure 43. Mexico Single Crystal Medium-High Nickel NCM Ternary Precursor Revenue Growth 2018-2023 (\$ Millions)

Figure 44. Brazil Single Crystal Medium-High Nickel NCM Ternary Precursor Revenue Growth 2018-2023 (\$ Millions)

Figure 45. APAC Single Crystal Medium-High Nickel NCM Ternary Precursor Sales Market Share by Region in 2022

Figure 46. APAC Single Crystal Medium-High Nickel NCM Ternary Precursor Revenue Market Share by Regions in 2022

Figure 47. APAC Single Crystal Medium-High Nickel NCM Ternary Precursor Sales Market Share by Type (2018-2023)

Figure 48. APAC Single Crystal Medium-High Nickel NCM Ternary Precursor Sales Market Share by Application (2018-2023)

Figure 49. China Single Crystal Medium-High Nickel NCM Ternary Precursor Revenue Growth 2018-2023 (\$ Millions)

Figure 50. Japan Single Crystal Medium-High Nickel NCM Ternary Precursor Revenue Growth 2018-2023 (\$ Millions)

Figure 51. South Korea Single Crystal Medium-High Nickel NCM Ternary Precursor Revenue Growth 2018-2023 (\$ Millions)

Figure 52. Southeast Asia Single Crystal Medium-High Nickel NCM Ternary Precursor Revenue Growth 2018-2023 (\$ Millions)

Figure 53. India Single Crystal Medium-High Nickel NCM Ternary Precursor Revenue Growth 2018-2023 (\$ Millions)

Figure 54. Australia Single Crystal Medium-High Nickel NCM Ternary Precursor Revenue Growth 2018-2023 (\$ Millions)

Figure 55. China Taiwan Single Crystal Medium-High Nickel NCM Ternary Precursor Revenue Growth 2018-2023 (\$ Millions)

Figure 56. Europe Single Crystal Medium-High Nickel NCM Ternary Precursor Sales Market Share by Country in 2022

Figure 57. Europe Single Crystal Medium-High Nickel NCM Ternary Precursor Revenue Market Share by Country in 2022

Figure 58. Europe Single Crystal Medium-High Nickel NCM Ternary Precursor Sales Market Share by Type (2018-2023)

Figure 59. Europe Single Crystal Medium-High Nickel NCM Ternary Precursor Sales Market Share by Application (2018-2023)

Figure 60. Germany Single Crystal Medium-High Nickel NCM Ternary Precursor

Revenue Growth 2018-2023 (\$ Millions)

Figure 61. France Single Crystal Medium-High Nickel NCM Ternary Precursor Revenue Growth 2018-2023 (\$ Millions)

Figure 62. UK Single Crystal Medium-High Nickel NCM Ternary Precursor Revenue Growth 2018-2023 (\$ Millions)

Figure 63. Italy Single Crystal Medium-High Nickel NCM Ternary Precursor Revenue Growth 2018-2023 (\$ Millions)

Figure 64. Russia Single Crystal Medium-High Nickel NCM Ternary Precursor Revenue Growth 2018-2023 (\$ Millions)

Figure 65. Middle East & Africa Single Crystal Medium-High Nickel NCM Ternary Precursor Sales Market Share by Country in 2022

Figure 66. Middle East & Africa Single Crystal Medium-High Nickel NCM Ternary Precursor Revenue Market Share by Country in 2022

Figure 67. Middle East & Africa Single Crystal Medium-High Nickel NCM Ternary Precursor Sales Market Share by Type (2018-2023)

Figure 68. Middle East & Africa Single Crystal Medium-High Nickel NCM Ternary Precursor Sales Market Share by Application (2018-2023)

Figure 69. Egypt Single Crystal Medium-High Nickel NCM Ternary Precursor Revenue Growth 2018-2023 (\$ Millions)

Figure 70. South Africa Single Crystal Medium-High Nickel NCM Ternary Precursor Revenue Growth 2018-2023 (\$ Millions)

Figure 71. Israel Single Crystal Medium-High Nickel NCM Ternary Precursor Revenue Growth 2018-2023 (\$ Millions)

Figure 72. Turkey Single Crystal Medium-High Nickel NCM Ternary Precursor Revenue Growth 2018-2023 (\$ Millions)

Figure 73. GCC Country Single Crystal Medium-High Nickel NCM Ternary Precursor Revenue Growth 2018-2023 (\$ Millions)

Figure 74. Manufacturing Cost Structure Analysis of Single Crystal Medium-High Nickel NCM Ternary Precursor in 2022

Figure 75. Manufacturing Process Analysis of Single Crystal Medium-High Nickel NCM Ternary Precursor

Figure 76. Industry Chain Structure of Single Crystal Medium-High Nickel NCM Ternary Precursor

Figure 77. Channels of Distribution

Figure 78. Global Single Crystal Medium-High Nickel NCM Ternary Precursor Sales Market Forecast by Region (2024-2029)

Figure 79. Global Single Crystal Medium-High Nickel NCM Ternary Precursor Revenue Market Share Forecast by Region (2024-2029)

Figure 80. Global Single Crystal Medium-High Nickel NCM Ternary Precursor Sales

Market Share Forecast by Type (2024-2029)

Figure 81. Global Single Crystal Medium-High Nickel NCM Ternary Precursor Revenue

Market Share Forecast by Type (2024-2029)

Figure 82. Global Single Crystal Medium-High Nickel NCM Ternary Precursor Sales

Market Share Forecast by Application (2024-2029)

Figure 83. Global Single Crystal Medium-High Nickel NCM Ternary Precursor Revenue

Market Share Forecast by Application (2024-2029)

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