

Global NCA Ternary Material Supply, Demand and Key Producers, 2026-2032

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Abstracts

The global NCA Ternary Material market size is expected to reach \$ 14905 million by 2032, rising at a market growth of 7.9% CAGR during the forecast period (2026-2032).

Nickel cobalt aluminum ternary material (NCA) is a type of ternary polymer lithium battery, and its positive electrode material is composed of three metal elements: nickel (Ni), cobalt (Co), and aluminum (Al). The molecular formula can be expressed as $\text{Li}(\text{Ni}_x\text{Co}_y\text{Al}_z)\text{O}_2$. This material aims to improve the stability of the lattice structure and reduce collapse by doping aluminum elements into the layered structure, thereby enhancing the cycling stability of the battery. Compared to the nickel cobalt manganese (NCM) route, NCA has significant advantages in improving range due to its high energy density characteristics, represented by products such as the batteries provided by Panasonic for Tesla. In 2025, global NCA Ternary Material production reached approximately 484 K MT, with an average global market price of around US\$ 17.54 per kg.

Currently, NCA is regarded as one of the key technological routes for the development of high nickel power batteries, and it is also an important choice for achieving the energy density target of single cells above 300Wh/kg. Despite factors such as high cobalt prices and production difficulties (such as strict requirements for moisture control), domestic companies have traditionally focused on the NCM route. However, leading manufacturers are accelerating the development and production capacity layout of NCA. Benefiting from the continuous driving force of global demand for new energy vehicles and energy storage, the penetration rate of high nickel materials market continues to increase, and the industry presents a structural differentiation feature of strong demand for high-end production capacity and accelerated clearance of low-end production capacity.

This report studies the global NCA Ternary Material production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for NCA Ternary Material 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 NCA Ternary Material that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global NCA Ternary Material total production and demand, 2021-2032, (Kilotons)

Global NCA Ternary Material total production value, 2021-2032, (USD Million)

Global NCA Ternary Material production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Kilotons), (based on production site)

Global NCA Ternary Material consumption by region & country, CAGR, 2021-2032 & (Kilotons)

U.S. VS China: NCA Ternary Material domestic production, consumption, key domestic manufacturers and share

Global NCA Ternary Material production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Kilotons)

Global NCA Ternary Material production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Kilotons)

Global NCA Ternary Material production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Kilotons)

This report profiles key players in the global NCA Ternary Material market based on the following parameters - company overview, production, value, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include GEM, CNGR Advanced Material, Guangdong Brunp Recycling Technology, Henan Kelong New Energy, Huayou Cobalt, Sumitomo Metal Mining, Guangdong Fangyuan New Materials Group, Minmetals New Energy Materials, Wuhu Jiana Energy Technology, Jinchuan Group, 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 NCA Ternary Material market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (Kilotons) and average price (US\$/Ton) by manufacturer, 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 NCA Ternary Material Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global NCA Ternary Material Market, Segmentation by Type:

Particle Size

Contents

1 SUPPLY SUMMARY

- 1.1 NCA Ternary Material Introduction
- 1.2 World NCA Ternary Material Supply & Forecast
 - 1.2.1 World NCA Ternary Material Production Value (2021 & 2025 & 2032)
 - 1.2.2 World NCA Ternary Material Production (2021-2032)
 - 1.2.3 World NCA Ternary Material Pricing Trends (2021-2032)
- 1.3 World NCA Ternary Material Production by Region (Based on Production Site)
 - 1.3.1 World NCA Ternary Material Production Value by Region (2021-2032)
 - 1.3.2 World NCA Ternary Material Production by Region (2021-2032)
 - 1.3.3 World NCA Ternary Material Average Price by Region (2021-2032)
 - 1.3.4 North America NCA Ternary Material Production (2021-2032)
 - 1.3.5 Europe NCA Ternary Material Production (2021-2032)
 - 1.3.6 China NCA Ternary Material Production (2021-2032)
 - 1.3.7 Japan NCA Ternary Material Production (2021-2032)
- 1.4 Market Drivers, Restraints and Trends
 - 1.4.1 NCA Ternary Material Market Drivers
 - 1.4.2 Factors Affecting Demand
 - 1.4.3 NCA Ternary Material Major Market Trends

2 DEMAND SUMMARY

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

3 WORLD MANUFACTURERS COMPETITIVE ANALYSIS

- 3.1 World NCA Ternary Material Production Value by Manufacturer (2021-2026)

- 3.2 World NCA Ternary Material Production by Manufacturer (2021-2026)
- 3.3 World NCA Ternary Material Average Price by Manufacturer (2021-2026)
- 3.4 NCA Ternary Material Company Evaluation Quadrant
- 3.5 Industry Rank and Concentration Rate (CR)
 - 3.5.1 Global NCA Ternary Material Industry Rank of Major Manufacturers
 - 3.5.2 Global Concentration Ratios (CR4) for NCA Ternary Material in 2025
 - 3.5.3 Global Concentration Ratios (CR8) for NCA Ternary Material in 2025
- 3.6 NCA Ternary Material Market: Overall Company Footprint Analysis
 - 3.6.1 NCA Ternary Material Market: Region Footprint
 - 3.6.2 NCA Ternary Material Market: Company Product Type Footprint
 - 3.6.3 NCA Ternary Material Market: Company Product Application Footprint
- 3.7 Competitive Environment
 - 3.7.1 Historical Structure of the Industry
 - 3.7.2 Barriers of Market Entry
 - 3.7.3 Factors of Competition
- 3.8 New Entrant and Capacity Expansion Plans
- 3.9 Mergers, Acquisition, Agreements, and Collaborations

4 UNITED STATES VS CHINA VS REST OF THE WORLD

- 4.1 United States VS China: NCA Ternary Material Production Value Comparison
 - 4.1.1 United States VS China: NCA Ternary Material Production Value Comparison (2021 & 2025 & 2032)
 - 4.1.2 United States VS China: NCA Ternary Material Production Value Market Share Comparison (2021 & 2025 & 2032)
- 4.2 United States VS China: NCA Ternary Material Production Comparison
 - 4.2.1 United States VS China: NCA Ternary Material Production Comparison (2021 & 2025 & 2032)
 - 4.2.2 United States VS China: NCA Ternary Material Production Market Share Comparison (2021 & 2025 & 2032)
- 4.3 United States VS China: NCA Ternary Material Consumption Comparison
 - 4.3.1 United States VS China: NCA Ternary Material Consumption Comparison (2021 & 2025 & 2032)
 - 4.3.2 United States VS China: NCA Ternary Material Consumption Market Share Comparison (2021 & 2025 & 2032)
- 4.4 United States Based NCA Ternary Material Manufacturers and Market Share, 2021-2026
 - 4.4.1 United States Based NCA Ternary Material Manufacturers, Headquarters and Production Site (States, Country)

4.4.2 United States Based Manufacturers NCA Ternary Material Production Value (2021-2026)

4.4.3 United States Based Manufacturers NCA Ternary Material Production (2021-2026)

4.5 China Based NCA Ternary Material Manufacturers and Market Share

4.5.1 China Based NCA Ternary Material Manufacturers, Headquarters and Production Site (Province, Country)

4.5.2 China Based Manufacturers NCA Ternary Material Production Value (2021-2026)

4.5.3 China Based Manufacturers NCA Ternary Material Production (2021-2026)

4.6 Rest of World Based NCA Ternary Material Manufacturers and Market Share, 2021-2026

4.6.1 Rest of World Based NCA Ternary Material Manufacturers, Headquarters and Production Site (State, Country)

4.6.2 Rest of World Based Manufacturers NCA Ternary Material Production Value (2021-2026)

4.6.3 Rest of World Based Manufacturers NCA Ternary Material Production (2021-2026)

5 MARKET ANALYSIS BY TYPE

5.1 World NCA Ternary Material Market Size Overview by Type: 2021 VS 2025 VS 2032

5.2 Segment Introduction by Type

5.2.1 Particle Size

List Of Tables

LIST OF TABLES

Table 1. World NCA Ternary Material Production Value by Region (2021, 2025 and 2032) & (USD Million)

Table 2. World NCA Ternary Material Production Value by Region (2021-2026) & (USD Million)

Table 3. World NCA Ternary Material Production Value by Region (2027-2032) & (USD Million)

Table 4. World NCA Ternary Material Production Value Market Share by Region (2021-2026)

Table 5. World NCA Ternary Material Production Value Market Share by Region (2027-2032)

Table 6. World NCA Ternary Material Production by Region (2021-2026) & (Kilotons)

Table 7. World NCA Ternary Material Production by Region (2027-2032) & (Kilotons)

Table 8. World NCA Ternary Material Production Market Share by Region (2021-2026)

Table 9. World NCA Ternary Material Production Market Share by Region (2027-2032)

Table 10. World NCA Ternary Material Average Price by Region (2021-2026) & (US\$/Ton)

Table 11. World NCA Ternary Material Average Price by Region (2027-2032) & (US\$/Ton)

Table 12. NCA Ternary Material Major Market Trends

Table 13. World NCA Ternary Material Consumption Growth Rate Forecast by Region (2021 & 2025 & 2032) & (Kilotons)

Table 14. World NCA Ternary Material Consumption by Region (2021-2026) & (Kilotons)

Table 15. World NCA Ternary Material Consumption Forecast by Region (2027-2032) & (Kilotons)

Table 16. World NCA Ternary Material Production Value by Manufacturer (2021-2026) & (USD Million)

Table 17. Production Value Market Share of Key NCA Ternary Material Producers in 2025

Table 18. World NCA Ternary Material Production by Manufacturer (2021-2026) & (Kilotons)

Table 19. Production Market Share of Key NCA Ternary Material Producers in 2025

Table 20. World NCA Ternary Material Average Price by Manufacturer (2021-2026) & (US\$/Ton)

Table 21. Global NCA Ternary Material Company Evaluation Quadrant

Table 22. World NCA Ternary Material Industry Rank of Major Manufacturers, Based on Production Value in 2025

Table 23. Head Office and NCA Ternary Material Production Site of Key Manufacturer

Table 24. NCA Ternary Material Market: Company Product Type Footprint

Table 25. NCA Ternary Material Market: Company Product Application Footprint

Table 26. NCA Ternary Material Competitive Factors

Table 27. NCA Ternary Material New Entrant and Capacity Expansion Plans

Table 28. NCA Ternary Material Mergers & Acquisitions Activity

Table 29. United States VS China NCA Ternary Material Production Value Comparison, (2021 & 2025 & 2032) & (USD Million)

Table 30. United States VS China NCA Ternary Material Production Comparison, (2021 & 2025 & 2032) & (Kilotons)

Table 31. United States VS China NCA Ternary Material Consumption Comparison, (2021 & 2025 & 2032) & (Kilotons)

Table 32. United States Based NCA Ternary Material Manufacturers, Headquarters and Production Site (States, Country)

Table 33. United States Based Manufacturers NCA Ternary Material Production Value, (2021-2026) & (USD Million)

Table 34. United States Based Manufacturers NCA Ternary Material Production Value Market Share (2021-2026)

Table 35. United States Based Manufacturers NCA Ternary Material Production (2021-2026) & (Kilotons)

Table 36. United States Based Manufacturers NCA Ternary Material Production Market Share (2021-2026)

Table 37. China Based NCA Ternary Material Manufacturers, Headquarters and Production Site (Province, Country)

Table 38. China Based Manufacturers NCA Ternary Material Production Value, (2021-2026) & (USD Million)

Table 39. China Based Manufacturers NCA Ternary Material Production Value Market Share (2021-2026)

Table 40. China Based Manufacturers NCA Ternary Material Production, (2021-2026) & (Kilotons)

Table 41. China Based Manufacturers NCA Ternary Material Production Market Share (2021-2026)

Table 42. Rest of World Based NCA Ternary Material Manufacturers, Headquarters and Production Site (State, Country)

Table 43. Rest of World Based Manufacturers NCA Ternary Material Production Value, (2021-2026) & (USD Million)

Table 44. Rest of World Based Manufacturers NCA Ternary Material Production Value

Market Share (2021-2026)

Table 45. Rest of World Based Manufacturers NCA Ternary Material Production, (2021-2026) & (Kilotons)

Table 46. Rest of World Based Manufacturers NCA Ternary Material Production Market Share (2021-2026)

Table 47. World NCA Ternary Material Production Value by Type, (USD Million), 2021 & 2025 & 2032

Table 48. World NCA Ternary Material Production by Type (2021-2026) & (Kilotons)

Table 49. World NCA Ternary Material Production by Type (2027-2032) & (Kilotons)

Table 50. World NCA Ternary Material Production Value by Type (2021-2026) & (USD Million)

Table 51. World NCA Ternary Material Production Value by Type (2027-2032) & (USD Million)

Table 52. World NCA Ternary Material Average Price by Type (2021-2026) & (US\$/Ton)

Table 53. World NCA Ternary Material Average Price by Type (2027-2032) & (US\$/Ton)

Table 54. World NCA Ternary Material Production Value by Nickel Content, (USD Million), 2021 & 2025 & 2032

Table 55. World NCA Ternary Material Production by Nickel Content (2021-2026) & (Kilotons)

Table 56. World NCA Ternary Material Production by Nickel Content (2027-2032) & (Kilotons)

Table 57. World NCA Ternary Material Production Value by Nickel Content (2021-2026) & (USD Million)

Table 58. World NCA Ternary Material Production Value by Nickel Content (2027-2032) & (USD Million)

Table 59. World NCA Ternary Material Average Price by Nickel Content (2021-2026) & (US\$/Ton)

Table 60. World NCA Ternary Material Average Price by Nickel Content (2027-2032) & (US\$/Ton)

Table 61. World NCA Ternary Material Production Value by Application, (USD Million), 2021 & 2025 & 2032

Table 62. World NCA Ternary Material Production by Application (2021-2026) & (Kilotons)

Table 63. World NCA Ternary Material Production by Application (2027-2032) & (Kilotons)

Table 64. World NCA Ternary Material Production Value by Application (2021-2026) & (USD Million)

Table 65. World NCA Ternary Material Production Value by Application (2027-2032) & (USD Million)

Table 66. World NCA Ternary Material Average Price by Application (2021-2026) & (US\$/Ton)

Table 67. World NCA Ternary Material Average Price by Application (2027-2032) & (US\$/Ton)

Table 68. GEM Basic Information, Manufacturing Base and Competitors

Table 69. GEM Major Business

Table 70. GEM NCA Ternary Material Product and Services

Table 71. GEM NCA Ternary Material Production (Kilotons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 72. GEM Recent Developments/Updates

Table 73. GEM Competitive Strengths & Weaknesses

Table 74. CNGR Advanced Material Basic Information, Manufacturing Base and Competitors

Table 75. CNGR Advanced Material Major Business

Table 76. CNGR Advanced Material NCA Ternary Material Product and Services

Table 77. CNGR Advanced Material NCA Ternary Material Production (Kilotons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 78. CNGR Advanced Material Recent Developments/Updates

Table 79. CNGR Advanced Material Competitive Strengths & Weaknesses

Table 80. Guangdong Brunp Recycling Technology Basic Information, Manufacturing Base and Competitors

Table 81. Guangdong Brunp Recycling Technology Major Business

Table 82. Guangdong Brunp Recycling Technology NCA Ternary Material Product and Services

Table 83. Guangdong Brunp Recycling Technology NCA Ternary Material Production (Kilotons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 84. Guangdong Brunp Recycling Technology Recent Developments/Updates

Table 85. Guangdong Brunp Recycling Technology Competitive Strengths & Weaknesses

Table 86. Henan Kelong New Energy Basic Information, Manufacturing Base and Competitors

Table 87. Henan Kelong New Energy Major Business

Table 88. Henan Kelong New Energy NCA Ternary Material Product and Services

Table 89. Henan Kelong New Energy NCA Ternary Material Production (Kilotons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 90. Henan Kelong New Energy Recent Developments/Updates

- Table 91. Henan Kelong New Energy Competitive Strengths & Weaknesses
- Table 92. Huayou Cobalt Basic Information, Manufacturing Base and Competitors
- Table 93. Huayou Cobalt Major Business
- Table 94. Huayou Cobalt NCA Ternary Material Product and Services
- Table 95. Huayou Cobalt NCA Ternary Material Production (Kilotons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 96. Huayou Cobalt Recent Developments/Updates
- Table 97. Huayou Cobalt Competitive Strengths & Weaknesses
- Table 98. Sumitomo Metal Mining Basic Information, Manufacturing Base and Competitors
- Table 99. Sumitomo Metal Mining Major Business
- Table 100. Sumitomo Metal Mining NCA Ternary Material Product and Services
- Table 101. Sumitomo Metal Mining NCA Ternary Material Production (Kilotons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 102. Sumitomo Metal Mining Recent Developments/Updates
- Table 103. Sumitomo Metal Mining Competitive Strengths & Weaknesses
- Table 104. Guangdong Fangyuan New Materials Group Basic Information, Manufacturing Base and Competitors
- Table 105. Guangdong Fangyuan New Materials Group Major Business
- Table 106. Guangdong Fangyuan New Materials Group NCA Ternary Material Product and Services
- Table 107. Guangdong Fangyuan New Materials Group NCA Ternary Material Production (Kilotons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 108. Guangdong Fangyuan New Materials Group Recent Developments/Updates
- Table 109. Guangdong Fangyuan New Materials Group Competitive Strengths & Weaknesses
- Table 110. Minmetals New Energy Materials Basic Information, Manufacturing Base and Competitors
- Table 111. Minmetals New Energy Materials Major Business
- Table 112. Minmetals New Energy Materials NCA Ternary Material Product and Services
- Table 113. Minmetals New Energy Materials NCA Ternary Material Production (Kilotons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)
- Table 114. Minmetals New Energy Materials Recent Developments/Updates
- Table 115. Minmetals New Energy Materials Competitive Strengths & Weaknesses
- Table 116. Wuhu Jiana Energy Technology Basic Information, Manufacturing Base and

Competitors

Table 117. Wuhu Jiana Energy Technology Major Business

Table 118. Wuhu Jiana Energy Technology NCA Ternary Material Product and Services

Table 119. Wuhu Jiana Energy Technology NCA Ternary Material Production (Kilotons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 120. Wuhu Jiana Energy Technology Recent Developments/Updates

Table 121. Wuhu Jiana Energy Technology Competitive Strengths & Weaknesses

Table 122. Jinchuan Group Basic Information, Manufacturing Base and Competitors

Table 123. Jinchuan Group Major Business

Table 124. Jinchuan Group NCA Ternary Material Product and Services

Table 125. Jinchuan Group NCA Ternary Material Production (Kilotons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 126. Jinchuan Group Recent Developments/Updates

Table 127. Jinchuan Group Competitive Strengths & Weaknesses

Table 128. Zhajiang Hitrans Lithium Battery Technology Basic Information, Manufacturing Base and Competitors

Table 129. Zhajiang Hitrans Lithium Battery Technology Major Business

Table 130. Zhajiang Hitrans Lithium Battery Technology NCA Ternary Material Product and Services

Table 131. Zhajiang Hitrans Lithium Battery Technology NCA Ternary Material Production (Kilotons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 132. Zhajiang Hitrans Lithium Battery Technology Recent Developments/Updates

Table 133. Zhajiang Hitrans Lithium Battery Technology Competitive Strengths & Weaknesses

Table 134. Jiecheng New Energy Company Basic Information, Manufacturing Base and Competitors

Table 135. Jiecheng New Energy Company Major Business

Table 136. Jiecheng New Energy Company NCA Ternary Material Product and Services

Table 137. Jiecheng New Energy Company NCA Ternary Material Production (Kilotons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 138. Jiecheng New Energy Company Recent Developments/Updates

Table 139. Jiecheng New Energy Company Competitive Strengths & Weaknesses

Table 140. ECOPRO Basic Information, Manufacturing Base and Competitors

Table 141. ECOPRO Major Business

Table 142. ECOPRO NCA Ternary Material Product and Services

Table 143. ECOPRO NCA Ternary Material Production (Kilotons), Price (US\$/Ton), Production Value (USD Million), Gross Margin and Market Share (2021-2026)

Table 144. ECOPRO Recent Developments/Updates

Table 145. ECOPRO Competitive Strengths & Weaknesses

Table 146. Global Key Players of NCA Ternary Material Upstream (Raw Materials)

Table 147. Global NCA Ternary Material Typical Customers

Table 148. NCA Ternary Material Typical Distributors

List Of Figures

LIST OF FIGURES

Figure 1. NCA Ternary Material Picture

Figure 2. World NCA Ternary Material Production Value: 2021 & 2025 & 2032, (USD Million)

Figure 3. World NCA Ternary Material Production Value and Forecast (2021-2032) & (USD Million)

Figure 4. World NCA Ternary Material Production (2021-2032) & (Kilotons)

Figure 5. World NCA Ternary Material Average Price (2021-2032) & (US\$/Ton)

Figure 6. World NCA Ternary Material Production Value Market Share by Region (2021-2032)

Figure 7. World NCA Ternary Material Production Market Share by Region (2021-2032)

Figure 8. North America NCA Ternary Material Production (2021-2032) & (Kilotons)

Figure 9. Europe NCA Ternary Material Production (2021-2032) & (Kilotons)

Figure 10. China NCA Ternary Material Production (2021-2032) & (Kilotons)

Figure 11. Japan NCA Ternary Material Production (2021-2032) & (Kilotons)

Figure 12. NCA Ternary Material Market Drivers

Figure 13. Factors Affecting Demand

Figure 14. World NCA Ternary Material Consumption (2021-2032) & (Kilotons)

Figure 15. World NCA Ternary Material Consumption Market Share by Region (2021-2032)

Figure 16. United States NCA Ternary Material Consumption (2021-2032) & (Kilotons)

Figure 17. China NCA Ternary Material Consumption (2021-2032) & (Kilotons)

Figure 18. Europe NCA Ternary Material Consumption (2021-2032) & (Kilotons)

Figure 19. Japan NCA Ternary Material Consumption (2021-2032) & (Kilotons)

Figure 20. South Korea NCA Ternary Material Consumption (2021-2032) & (Kilotons)

Figure 21. ASEAN NCA Ternary Material Consumption (2021-2032) & (Kilotons)

Figure 22. India NCA Ternary Material Consumption (2021-2032) & (Kilotons)

Figure 23. Producer Shipments of NCA Ternary Material by Manufacturer Revenue (\$MM) and Market Share (%): 2025

Figure 24. Global Four-firm Concentration Ratios (CR4) for NCA Ternary Material Markets in 2025

Figure 25. Global Four-firm Concentration Ratios (CR8) for NCA Ternary Material Markets in 2025

Figure 26. United States VS China: NCA Ternary Material Production Value Market Share Comparison (2021 & 2025 & 2032)

Figure 27. United States VS China: NCA Ternary Material Production Market Share

Comparison (2021 & 2025 & 2032)

Figure 28. United States VS China: NCA Ternary Material Consumption Market Share Comparison (2021 & 2025 & 2032)

Figure 29. United States Based Manufacturers NCA Ternary Material Production Market Share 2025

Figure 30. China Based Manufacturers NCA Ternary Material Production Market Share 2025

Figure 31. Rest of World Based Manufacturers NCA Ternary Material Production Market Share 2025

Figure 32. World NCA Ternary Material Production Value by Type, (USD Million), 2021 & 2025 & 2032

Figure 33. World NCA Ternary Material Production Value Market Share by Type in 2025

Figure 34. Particle Size

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