

Global Dry Electrode Process Market 2026 by Company, Regions, Type and Application, Forecast to 2032

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Abstracts

According to our (Global Info Research) latest study, the global Dry Electrode Process market size was valued at US\$ 1516 million in 2025 and is forecast to a readjusted size of US\$ 5219 million by 2032 with a CAGR of 19.2% during review period.

Dry electrode process is an advanced lithium-ion battery electrode fabrication technology. It does not use liquid solvents such as NMP during manufacturing. Instead, it involves dry-mixing active materials, conductive agents, and binders (such as PTFE), followed by shearing and fibrillation to directly press them into a self-supporting thin film, which is then laminated with a current collector. Its core advantages lie in eliminating the drying process, significantly reducing costs, saving space, being environmentally friendly, and increasing energy density.

Upstream of the dry electrode process includes cathode and anode active materials (such as high-nickel ternary materials, lithium iron phosphate and silicon-based anodes), conductive additives (carbon black, carbon nanotubes and graphene), specialized dry-process binders (commonly PTFE-based polymers) and aluminum and copper current collectors. On the equipment side, key systems include high-shear mixing units, fibrillation equipment, dry film forming machines and precision calendaring systems. Compared with wet processing, the dry method imposes higher requirements on binder fibrillation control, particle size compatibility and dispersion uniformity, making equipment precision and material formulation critical cost and performance factors.

In terms of process flow, active materials, conductive agents and binders are subjected to high-energy mechanical mixing, during which PTFE forms a fibrillated network structure under shear forces. This fibrous network physically entangles particles to

generate a cohesive electrode film without solvent evaporation. The film is subsequently pressed onto the current collector. Because there is no drying stage, production time and energy use are substantially reduced, and solvent recovery systems are no longer required.

Compared with traditional wet coating technology, the dry electrode process offers potential advantages in lowering manufacturing costs, reducing carbon emissions, enabling thicker electrode designs and increasing energy density. It supports higher areal loading and thick electrode structures, which can enhance cell-level energy density and simplify manufacturing flow. However, technical challenges remain in ensuring uniform material distribution, strong interfacial adhesion, stable conductive networks and consistent large-scale production yield.

Industry trends indicate that as the battery sector pushes toward higher energy density and lower cost per kWh, the dry electrode process is transitioning from pilot validation to industrialization. It is particularly promising for high-nickel cathode systems and silicon-rich anodes. Equipment manufacturers are accelerating development of continuous dry film forming and high-speed calendaring technologies, while material suppliers are optimizing binder and conductive formulations tailored to solvent-free systems. Although initial capital expenditure and process tuning costs are relatively high, successful scale-up could significantly improve gross margins by reducing solvent, energy and facility costs. Over the long term, the dry electrode process is considered one of the key technological upgrade paths in next-generation lithium-ion battery manufacturing.

This report is a detailed and comprehensive analysis for global Dry Electrode Process market. Both quantitative and qualitative analyses are presented by company, by region & country, by Film Formation Method and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market share estimates of some of the selected leaders for the year 2025, are provided.

Key Features:

Global Dry Electrode Process market size and forecasts, in consumption value (\$ Million), 2021-2032

Global Dry Electrode Process market size and forecasts by region and country, in consumption value (\$ Million), 2021-2032

Global Dry Electrode Process market size and forecasts, by Film Formation Method and by Application, in consumption value (\$ Million), 2021-2032

Global Dry Electrode Process market shares of main players, in revenue (\$ Million), 2021-2026

The Primary Objectives in This Report Are:

To determine the size of the total market opportunity of global and key countries

To assess the growth potential for Dry Electrode Process

To forecast future growth in each product and end-use market

To assess competitive factors affecting the marketplace

This report profiles key players in the global Dry Electrode Process 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 Tesla, LG Energy Solution, CATL, BYD, Samsung SDI, Panasonic, EVE Energy, Gotion, Hongmumian, SK On, etc.

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

Market segmentation

Dry Electrode Process market is split by Film Formation Method and by Application. For the period 2021-2032, the growth among segments provides accurate calculations and forecasts for Consumption Value by Film Formation Method and by Application. This analysis can help you expand your business by targeting qualified niche markets.

Market segment by Film Formation Method

Dry Roll Forming

Dry Spray Deposition

3D Printing

Extrusion Molding

Market segment by Adhesive Mechanism

PTFE Fibrillation

Thermoplastic Adhesive

Adhesive-free

Market segment by Electrode Target

Dry Cathode

Dry Anode

Hybrid

Market segment by Application

Power Batteries

Energy Storage Batteries

Solid-state Batteries

Supercapacitors

Market segment by players, this report covers

Tesla

LG Energy Solution

CATL

BYD

Samsung SDI

Panasonic

EVE Energy

Gotion

Hongmumian

SK On

Sakuu

Tsingyane Electronics

LiCAP Technologies

AM Battery

Anaphite

Ateios Systems

Intecells

Dragonfly Energy

Coperion

Market segment by regions, regional analysis covers

North America (United States, Canada and Mexico)

Europe (Germany, France, UK, Russia, Italy and Rest of Europe)

Asia-Pacific (China, Japan, South Korea, India, Southeast Asia and Rest of Asia-Pacific)

South America (Brazil, Rest of South America)

Middle East & Africa (Turkey, Saudi Arabia, UAE, Rest of Middle East & Africa)

The content of the study subjects, includes a total of 13 chapters:

Chapter 1, to describe Dry Electrode Process product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top players of Dry Electrode Process, with revenue, gross margin, and global market share of Dry Electrode Process from 2021 to 2026.

Chapter 3, the Dry Electrode Process competitive situation, revenue, and global market share of top players are analyzed emphatically by landscape contrast.

Chapter 4 and 5, to segment the market size by Film Formation Method and by Application, with consumption value and growth rate by Film Formation Method, by Application, from 2021 to 2032.

Chapter 6, 7, 8, 9, and 10, to break the market size data at the country level, with revenue and market share for key countries in the world, from 2021 to 2026. and Dry Electrode Process market forecast, by regions, by Film Formation Method and by Application, with consumption value, from 2027 to 2032.

Chapter 11, market dynamics, drivers, restraints, trends, Porters Five Forces analysis.

Chapter 12, the key raw materials and key suppliers, and industry chain of Dry Electrode Process.

Chapter 13, to describe Dry Electrode Process research findings and conclusion.

Contents

1 MARKET OVERVIEW

1.1 Product Overview and Scope

1.2 Market Estimation Caveats and Base Year

1.3 Classification of Dry Electrode Process by Film Formation Method

1.3.1 Overview: Global Dry Electrode Process Market Size by Film Formation Method: 2021 Versus 2025 Versus 2032

1.3.2 Global Dry Electrode Process Consumption Value Market Share by Film Formation Method in 2025

1.3.3 Dry Roll Forming

1.3.4 Dry Spray Deposition

1.3.5 3D Printing

1.3.6 Extrusion Molding

1.4 Classification of Dry Electrode Process by Adhesive Mechanism

1.4.1 Overview: Global Dry Electrode Process Market Size by Adhesive Mechanism: 2021 Versus 2025 Versus 2032

1.4.2 Global Dry Electrode Process Consumption Value Market Share by Adhesive Mechanism in 2025

1.4.3 PTFE Fibrillation

1.4.4 Thermoplastic Adhesive

1.4.5 Adhesive-free

1.5 Classification of Dry Electrode Process by Electrode Target

1.5.1 Overview: Global Dry Electrode Process Market Size by Electrode Target: 2021 Versus 2025 Versus 2032

1.5.2 Global Dry Electrode Process Consumption Value Market Share by Electrode Target in 2025

1.5.3 Dry Cathode

1.5.4 Dry Anode

1.5.5 Hybrid

1.6 Global Dry Electrode Process Market by Application

1.6.1 Overview: Global Dry Electrode Process Market Size by Application: 2021 Versus 2025 Versus 2032

1.6.2 Power Batteries

1.6.3 Energy Storage Batteries

1.6.4 Solid-state Batteries

1.6.5 Supercapacitors

1.7 Global Dry Electrode Process Market Size & Forecast

- 1.8 Global Dry Electrode Process Market Size and Forecast by Region
 - 1.8.1 Global Dry Electrode Process Market Size by Region: 2021 VS 2025 VS 2032
 - 1.8.2 Global Dry Electrode Process Market Size by Region, (2021-2032)
 - 1.8.3 North America Dry Electrode Process Market Size and Prospect (2021-2032)
 - 1.8.4 Europe Dry Electrode Process Market Size and Prospect (2021-2032)
 - 1.8.5 Asia-Pacific Dry Electrode Process Market Size and Prospect (2021-2032)
 - 1.8.6 South America Dry Electrode Process Market Size and Prospect (2021-2032)
 - 1.8.7 Middle East & Africa Dry Electrode Process Market Size and Prospect (2021-2032)

2 COMPANY PROFILES

2.1 Tesla

- 2.1.1 Tesla Details
- 2.1.2 Tesla Major Business
- 2.1.3 Tesla Dry Electrode Process Product and Solutions
- 2.1.4 Tesla Dry Electrode Process Revenue, Gross Margin and Market Share (2021-2026)
- 2.1.5 Tesla Recent Developments and Future Plans

2.2 LG Energy Solution

- 2.2.1 LG Energy Solution Details
- 2.2.2 LG Energy Solution Major Business
- 2.2.3 LG Energy Solution Dry Electrode Process Product and Solutions
- 2.2.4 LG Energy Solution Dry Electrode Process Revenue, Gross Margin and Market Share (2021-2026)
- 2.2.5 LG Energy Solution Recent Developments and Future Plans

2.3 CATL

- 2.3.1 CATL Details
- 2.3.2 CATL Major Business
- 2.3.3 CATL Dry Electrode Process Product and Solutions
- 2.3.4 CATL Dry Electrode Process Revenue, Gross Margin and Market Share (2021-2026)
- 2.3.5 CATL Recent Developments and Future Plans

2.4 BYD

- 2.4.1 BYD Details
- 2.4.2 BYD Major Business
- 2.4.3 BYD Dry Electrode Process Product and Solutions
- 2.4.4 BYD Dry Electrode Process Revenue, Gross Margin and Market Share (2021-2026)

- 2.4.5 BYD Recent Developments and Future Plans
- 2.5 Samsung SDI
 - 2.5.1 Samsung SDI Details
 - 2.5.2 Samsung SDI Major Business
 - 2.5.3 Samsung SDI Dry Electrode Process Product and Solutions
 - 2.5.4 Samsung SDI Dry Electrode Process Revenue, Gross Margin and Market Share (2021-2026)
 - 2.5.5 Samsung SDI Recent Developments and Future Plans
- 2.6 Panasonic
 - 2.6.1 Panasonic Details
 - 2.6.2 Panasonic Major Business
 - 2.6.3 Panasonic Dry Electrode Process Product and Solutions
 - 2.6.4 Panasonic Dry Electrode Process Revenue, Gross Margin and Market Share (2021-2026)
 - 2.6.5 Panasonic Recent Developments and Future Plans
- 2.7 EVE Energy
 - 2.7.1 EVE Energy Details
 - 2.7.2 EVE Energy Major Business
 - 2.7.3 EVE Energy Dry Electrode Process Product and Solutions
 - 2.7.4 EVE Energy Dry Electrode Process Revenue, Gross Margin and Market Share (2021-2026)
 - 2.7.5 EVE Energy Recent Developments and Future Plans
- 2.8 Gotion
 - 2.8.1 Gotion Details
 - 2.8.2 Gotion Major Business
 - 2.8.3 Gotion Dry Electrode Process Product and Solutions
 - 2.8.4 Gotion Dry Electrode Process Revenue, Gross Margin and Market Share (2021-2026)
 - 2.8.5 Gotion Recent Developments and Future Plans
- 2.9 Hongmumian
 - 2.9.1 Hongmumian Details
 - 2.9.2 Hongmumian Major Business
 - 2.9.3 Hongmumian Dry Electrode Process Product and Solutions
 - 2.9.4 Hongmumian Dry Electrode Process Revenue, Gross Margin and Market Share (2021-2026)
 - 2.9.5 Hongmumian Recent Developments and Future Plans
- 2.10 SK On
 - 2.10.1 SK On Details
 - 2.10.2 SK On Major Business

- 2.10.3 SK On Dry Electrode Process Product and Solutions
- 2.10.4 SK On Dry Electrode Process Revenue, Gross Margin and Market Share (2021-2026)
- 2.10.5 SK On Recent Developments and Future Plans
- 2.11 Sakuu
 - 2.11.1 Sakuu Details
 - 2.11.2 Sakuu Major Business
 - 2.11.3 Sakuu Dry Electrode Process Product and Solutions
 - 2.11.4 Sakuu Dry Electrode Process Revenue, Gross Margin and Market Share (2021-2026)
 - 2.11.5 Sakuu Recent Developments and Future Plans
- 2.12 Tsingyane Electronics
 - 2.12.1 Tsingyane Electronics Details
 - 2.12.2 Tsingyane Electronics Major Business
 - 2.12.3 Tsingyane Electronics Dry Electrode Process Product and Solutions
 - 2.12.4 Tsingyane Electronics Dry Electrode Process Revenue, Gross Margin and Market Share (2021-2026)
 - 2.12.5 Tsingyane Electronics Recent Developments and Future Plans
- 2.13 LiCAP Technologies
 - 2.13.1 LiCAP Technologies Details
 - 2.13.2 LiCAP Technologies Major Business
 - 2.13.3 LiCAP Technologies Dry Electrode Process Product and Solutions
 - 2.13.4 LiCAP Technologies Dry Electrode Process Revenue, Gross Margin and Market Share (2021-2026)
 - 2.13.5 LiCAP Technologies Recent Developments and Future Plans
- 2.14 AM Battery
 - 2.14.1 AM Battery Details
 - 2.14.2 AM Battery Major Business
 - 2.14.3 AM Battery Dry Electrode Process Product and Solutions
 - 2.14.4 AM Battery Dry Electrode Process Revenue, Gross Margin and Market Share (2021-2026)
 - 2.14.5 AM Battery Recent Developments and Future Plans
- 2.15 Anaphite
 - 2.15.1 Anaphite Details
 - 2.15.2 Anaphite Major Business
 - 2.15.3 Anaphite Dry Electrode Process Product and Solutions
 - 2.15.4 Anaphite Dry Electrode Process Revenue, Gross Margin and Market Share (2021-2026)
 - 2.15.5 Anaphite Recent Developments and Future Plans

2.16 Ateios Systems

2.16.1 Ateios Systems Details

2.16.2 Ateios Systems Major Business

2.16.3 Ateios Systems Dry Electrode Process Product and Solutions

2.16.4 Ateios Systems Dry Electrode Process Revenue, Gross Margin and Market Share (2021-2026)

2.16.5 Ateios Systems Recent Developments and Future Plans

2.17 Intecells

2.17.1 Intecells Details

2.17.2 Intecells Major Business

2.17.3 Intecells Dry Electrode Process Product and Solutions

2.17.4 Intecells Dry Electrode Process Revenue, Gross Margin and Market Share (2021-2026)

2.17.5 Intecells Recent Developments and Future Plans

2.18 Dragonfly Energy

2.18.1 Dragonfly Energy Details

2.18.2 Dragonfly Energy Major Business

2.18.3 Dragonfly Energy Dry Electrode Process Product and Solutions

2.18.4 Dragonfly Energy Dry Electrode Process Revenue, Gross Margin and Market Share (2021-2026)

2.18.5 Dragonfly Energy Recent Developments and Future Plans

2.19 Coperion

2.19.1 Coperion Details

2.19.2 Coperion Major Business

2.19.3 Coperion Dry Electrode Process Product and Solutions

2.19.4 Coperion Dry Electrode Process Revenue, Gross Margin and Market Share (2021-2026)

2.19.5 Coperion Recent Developments and Future Plans

3 MARKET COMPETITION, BY PLAYERS

3.1 Global Dry Electrode Process Revenue and Share by Players (2021-2026)

3.2 Market Share Analysis (2025)

3.2.1 Market Share of Dry Electrode Process by Company Revenue

3.2.2 Top 3 Dry Electrode Process Players Market Share in 2025

3.2.3 Top 6 Dry Electrode Process Players Market Share in 2025

3.3 Dry Electrode Process Market: Overall Company Footprint Analysis

3.3.1 Dry Electrode Process Market: Region Footprint

3.3.2 Dry Electrode Process Market: Company Product Type Footprint

- 3.3.3 Dry Electrode Process Market: Company Product Application Footprint
- 3.4 New Market Entrants and Barriers to Market Entry
- 3.5 Mergers, Acquisition, Agreements, and Collaborations

4 MARKET SIZE SEGMENT BY FILM FORMATION METHOD

- 4.1 Global Dry Electrode Process Consumption Value and Market Share by Film Formation Method (2021-2026)
- 4.2 Global Dry Electrode Process Market Forecast by Film Formation Method (2027-2032)

5 MARKET SIZE SEGMENT BY APPLICATION

- 5.1 Global Dry Electrode Process Consumption Value Market Share by Application (2021-2026)
- 5.2 Global Dry Electrode Process Market Forecast by Application (2027-2032)

6 NORTH AMERICA

- 6.1 North America Dry Electrode Process Consumption Value by Film Formation Method (2021-2032)
- 6.2 North America Dry Electrode Process Market Size by Application (2021-2032)
- 6.3 North America Dry Electrode Process Market Size by Country
 - 6.3.1 North America Dry Electrode Process Consumption Value by Country (2021-2032)
 - 6.3.2 United States Dry Electrode Process Market Size and Forecast (2021-2032)
 - 6.3.3 Canada Dry Electrode Process Market Size and Forecast (2021-2032)
 - 6.3.4 Mexico Dry Electrode Process Market Size and Forecast (2021-2032)

7 EUROPE

- 7.1 Europe Dry Electrode Process Consumption Value by Film Formation Method (2021-2032)
- 7.2 Europe Dry Electrode Process Consumption Value by Application (2021-2032)
- 7.3 Europe Dry Electrode Process Market Size by Country
 - 7.3.1 Europe Dry Electrode Process Consumption Value by Country (2021-2032)
 - 7.3.2 Germany Dry Electrode Process Market Size and Forecast (2021-2032)
 - 7.3.3 France Dry Electrode Process Market Size and Forecast (2021-2032)
 - 7.3.4 United Kingdom Dry Electrode Process Market Size and Forecast (2021-2032)

7.3.5 Russia Dry Electrode Process Market Size and Forecast (2021-2032)

7.3.6 Italy Dry Electrode Process Market Size and Forecast (2021-2032)

8 ASIA-PACIFIC

8.1 Asia-Pacific Dry Electrode Process Consumption Value by Film Formation Method (2021-2032)

8.2 Asia-Pacific Dry Electrode Process Consumption Value by Application (2021-2032)

8.3 Asia-Pacific Dry Electrode Process Market Size by Region

8.3.1 Asia-Pacific Dry Electrode Process Consumption Value by Region (2021-2032)

8.3.2 China Dry Electrode Process Market Size and Forecast (2021-2032)

8.3.3 Japan Dry Electrode Process Market Size and Forecast (2021-2032)

8.3.4 South Korea Dry Electrode Process Market Size and Forecast (2021-2032)

8.3.5 India Dry Electrode Process Market Size and Forecast (2021-2032)

8.3.6 Southeast Asia Dry Electrode Process Market Size and Forecast (2021-2032)

8.3.7 Australia Dry Electrode Process Market Size and Forecast (2021-2032)

9 SOUTH AMERICA

9.1 South America Dry Electrode Process Consumption Value by Film Formation Method (2021-2032)

9.2 South America Dry Electrode Process Consumption Value by Application (2021-2032)

9.3 South America Dry Electrode Process Market Size by Country

9.3.1 South America Dry Electrode Process Consumption Value by Country (2021-2032)

9.3.2 Brazil Dry Electrode Process Market Size and Forecast (2021-2032)

9.3.3 Argentina Dry Electrode Process Market Size and Forecast (2021-2032)

10 MIDDLE EAST & AFRICA

10.1 Middle East & Africa Dry Electrode Process Consumption Value by Film Formation Method (2021-2032)

10.2 Middle East & Africa Dry Electrode Process Consumption Value by Application (2021-2032)

10.3 Middle East & Africa Dry Electrode Process Market Size by Country

10.3.1 Middle East & Africa Dry Electrode Process Consumption Value by Country (2021-2032)

10.3.2 Turkey Dry Electrode Process Market Size and Forecast (2021-2032)

10.3.3 Saudi Arabia Dry Electrode Process Market Size and Forecast (2021-2032)

10.3.4 UAE Dry Electrode Process Market Size and Forecast (2021-2032)

11 MARKET DYNAMICS

11.1 Dry Electrode Process Market Drivers

11.2 Dry Electrode Process Market Restraints

11.3 Dry Electrode Process Trends Analysis

11.4 Porters Five Forces Analysis

11.4.1 Threat of New Entrants

11.4.2 Bargaining Power of Suppliers

11.4.3 Bargaining Power of Buyers

11.4.4 Threat of Substitutes

11.4.5 Competitive Rivalry

12 INDUSTRY CHAIN ANALYSIS

12.1 Dry Electrode Process Industry Chain

12.2 Dry Electrode Process Upstream Analysis

12.3 Dry Electrode Process Midstream Analysis

12.4 Dry Electrode Process Downstream Analysis

13 RESEARCH FINDINGS AND CONCLUSION

14 APPENDIX

14.1 Methodology

14.2 Research Process and Data Source

14.3 Disclaimer

List Of Tables

LIST OF TABLES

Table 1. Global Dry Electrode Process Consumption Value by Film Formation Method, (USD Million), 2021 & 2025 & 2032

Table 2. Global Dry Electrode Process Consumption Value by Adhesive Mechanism, (USD Million), 2021 & 2025 & 2032

Table 3. Global Dry Electrode Process Consumption Value by Electrode Target, (USD Million), 2021 & 2025 & 2032

Table 4. Global Dry Electrode Process Consumption Value by Application, (USD Million), 2021 & 2025 & 2032

Table 5. Global Dry Electrode Process Consumption Value by Region (2021-2026) & (USD Million)

Table 6. Global Dry Electrode Process Consumption Value by Region (2027-2032) & (USD Million)

Table 7. Tesla Company Information, Head Office, and Major Competitors

Table 8. Tesla Major Business

Table 9. Tesla Dry Electrode Process Product and Solutions

Table 10. Tesla Dry Electrode Process Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 11. Tesla Recent Developments and Future Plans

Table 12. LG Energy Solution Company Information, Head Office, and Major Competitors

Table 13. LG Energy Solution Major Business

Table 14. LG Energy Solution Dry Electrode Process Product and Solutions

Table 15. LG Energy Solution Dry Electrode Process Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 16. LG Energy Solution Recent Developments and Future Plans

Table 17. CATL Company Information, Head Office, and Major Competitors

Table 18. CATL Major Business

Table 19. CATL Dry Electrode Process Product and Solutions

Table 20. CATL Dry Electrode Process Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 21. BYD Company Information, Head Office, and Major Competitors

Table 22. BYD Major Business

Table 23. BYD Dry Electrode Process Product and Solutions

Table 24. BYD Dry Electrode Process Revenue (USD Million), Gross Margin and Market Share (2021-2026)

- Table 25. BYD Recent Developments and Future Plans
- Table 26. Samsung SDI Company Information, Head Office, and Major Competitors
- Table 27. Samsung SDI Major Business
- Table 28. Samsung SDI Dry Electrode Process Product and Solutions
- Table 29. Samsung SDI Dry Electrode Process Revenue (USD Million), Gross Margin and Market Share (2021-2026)
- Table 30. Samsung SDI Recent Developments and Future Plans
- Table 31. Panasonic Company Information, Head Office, and Major Competitors
- Table 32. Panasonic Major Business
- Table 33. Panasonic Dry Electrode Process Product and Solutions
- Table 34. Panasonic Dry Electrode Process Revenue (USD Million), Gross Margin and Market Share (2021-2026)
- Table 35. Panasonic Recent Developments and Future Plans
- Table 36. EVE Energy Company Information, Head Office, and Major Competitors
- Table 37. EVE Energy Major Business
- Table 38. EVE Energy Dry Electrode Process Product and Solutions
- Table 39. EVE Energy Dry Electrode Process Revenue (USD Million), Gross Margin and Market Share (2021-2026)
- Table 40. EVE Energy Recent Developments and Future Plans
- Table 41. Gotion Company Information, Head Office, and Major Competitors
- Table 42. Gotion Major Business
- Table 43. Gotion Dry Electrode Process Product and Solutions
- Table 44. Gotion Dry Electrode Process Revenue (USD Million), Gross Margin and Market Share (2021-2026)
- Table 45. Gotion Recent Developments and Future Plans
- Table 46. Hongmumian Company Information, Head Office, and Major Competitors
- Table 47. Hongmumian Major Business
- Table 48. Hongmumian Dry Electrode Process Product and Solutions
- Table 49. Hongmumian Dry Electrode Process Revenue (USD Million), Gross Margin and Market Share (2021-2026)
- Table 50. Hongmumian Recent Developments and Future Plans
- Table 51. SK On Company Information, Head Office, and Major Competitors
- Table 52. SK On Major Business
- Table 53. SK On Dry Electrode Process Product and Solutions
- Table 54. SK On Dry Electrode Process Revenue (USD Million), Gross Margin and Market Share (2021-2026)
- Table 55. SK On Recent Developments and Future Plans
- Table 56. Sakuu Company Information, Head Office, and Major Competitors
- Table 57. Sakuu Major Business

Table 58. Sakuu Dry Electrode Process Product and Solutions

Table 59. Sakuu Dry Electrode Process Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 60. Sakuu Recent Developments and Future Plans

Table 61. Tsingyane Electronics Company Information, Head Office, and Major Competitors

Table 62. Tsingyane Electronics Major Business

Table 63. Tsingyane Electronics Dry Electrode Process Product and Solutions

Table 64. Tsingyane Electronics Dry Electrode Process Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 65. Tsingyane Electronics Recent Developments and Future Plans

Table 66. LiCAP Technologies Company Information, Head Office, and Major Competitors

Table 67. LiCAP Technologies Major Business

Table 68. LiCAP Technologies Dry Electrode Process Product and Solutions

Table 69. LiCAP Technologies Dry Electrode Process Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 70. LiCAP Technologies Recent Developments and Future Plans

Table 71. AM Battery Company Information, Head Office, and Major Competitors

Table 72. AM Battery Major Business

Table 73. AM Battery Dry Electrode Process Product and Solutions

Table 74. AM Battery Dry Electrode Process Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 75. AM Battery Recent Developments and Future Plans

Table 76. Anaphite Company Information, Head Office, and Major Competitors

Table 77. Anaphite Major Business

Table 78. Anaphite Dry Electrode Process Product and Solutions

Table 79. Anaphite Dry Electrode Process Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 80. Anaphite Recent Developments and Future Plans

Table 81. Ateios Systems Company Information, Head Office, and Major Competitors

Table 82. Ateios Systems Major Business

Table 83. Ateios Systems Dry Electrode Process Product and Solutions

Table 84. Ateios Systems Dry Electrode Process Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 85. Ateios Systems Recent Developments and Future Plans

Table 86. Intecells Company Information, Head Office, and Major Competitors

Table 87. Intecells Major Business

Table 88. Intecells Dry Electrode Process Product and Solutions

Table 89. Intecells Dry Electrode Process Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 90. Intecells Recent Developments and Future Plans

Table 91. Dragonfly Energy Company Information, Head Office, and Major Competitors

Table 92. Dragonfly Energy Major Business

Table 93. Dragonfly Energy Dry Electrode Process Product and Solutions

Table 94. Dragonfly Energy Dry Electrode Process Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 95. Dragonfly Energy Recent Developments and Future Plans

Table 96. Coperion Company Information, Head Office, and Major Competitors

Table 97. Coperion Major Business

Table 98. Coperion Dry Electrode Process Product and Solutions

Table 99. Coperion Dry Electrode Process Revenue (USD Million), Gross Margin and Market Share (2021-2026)

Table 100. Coperion Recent Developments and Future Plans

Table 101. Global Dry Electrode Process Revenue (USD Million) by Players (2021-2026)

Table 102. Global Dry Electrode Process Revenue Share by Players (2021-2026)

Table 103. Breakdown of Dry Electrode Process by Company Type (Tier 1, Tier 2, and Tier 3)

Table 104. Market Position of Players in Dry Electrode Process, (Tier 1, Tier 2, and Tier 3), Based on Revenue in 2025

Table 105. Head Office of Key Dry Electrode Process Players

Table 106. Dry Electrode Process Market: Company Product Type Footprint

Table 107. Dry Electrode Process Market: Company Product Application Footprint

Table 108. Dry Electrode Process New Market Entrants and Barriers to Market Entry

Table 109. Dry Electrode Process Mergers, Acquisition, Agreements, and Collaborations

Table 110. Global Dry Electrode Process Consumption Value (USD Million) by Film Formation Method (2021-2026)

Table 111. Global Dry Electrode Process Consumption Value Share by Film Formation Method (2021-2026)

Table 112. Global Dry Electrode Process Consumption Value Forecast by Film Formation Method (2027-2032)

Table 113. Global Dry Electrode Process Consumption Value by Application (2021-2026)

Table 114. Global Dry Electrode Process Consumption Value Forecast by Application (2027-2032)

Table 115. North America Dry Electrode Process Consumption Value by Film Formation

Method (2021-2026) & (USD Million)

Table 116. North America Dry Electrode Process Consumption Value by Film Formation Method (2027-2032) & (USD Million)

Table 117. North America Dry Electrode Process Consumption Value by Application (2021-2026) & (USD Million)

Table 118. North America Dry Electrode Process Consumption Value by Application (2027-2032) & (USD Million)

Table 119. North America Dry Electrode Process Consumption Value by Country (2021-2026) & (USD Million)

Table 120. North America Dry Electrode Process Consumption Value by Country (2027-2032) & (USD Million)

Table 121. Europe Dry Electrode Process Consumption Value by Film Formation Method (2021-2026) & (USD Million)

Table 122. Europe Dry Electrode Process Consumption Value by Film Formation Method (2027-2032) & (USD Million)

Table 123. Europe Dry Electrode Process Consumption Value by Application (2021-2026) & (USD Million)

Table 124. Europe Dry Electrode Process Consumption Value by Application (2027-2032) & (USD Million)

Table 125. Europe Dry Electrode Process Consumption Value by Country (2021-2026) & (USD Million)

Table 126. Europe Dry Electrode Process Consumption Value by Country (2027-2032) & (USD Million)

Table 127. Asia-Pacific Dry Electrode Process Consumption Value by Film Formation Method (2021-2026) & (USD Million)

Table 128. Asia-Pacific Dry Electrode Process Consumption Value by Film Formation Method (2027-2032) & (USD Million)

Table 129. Asia-Pacific Dry Electrode Process Consumption Value by Application (2021-2026) & (USD Million)

Table 130. Asia-Pacific Dry Electrode Process Consumption Value by Application (2027-2032) & (USD Million)

Table 131. Asia-Pacific Dry Electrode Process Consumption Value by Region (2021-2026) & (USD Million)

Table 132. Asia-Pacific Dry Electrode Process Consumption Value by Region (2027-2032) & (USD Million)

Table 133. South America Dry Electrode Process Consumption Value by Film Formation Method (2021-2026) & (USD Million)

Table 134. South America Dry Electrode Process Consumption Value by Film Formation Method (2027-2032) & (USD Million)

Table 135. South America Dry Electrode Process Consumption Value by Application (2021-2026) & (USD Million)

Table 136. South America Dry Electrode Process Consumption Value by Application (2027-2032) & (USD Million)

Table 137. South America Dry Electrode Process Consumption Value by Country (2021-2026) & (USD Million)

Table 138. South America Dry Electrode Process Consumption Value by Country (2027-2032) & (USD Million)

Table 139. Middle East & Africa Dry Electrode Process Consumption Value by Film Formation Method (2021-2026) & (USD Million)

Table 140. Middle East & Africa Dry Electrode Process Consumption Value by Film Formation Method (2027-2032) & (USD Million)

Table 141. Middle East & Africa Dry Electrode Process Consumption Value by Application (2021-2026) & (USD Million)

Table 142. Middle East & Africa Dry Electrode Process Consumption Value by Application (2027-2032) & (USD Million)

Table 143. Middle East & Africa Dry Electrode Process Consumption Value by Country (2021-2026) & (USD Million)

Table 144. Middle East & Africa Dry Electrode Process Consumption Value by Country (2027-2032) & (USD Million)

Table 145. Global Key Players of Dry Electrode Process Upstream (Raw Materials)

Table 146. Global Dry Electrode Process Typical Customers

List Of Figures

LIST OF FIGURES

- Figure 1. Dry Electrode Process Picture
- Figure 2. Global Dry Electrode Process Consumption Value by Film Formation Method, (USD Million), 2021 & 2025 & 2032
- Figure 3. Global Dry Electrode Process Consumption Value Market Share by Film Formation Method in 2025
- Figure 4. Dry Roll Forming
- Figure 5. Dry Spray Deposition
- Figure 6. 3D Printing
- Figure 7. Extrusion Molding
- Figure 8. Global Dry Electrode Process Consumption Value by Adhesive Mechanism, (USD Million), 2021 & 2025 & 2032
- Figure 9. Global Dry Electrode Process Consumption Value Market Share by Adhesive Mechanism in 2025
- Figure 10. PTFE Fibrillation
- Figure 11. Thermoplastic Adhesive
- Figure 12. Adhesive-free
- Figure 13. Global Dry Electrode Process Consumption Value by Electrode Target, (USD Million), 2021 & 2025 & 2032
- Figure 14. Global Dry Electrode Process Consumption Value Market Share by Electrode Target in 2025
- Figure 15. Dry Cathode
- Figure 16. Dry Anode
- Figure 17. Hybrid
- Figure 18. Global Dry Electrode Process Consumption Value by Application, (USD Million), 2021 & 2025 & 2032
- Figure 19. Dry Electrode Process Consumption Value Market Share by Application in 2025
- Figure 20. Power Batteries Picture
- Figure 21. Energy Storage Batteries Picture
- Figure 22. Solid-state Batteries Picture
- Figure 23. Supercapacitors Picture
- Figure 24. Global Dry Electrode Process Consumption Value, (USD Million): 2021 & 2025 & 2032
- Figure 25. Global Dry Electrode Process Consumption Value and Forecast (2021-2032) & (USD Million)

Figure 26. Global Market Dry Electrode Process Consumption Value (USD Million) Comparison by Region (2021 VS 2025 VS 2032)

Figure 27. Global Dry Electrode Process Consumption Value Market Share by Region (2021-2032)

Figure 28. Global Dry Electrode Process Consumption Value Market Share by Region in 2025

Figure 29. North America Dry Electrode Process Consumption Value (2021-2032) & (USD Million)

Figure 30. Europe Dry Electrode Process Consumption Value (2021-2032) & (USD Million)

Figure 31. Asia-Pacific Dry Electrode Process Consumption Value (2021-2032) & (USD Million)

Figure 32. South America Dry Electrode Process Consumption Value (2021-2032) & (USD Million)

Figure 33. Middle East & Africa Dry Electrode Process Consumption Value (2021-2032) & (USD Million)

Figure 34. Company Three Recent Developments and Future Plans

Figure 35. Global Dry Electrode Process Revenue Share by Players in 2025

Figure 36. Dry Electrode Process Market Share by Company Type (Tier 1, Tier 2, and Tier 3) in 2025

Figure 37. Market Share of Dry Electrode Process by Player Revenue in 2025

Figure 38. Top 3 Dry Electrode Process Players Market Share in 2025

Figure 39. Top 6 Dry Electrode Process Players Market Share in 2025

Figure 40. Global Dry Electrode Process Consumption Value Share by Film Formation Method (2021-2026)

Figure 41. Global Dry Electrode Process Market Share Forecast by Film Formation Method (2027-2032)

Figure 42. Global Dry Electrode Process Consumption Value Share by Application (2021-2026)

Figure 43. Global Dry Electrode Process Market Share Forecast by Application (2027-2032)

Figure 44. North America Dry Electrode Process Consumption Value Market Share by Film Formation Method (2021-2032)

Figure 45. North America Dry Electrode Process Consumption Value Market Share by Application (2021-2032)

Figure 46. North America Dry Electrode Process Consumption Value Market Share by Country (2021-2032)

Figure 47. United States Dry Electrode Process Consumption Value (2021-2032) & (USD Million)

Figure 48. Canada Dry Electrode Process Consumption Value (2021-2032) & (USD Million)

Figure 49. Mexico Dry Electrode Process Consumption Value (2021-2032) & (USD Million)

Figure 50. Europe Dry Electrode Process Consumption Value Market Share by Film Formation Method (2021-2032)

Figure 51. Europe Dry Electrode Process Consumption Value Market Share by Application (2021-2032)

Figure 52. Europe Dry Electrode Process Consumption Value Market Share by Country (2021-2032)

Figure 53. Germany Dry Electrode Process Consumption Value (2021-2032) & (USD Million)

Figure 54. France Dry Electrode Process Consumption Value (2021-2032) & (USD Million)

Figure 55. United Kingdom Dry Electrode Process Consumption Value (2021-2032) & (USD Million)

Figure 56. Russia Dry Electrode Process Consumption Value (2021-2032) & (USD Million)

Figure 57. Italy Dry Electrode Process Consumption Value (2021-2032) & (USD Million)

Figure 58. Asia-Pacific Dry Electrode Process Consumption Value Market Share by Film Formation Method (2021-2032)

Figure 59. Asia-Pacific Dry Electrode Process Consumption Value Market Share by Application (2021-2032)

Figure 60. Asia-Pacific Dry Electrode Process Consumption Value Market Share by Region (2021-2032)

Figure 61. China Dry Electrode Process Consumption Value (2021-2032) & (USD Million)

Figure 62. Japan Dry Electrode Process Consumption Value (2021-2032) & (USD Million)

Figure 63. South Korea Dry Electrode Process Consumption Value (2021-2032) & (USD Million)

Figure 64. India Dry Electrode Process Consumption Value (2021-2032) & (USD Million)

Figure 65. Southeast Asia Dry Electrode Process Consumption Value (2021-2032) & (USD Million)

Figure 66. Australia Dry Electrode Process Consumption Value (2021-2032) & (USD Million)

Figure 67. South America Dry Electrode Process Consumption Value Market Share by Film Formation Method (2021-2032)

Figure 68. South America Dry Electrode Process Consumption Value Market Share by Application (2021-2032)

Figure 69. South America Dry Electrode Process Consumption Value Market Share by Country (2021-2032)

Figure 70. Brazil Dry Electrode Process Consumption Value (2021-2032) & (USD Million)

Figure 71. Argentina Dry Electrode Process Consumption Value (2021-2032) & (USD Million)

Figure 72. Middle East & Africa Dry Electrode Process Consumption Value Market Share by Film Formation Method (2021-2032)

Figure 73. Middle East & Africa Dry Electrode Process Consumption Value Market Share by Application (2021-2032)

Figure 74. Middle East & Africa Dry Electrode Process Consumption Value Market Share by Country (2021-2032)

Figure 75. Turkey Dry Electrode Process Consumption Value (2021-2032) & (USD Million)

Figure 76. Saudi Arabia Dry Electrode Process Consumption Value (2021-2032) & (USD Million)

Figure 77. UAE Dry Electrode Process Consumption Value (2021-2032) & (USD Million)

Figure 78. Dry Electrode Process Market Drivers

Figure 79. Dry Electrode Process Market Restraints

Figure 80. Dry Electrode Process Market Trends

Figure 81. Porters Five Forces Analysis

Figure 82. Dry Electrode Process Industrial Chain

Figure 83. Methodology

Figure 84. Research Process and Data Source

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