

Silicon-based Battery Anode Material Market, Global Outlook and Forecast 2022-2028

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Abstracts

Silicon has been recognized as a one of the most promising anode materials to replace currently used graphite in the anodes of Li-ion batteries due to its high gravimetric theoretical lithium storage capacity. Fast charging is feasible due to the high porosity inherent to silicon anode solutions, while costs can be reduced because of silicon materials' high capacity, which results in lower material requirements. Silicon anodes are also considered safer because they help reduce the risk of lithium plating and dendrite formation, even though cycle and calendar life may need to be further demonstrated.

This report contains market size and forecasts of Silicon-based Battery Anode Material in global, including the following market information:

Global Silicon-based Battery Anode Material Market Revenue, 2017-2022, 2023-2028, (\$ millions)

Global Silicon-based Battery Anode Material Market Sales, 2017-2022, 2023-2028, (Tons)

Global top five Silicon-based Battery Anode Material companies in 2021 (%)

The global Silicon-based Battery Anode Material market was valued at 391 million in 2021 and is projected to reach US\$ 4189.7 million by 2028, at a CAGR of 40.3% during the forecast period 2022-2028.

The U.S. Market is Estimated at \$ Million in 2021, While China is Forecast to Reach \$ Million by 2028.

SiO/C Segment to Reach \$ Million by 2028, with a % CAGR in next six years.

The global key manufacturers of Silicon-based Battery Anode Material include BTR, Shin-Etsu Chemical, Daejoo Electronic Materials, Shanshan Corporation, Jiangxi Zhengtuo Energy, Posco Chemical, Showa Denko, Chengdu Guibao and Shida Shenghua, etc. In 2021, the global top five players have a share approximately % in terms of revenue.

MARKET MONITOR GLOBAL, INC (MMG) has surveyed the Silicon-based Battery Anode Material manufacturers, suppliers, distributors and industry experts on this industry, involving the sales, revenue, demand, price change, product type, recent development and plan, industry trends, drivers, challenges, obstacles, and potential risks.

Total Market by Segment:

Global Silicon-based Battery Anode Material Market, by Type, 2017-2022, 2023-2028 (\$ Millions) & (Tons)

Global Silicon-based Battery Anode Material Market Segment Percentages, by Type, 2021 (%)

SiO/C

Si/C

Global Silicon-based Battery Anode Material Market, by Application, 2017-2022, 2023-2028 (\$ Millions) & (Tons)

Global Silicon-based Battery Anode Material Market Segment Percentages, by Application, 2021 (%)

Automotive

Consumer Electronics

Power Tools

Others

Global Silicon-based Battery Anode Material Market, By Region and Country,
2017-2022, 2023-2028 (\$ Millions) & (Tons)

Global Silicon-based Battery Anode Material Market Segment Percentages, By Region
and Country, 2021 (%)

North America

US

Canada

Mexico

Europe

Germany

France

U.K.

Italy

Russia

Nordic Countries

Benelux

Rest of Europe

Asia

China

Japan

South Korea

Southeast Asia

India

Rest of Asia

South America

Brazil

Argentina

Rest of South America

Middle East & Africa

Turkey

Israel

Saudi Arabia

UAE

Rest of Middle East & Africa

Competitor Analysis

The report also provides analysis of leading market participants including:

Key companies Silicon-based Battery Anode Material revenues in global market, 2017-2022 (Estimated), (\$ millions)

Key companies Silicon-based Battery Anode Material revenues share in global market, 2021 (%)

Key companies Silicon-based Battery Anode Material sales in global market, 2017-2022 (Estimated), (Tons)

Key companies Silicon-based Battery Anode Material sales share in global market, 2021 (%)

Further, the report presents profiles of competitors in the market, key players include:

BTR

Shin-Etsu Chemical

Daejoo Electronic Materials

Shanshan Corporation

Jiangxi Zhengtuo Energy

Posco Chemical

Showa Denko

Chengdu Guibao

Shida Shenghua

Shanghai Putailai (Jiangxi Zichen)

Hunan Zhongke Electric (Shinzoom)

Shenzhen XFH

iAmetal

IOPSILION

Guoxuan High-Tech

Group14

Nexeon

Contents

1 INTRODUCTION TO RESEARCH & ANALYSIS REPORTS

- 1.1 Silicon-based Battery Anode Material Market Definition
- 1.2 Market Segments
 - 1.2.1 Market by Type
 - 1.2.2 Market by Application
- 1.3 Global Silicon-based Battery Anode Material Market Overview
- 1.4 Features & Benefits of This Report
- 1.5 Methodology & Sources of Information
 - 1.5.1 Research Methodology
 - 1.5.2 Research Process
 - 1.5.3 Base Year
 - 1.5.4 Report Assumptions & Caveats

2 GLOBAL SILICON-BASED BATTERY ANODE MATERIAL OVERALL MARKET SIZE

- 2.1 Global Silicon-based Battery Anode Material Market Size: 2021 VS 2028
- 2.2 Global Silicon-based Battery Anode Material Revenue, Prospects & Forecasts: 2017-2028
- 2.3 Global Silicon-based Battery Anode Material Sales: 2017-2028

3 COMPANY LANDSCAPE

- 3.1 Top Silicon-based Battery Anode Material Players in Global Market
- 3.2 Top Global Silicon-based Battery Anode Material Companies Ranked by Revenue
- 3.3 Global Silicon-based Battery Anode Material Revenue by Companies
- 3.4 Global Silicon-based Battery Anode Material Sales by Companies
- 3.5 Global Silicon-based Battery Anode Material Price by Manufacturer (2017-2022)
- 3.6 Top 3 and Top 5 Silicon-based Battery Anode Material Companies in Global Market, by Revenue in 2021
- 3.7 Global Manufacturers Silicon-based Battery Anode Material Product Type
- 3.8 Tier 1, Tier 2 and Tier 3 Silicon-based Battery Anode Material Players in Global Market
 - 3.8.1 List of Global Tier 1 Silicon-based Battery Anode Material Companies
 - 3.8.2 List of Global Tier 2 and Tier 3 Silicon-based Battery Anode Material Companies

4 SIGHTS BY PRODUCT

4.1 Overview

4.1.1 By Type - Global Silicon-based Battery Anode Material Market Size Markets, 2021 & 2028

4.1.2 SiO/C

4.1.3 Si/C

4.2 By Type - Global Silicon-based Battery Anode Material Revenue & Forecasts

4.2.1 By Type - Global Silicon-based Battery Anode Material Revenue, 2017-2022

4.2.2 By Type - Global Silicon-based Battery Anode Material Revenue, 2023-2028

4.2.3 By Type - Global Silicon-based Battery Anode Material Revenue Market Share, 2017-2028

4.3 By Type - Global Silicon-based Battery Anode Material Sales & Forecasts

4.3.1 By Type - Global Silicon-based Battery Anode Material Sales, 2017-2022

4.3.2 By Type - Global Silicon-based Battery Anode Material Sales, 2023-2028

4.3.3 By Type - Global Silicon-based Battery Anode Material Sales Market Share, 2017-2028

4.4 By Type - Global Silicon-based Battery Anode Material Price (Manufacturers Selling Prices), 2017-2028

5 SIGHTS BY APPLICATION

5.1 Overview

5.1.1 By Application - Global Silicon-based Battery Anode Material Market Size, 2021 & 2028

5.1.2 Automotive

5.1.3 Consumer Electronics

5.1.4 Power Tools

5.1.5 Others

5.2 By Application - Global Silicon-based Battery Anode Material Revenue & Forecasts

5.2.1 By Application - Global Silicon-based Battery Anode Material Revenue, 2017-2022

5.2.2 By Application - Global Silicon-based Battery Anode Material Revenue, 2023-2028

5.2.3 By Application - Global Silicon-based Battery Anode Material Revenue Market Share, 2017-2028

5.3 By Application - Global Silicon-based Battery Anode Material Sales & Forecasts

5.3.1 By Application - Global Silicon-based Battery Anode Material Sales, 2017-2022

5.3.2 By Application - Global Silicon-based Battery Anode Material Sales, 2023-2028

5.3.3 By Application - Global Silicon-based Battery Anode Material Sales Market Share, 2017-2028

5.4 By Application - Global Silicon-based Battery Anode Material Price (Manufacturers Selling Prices), 2017-2028

6 SIGHTS BY REGION

6.1 By Region - Global Silicon-based Battery Anode Material Market Size, 2021 & 2028

6.2 By Region - Global Silicon-based Battery Anode Material Revenue & Forecasts

6.2.1 By Region - Global Silicon-based Battery Anode Material Revenue, 2017-2022

6.2.2 By Region - Global Silicon-based Battery Anode Material Revenue, 2023-2028

6.2.3 By Region - Global Silicon-based Battery Anode Material Revenue Market Share, 2017-2028

6.3 By Region - Global Silicon-based Battery Anode Material Sales & Forecasts

6.3.1 By Region - Global Silicon-based Battery Anode Material Sales, 2017-2022

6.3.2 By Region - Global Silicon-based Battery Anode Material Sales, 2023-2028

6.3.3 By Region - Global Silicon-based Battery Anode Material Sales Market Share, 2017-2028

6.4 North America

6.4.1 By Country - North America Silicon-based Battery Anode Material Revenue, 2017-2028

6.4.2 By Country - North America Silicon-based Battery Anode Material Sales, 2017-2028

6.4.3 US Silicon-based Battery Anode Material Market Size, 2017-2028

6.4.4 Canada Silicon-based Battery Anode Material Market Size, 2017-2028

6.4.5 Mexico Silicon-based Battery Anode Material Market Size, 2017-2028

6.5 Europe

6.5.1 By Country - Europe Silicon-based Battery Anode Material Revenue, 2017-2028

6.5.2 By Country - Europe Silicon-based Battery Anode Material Sales, 2017-2028

6.5.3 Germany Silicon-based Battery Anode Material Market Size, 2017-2028

6.5.4 France Silicon-based Battery Anode Material Market Size, 2017-2028

6.5.5 U.K. Silicon-based Battery Anode Material Market Size, 2017-2028

6.5.6 Italy Silicon-based Battery Anode Material Market Size, 2017-2028

6.5.7 Russia Silicon-based Battery Anode Material Market Size, 2017-2028

6.5.8 Nordic Countries Silicon-based Battery Anode Material Market Size, 2017-2028

6.5.9 Benelux Silicon-based Battery Anode Material Market Size, 2017-2028

6.6 Asia

6.6.1 By Region - Asia Silicon-based Battery Anode Material Revenue, 2017-2028

6.6.2 By Region - Asia Silicon-based Battery Anode Material Sales, 2017-2028

- 6.6.3 China Silicon-based Battery Anode Material Market Size, 2017-2028
- 6.6.4 Japan Silicon-based Battery Anode Material Market Size, 2017-2028
- 6.6.5 South Korea Silicon-based Battery Anode Material Market Size, 2017-2028
- 6.6.6 Southeast Asia Silicon-based Battery Anode Material Market Size, 2017-2028
- 6.6.7 India Silicon-based Battery Anode Material Market Size, 2017-2028

6.7 South America

6.7.1 By Country - South America Silicon-based Battery Anode Material Revenue, 2017-2028

6.7.2 By Country - South America Silicon-based Battery Anode Material Sales, 2017-2028

6.7.3 Brazil Silicon-based Battery Anode Material Market Size, 2017-2028

6.7.4 Argentina Silicon-based Battery Anode Material Market Size, 2017-2028

6.8 Middle East & Africa

6.8.1 By Country - Middle East & Africa Silicon-based Battery Anode Material Revenue, 2017-2028

6.8.2 By Country - Middle East & Africa Silicon-based Battery Anode Material Sales, 2017-2028

6.8.3 Turkey Silicon-based Battery Anode Material Market Size, 2017-2028

6.8.4 Israel Silicon-based Battery Anode Material Market Size, 2017-2028

6.8.5 Saudi Arabia Silicon-based Battery Anode Material Market Size, 2017-2028

6.8.6 UAE Silicon-based Battery Anode Material Market Size, 2017-2028

7 MANUFACTURERS & BRANDS PROFILES

7.1 BTR

7.1.1 BTR Corporate Summary

7.1.2 BTR Business Overview

7.1.3 BTR Silicon-based Battery Anode Material Major Product Offerings

7.1.4 BTR Silicon-based Battery Anode Material Sales and Revenue in Global (2017-2022)

7.1.5 BTR Key News

7.2 Shin-Etsu Chemical

7.2.1 Shin-Etsu Chemical Corporate Summary

7.2.2 Shin-Etsu Chemical Business Overview

7.2.3 Shin-Etsu Chemical Silicon-based Battery Anode Material Major Product Offerings

7.2.4 Shin-Etsu Chemical Silicon-based Battery Anode Material Sales and Revenue in Global (2017-2022)

7.2.5 Shin-Etsu Chemical Key News

7.3 Daejoo Electronic Materials

7.3.1 Daejoo Electronic Materials Corporate Summary

7.3.2 Daejoo Electronic Materials Business Overview

7.3.3 Daejoo Electronic Materials Silicon-based Battery Anode Material Major Product Offerings

7.3.4 Daejoo Electronic Materials Silicon-based Battery Anode Material Sales and Revenue in Global (2017-2022)

7.3.5 Daejoo Electronic Materials Key News

7.4 Shanshan Corporation

7.4.1 Shanshan Corporation Corporate Summary

7.4.2 Shanshan Corporation Business Overview

7.4.3 Shanshan Corporation Silicon-based Battery Anode Material Major Product Offerings

7.4.4 Shanshan Corporation Silicon-based Battery Anode Material Sales and Revenue in Global (2017-2022)

7.4.5 Shanshan Corporation Key News

7.5 Jiangxi Zhengtuo Energy

7.5.1 Jiangxi Zhengtuo Energy Corporate Summary

7.5.2 Jiangxi Zhengtuo Energy Business Overview

7.5.3 Jiangxi Zhengtuo Energy Silicon-based Battery Anode Material Major Product Offerings

7.5.4 Jiangxi Zhengtuo Energy Silicon-based Battery Anode Material Sales and Revenue in Global (2017-2022)

7.5.5 Jiangxi Zhengtuo Energy Key News

7.6 Posco Chemical

7.6.1 Posco Chemical Corporate Summary

7.6.2 Posco Chemical Business Overview

7.6.3 Posco Chemical Silicon-based Battery Anode Material Major Product Offerings

7.6.4 Posco Chemical Silicon-based Battery Anode Material Sales and Revenue in Global (2017-2022)

7.6.5 Posco Chemical Key News

7.7 Showa Denko

7.7.1 Showa Denko Corporate Summary

7.7.2 Showa Denko Business Overview

7.7.3 Showa Denko Silicon-based Battery Anode Material Major Product Offerings

7.7.4 Showa Denko Silicon-based Battery Anode Material Sales and Revenue in Global (2017-2022)

7.7.5 Showa Denko Key News

7.8 Chengdu Guibao

- 7.8.1 Chengdu Guibao Corporate Summary
- 7.8.2 Chengdu Guibao Business Overview
- 7.8.3 Chengdu Guibao Silicon-based Battery Anode Material Major Product Offerings
- 7.8.4 Chengdu Guibao Silicon-based Battery Anode Material Sales and Revenue in Global (2017-2022)
- 7.8.5 Chengdu Guibao Key News
- 7.9 Shida Shenghua
 - 7.9.1 Shida Shenghua Corporate Summary
 - 7.9.2 Shida Shenghua Business Overview
 - 7.9.3 Shida Shenghua Silicon-based Battery Anode Material Major Product Offerings
 - 7.9.4 Shida Shenghua Silicon-based Battery Anode Material Sales and Revenue in Global (2017-2022)
 - 7.9.5 Shida Shenghua Key News
- 7.10 Shanghai Putailai (Jiangxi Zichen)
 - 7.10.1 Shanghai Putailai (Jiangxi Zichen) Corporate Summary
 - 7.10.2 Shanghai Putailai (Jiangxi Zichen) Business Overview
 - 7.10.3 Shanghai Putailai (Jiangxi Zichen) Silicon-based Battery Anode Material Major Product Offerings
 - 7.10.4 Shanghai Putailai (Jiangxi Zichen) Silicon-based Battery Anode Material Sales and Revenue in Global (2017-2022)
 - 7.10.5 Shanghai Putailai (Jiangxi Zichen) Key News
- 7.11 Hunan Zhongke Electric (Shinzoom)
 - 7.11.1 Hunan Zhongke Electric (Shinzoom) Corporate Summary
 - 7.11.2 Hunan Zhongke Electric (Shinzoom) Silicon-based Battery Anode Material Business Overview
 - 7.11.3 Hunan Zhongke Electric (Shinzoom) Silicon-based Battery Anode Material Major Product Offerings
 - 7.11.4 Hunan Zhongke Electric (Shinzoom) Silicon-based Battery Anode Material Sales and Revenue in Global (2017-2022)
 - 7.11.5 Hunan Zhongke Electric (Shinzoom) Key News
- 7.12 Shenzhen XFH
 - 7.12.1 Shenzhen XFH Corporate Summary
 - 7.12.2 Shenzhen XFH Silicon-based Battery Anode Material Business Overview
 - 7.12.3 Shenzhen XFH Silicon-based Battery Anode Material Major Product Offerings
 - 7.12.4 Shenzhen XFH Silicon-based Battery Anode Material Sales and Revenue in Global (2017-2022)
 - 7.12.5 Shenzhen XFH Key News
- 7.13 iAmetal
 - 7.13.1 iAmetal Corporate Summary

- 7.13.2 iAmetal Silicon-based Battery Anode Material Business Overview
- 7.13.3 iAmetal Silicon-based Battery Anode Material Major Product Offerings
- 7.13.4 iAmetal Silicon-based Battery Anode Material Sales and Revenue in Global (2017-2022)
- 7.13.5 iAmetal Key News
- 7.14 IOPSILION
 - 7.14.1 IOPSILION Corporate Summary
 - 7.14.2 IOPSILION Business Overview
 - 7.14.3 IOPSILION Silicon-based Battery Anode Material Major Product Offerings
 - 7.14.4 IOPSILION Silicon-based Battery Anode Material Sales and Revenue in Global (2017-2022)
 - 7.14.5 IOPSILION Key News
- 7.15 Guoxuan High-Tech
 - 7.15.1 Guoxuan High-Tech Corporate Summary
 - 7.15.2 Guoxuan High-Tech Business Overview
 - 7.15.3 Guoxuan High-Tech Silicon-based Battery Anode Material Major Product Offerings
 - 7.15.4 Guoxuan High-Tech Silicon-based Battery Anode Material Sales and Revenue in Global (2017-2022)
 - 7.15.5 Guoxuan High-Tech Key News
- 7.16 Group14
 - 7.16.1 Group14 Corporate Summary
 - 7.16.2 Group14 Business Overview
 - 7.16.3 Group14 Silicon-based Battery Anode Material Major Product Offerings
 - 7.16.4 Group14 Silicon-based Battery Anode Material Sales and Revenue in Global (2017-2022)
 - 7.16.5 Group14 Key News
- 7.17 Nexeon
 - 7.17.1 Nexeon Corporate Summary
 - 7.17.2 Nexeon Business Overview
 - 7.17.3 Nexeon Silicon-based Battery Anode Material Major Product Offerings
 - 7.17.4 Nexeon Silicon-based Battery Anode Material Sales and Revenue in Global (2017-2022)
 - 7.17.5 Nexeon Key News

8 GLOBAL SILICON-BASED BATTERY ANODE MATERIAL PRODUCTION CAPACITY, ANALYSIS

8.1 Global Silicon-based Battery Anode Material Production Capacity, 2017-2028

8.2 Silicon-based Battery Anode Material Production Capacity of Key Manufacturers in Global Market

8.3 Global Silicon-based Battery Anode Material Production by Region

9 KEY MARKET TRENDS, OPPORTUNITY, DRIVERS AND RESTRAINTS

9.1 Market Opportunities & Trends

9.2 Market Drivers

9.3 Market Restraints

10 SILICON-BASED BATTERY ANODE MATERIAL SUPPLY CHAIN ANALYSIS

10.1 Silicon-based Battery Anode Material Industry Value Chain

10.2 Silicon-based Battery Anode Material Upstream Market

10.3 Silicon-based Battery Anode Material Downstream and Clients

10.4 Marketing Channels Analysis

10.4.1 Marketing Channels

10.4.2 Silicon-based Battery Anode Material Distributors and Sales Agents in Global

11 CONCLUSION

12 APPENDIX

12.1 Note

12.2 Examples of Clients

12.3 Disclaimer

List Of Tables

LIST OF TABLES

Table 1. Key Players of Silicon-based Battery Anode Material in Global Market

Table 2. Top Silicon-based Battery Anode Material Players in Global Market, Ranking by Revenue (2021)

Table 3. Global Silicon-based Battery Anode Material Revenue by Companies, (US\$, Mn), 2017-2022

Table 4. Global Silicon-based Battery Anode Material Revenue Share by Companies, 2017-2022

Table 5. Global Silicon-based Battery Anode Material Sales by Companies, (Tons), 2017-2022

Table 6. Global Silicon-based Battery Anode Material Sales Share by Companies, 2017-2022

Table 7. Key Manufacturers Silicon-based Battery Anode Material Price (2017-2022) & (US\$/Ton)

Table 8. Global Manufacturers Silicon-based Battery Anode Material Product Type

Table 9. List of Global Tier 1 Silicon-based Battery Anode Material Companies, Revenue (US\$, Mn) in 2021 and Market Share

Table 10. List of Global Tier 2 and Tier 3 Silicon-based Battery Anode Material Companies, Revenue (US\$, Mn) in 2021 and Market Share

Table 11. By Type – Global Silicon-based Battery Anode Material Revenue, (US\$, Mn), 2021 & 2028

Table 12. By Type - Global Silicon-based Battery Anode Material Revenue (US\$, Mn), 2017-2022

Table 13. By Type - Global Silicon-based Battery Anode Material Revenue (US\$, Mn), 2023-2028

Table 14. By Type - Global Silicon-based Battery Anode Material Sales (Tons), 2017-2022

Table 15. By Type - Global Silicon-based Battery Anode Material Sales (Tons), 2023-2028

Table 16. By Application – Global Silicon-based Battery Anode Material Revenue, (US\$, Mn), 2021 & 2028

Table 17. By Application - Global Silicon-based Battery Anode Material Revenue (US\$, Mn), 2017-2022

Table 18. By Application - Global Silicon-based Battery Anode Material Revenue (US\$, Mn), 2023-2028

Table 19. By Application - Global Silicon-based Battery Anode Material Sales (Tons),

2017-2022

Table 20. By Application - Global Silicon-based Battery Anode Material Sales (Tons), 2023-2028

Table 21. By Region – Global Silicon-based Battery Anode Material Revenue, (US\$, Mn), 2021 VS 2028

Table 22. By Region - Global Silicon-based Battery Anode Material Revenue (US\$, Mn), 2017-2022

Table 23. By Region - Global Silicon-based Battery Anode Material Revenue (US\$, Mn), 2023-2028

Table 24. By Region - Global Silicon-based Battery Anode Material Sales (Tons), 2017-2022

Table 25. By Region - Global Silicon-based Battery Anode Material Sales (Tons), 2023-2028

Table 26. By Country - North America Silicon-based Battery Anode Material Revenue, (US\$, Mn), 2017-2022

Table 27. By Country - North America Silicon-based Battery Anode Material Revenue, (US\$, Mn), 2023-2028

Table 28. By Country - North America Silicon-based Battery Anode Material Sales, (Tons), 2017-2022

Table 29. By Country - North America Silicon-based Battery Anode Material Sales, (Tons), 2023-2028

Table 30. By Country - Europe Silicon-based Battery Anode Material Revenue, (US\$, Mn), 2017-2022

Table 31. By Country - Europe Silicon-based Battery Anode Material Revenue, (US\$, Mn), 2023-2028

Table 32. By Country - Europe Silicon-based Battery Anode Material Sales, (Tons), 2017-2022

Table 33. By Country - Europe Silicon-based Battery Anode Material Sales, (Tons), 2023-2028

Table 34. By Region - Asia Silicon-based Battery Anode Material Revenue, (US\$, Mn), 2017-2022

Table 35. By Region - Asia Silicon-based Battery Anode Material Revenue, (US\$, Mn), 2023-2028

Table 36. By Region - Asia Silicon-based Battery Anode Material Sales, (Tons), 2017-2022

Table 37. By Region - Asia Silicon-based Battery Anode Material Sales, (Tons), 2023-2028

Table 38. By Country - South America Silicon-based Battery Anode Material Revenue, (US\$, Mn), 2017-2022

Table 39. By Country - South America Silicon-based Battery Anode Material Revenue, (US\$, Mn), 2023-2028

Table 40. By Country - South America Silicon-based Battery Anode Material Sales, (Tons), 2017-2022

Table 41. By Country - South America Silicon-based Battery Anode Material Sales, (Tons), 2023-2028

Table 42. By Country - Middle East & Africa Silicon-based Battery Anode Material Revenue, (US\$, Mn), 2017-2022

Table 43. By Country - Middle East & Africa Silicon-based Battery Anode Material Revenue, (US\$, Mn), 2023-2028

Table 44. By Country - Middle East & Africa Silicon-based Battery Anode Material Sales, (Tons), 2017-2022

Table 45. By Country - Middle East & Africa Silicon-based Battery Anode Material Sales, (Tons), 2023-2028

Table 46. BTR Corporate Summary

Table 47. BTR Silicon-based Battery Anode Material Product Offerings

Table 48. BTR Silicon-based Battery Anode Material Sales (Tons), Revenue (US\$, Mn) and Average Price (US\$/Ton) (2017-2022)

Table 49. Shin-Etsu Chemical Corporate Summary

Table 50. Shin-Etsu Chemical Silicon-based Battery Anode Material Product Offerings

Table 51. Shin-Etsu Chemical Silicon-based Battery Anode Material Sales (Tons), Revenue (US\$, Mn) and Average Price (US\$/Ton) (2017-2022)

Table 52. Daejoo Electronic Materials Corporate Summary

Table 53. Daejoo Electronic Materials Silicon-based Battery Anode Material Product Offerings

Table 54. Daejoo Electronic Materials Silicon-based Battery Anode Material Sales (Tons), Revenue (US\$, Mn) and Average Price (US\$/Ton) (2017-2022)

Table 55. Shanshan Corporation Corporate Summary

Table 56. Shanshan Corporation Silicon-based Battery Anode Material Product Offerings

Table 57. Shanshan Corporation Silicon-based Battery Anode Material Sales (Tons), Revenue (US\$, Mn) and Average Price (US\$/Ton) (2017-2022)

Table 58. Jiangxi Zhengtuo Energy Corporate Summary

Table 59. Jiangxi Zhengtuo Energy Silicon-based Battery Anode Material Product Offerings

Table 60. Jiangxi Zhengtuo Energy Silicon-based Battery Anode Material Sales (Tons), Revenue (US\$, Mn) and Average Price (US\$/Ton) (2017-2022)

Table 61. Posco Chemical Corporate Summary

Table 62. Posco Chemical Silicon-based Battery Anode Material Product Offerings

Table 63. Posco Chemical Silicon-based Battery Anode Material Sales (Tons), Revenue (US\$, Mn) and Average Price (US\$/Ton) (2017-2022)

Table 64. Showa Denko Corporate Summary

Table 65. Showa Denko Silicon-based Battery Anode Material Product Offerings

Table 66. Showa Denko Silicon-based Battery Anode Material Sales (Tons), Revenue (US\$, Mn) and Average Price (US\$/Ton) (2017-2022)

Table 67. Chengdu Guibao Corporate Summary

Table 68. Chengdu Guibao Silicon-based Battery Anode Material Product Offerings

Table 69. Chengdu Guibao Silicon-based Battery Anode Material Sales (Tons), Revenue (US\$, Mn) and Average Price (US\$/Ton) (2017-2022)

Table 70. Shida Shenghua Corporate Summary

Table 71. Shida Shenghua Silicon-based Battery Anode Material Product Offerings

Table 72. Shida Shenghua Silicon-based Battery Anode Material Sales (Tons), Revenue (US\$, Mn) and Average Price (US\$/Ton) (2017-2022)

Table 73. Shanghai Putailai (Jiangxi Zichen) Corporate Summary

Table 74. Shanghai Putailai (Jiangxi Zichen) Silicon-based Battery Anode Material Product Offerings

Table 75. Shanghai Putailai (Jiangxi Zichen) Silicon-based Battery Anode Material Sales (Tons), Revenue (US\$, Mn) and Average Price (US\$/Ton) (2017-2022)

Table 76. Hunan Zhongke Electric (Shinzoom) Corporate Summary

Table 77. Hunan Zhongke Electric (Shinzoom) Silicon-based Battery Anode Material Product Offerings

Table 78. Hunan Zhongke Electric (Shinzoom) Silicon-based Battery Anode Material Sales (Tons), Revenue (US\$, Mn) and Average Price (US\$/Ton) (2017-2022)

Table 79. Shenzhen XFH Corporate Summary

Table 80. Shenzhen XFH Silicon-based Battery Anode Material Product Offerings

Table 81. Shenzhen XFH Silicon-based Battery Anode Material Sales (Tons), Revenue (US\$, Mn) and Average Price (US\$/Ton) (2017-2022)

Table 82. iAmetal Corporate Summary

Table 83. iAmetal Silicon-based Battery Anode Material Product Offerings

Table 84. iAmetal Silicon-based Battery Anode Material Sales (Tons), Revenue (US\$, Mn) and Average Price (US\$/Ton) (2017-2022)

Table 85. IOPSILION Corporate Summary

Table 86. IOPSILION Silicon-based Battery Anode Material Product Offerings

Table 87. IOPSILION Silicon-based Battery Anode Material Sales (Tons), Revenue (US\$, Mn) and Average Price (US\$/Ton) (2017-2022)

Table 88. Guoxuan High-Tech Corporate Summary

Table 89. Guoxuan High-Tech Silicon-based Battery Anode Material Product Offerings

Table 90. Guoxuan High-Tech Silicon-based Battery Anode Material Sales (Tons),

Revenue (US\$, Mn) and Average Price (US\$/Ton) (2017-2022)

Table 91. Group14 Corporate Summary

Table 92. Group14 Silicon-based Battery Anode Material Product Offerings

Table 93. Group14 Silicon-based Battery Anode Material Sales (Tons), Revenue (US\$, Mn) and Average Price (US\$/Ton) (2017-2022)

Table 94. Nexeon Corporate Summary

Table 95. Nexeon Silicon-based Battery Anode Material Product Offerings

Table 96. Nexeon Silicon-based Battery Anode Material Sales (Tons), Revenue (US\$, Mn) and Average Price (US\$/Ton) (2017-2022)

Table 97. Silicon-based Battery Anode Material Production Capacity (Tons) of Key Manufacturers in Global Market, 2020-2022 (Tons)

Table 98. Global Silicon-based Battery Anode Material Capacity Market Share of Key Manufacturers, 2020-2022

Table 99. Global Silicon-based Battery Anode Material Production by Region, 2017-2022 (Tons)

Table 100. Global Silicon-based Battery Anode Material Production by Region, 2023-2028 (Tons)

Table 101. Silicon-based Battery Anode Material Market Opportunities & Trends in Global Market

Table 102. Silicon-based Battery Anode Material Market Drivers in Global Market

Table 103. Silicon-based Battery Anode Material Market Restraints in Global Market

Table 104. Silicon-based Battery Anode Material Raw Materials

Table 105. Silicon-based Battery Anode Material Raw Materials Suppliers in Global Market

Table 106. Typical Silicon-based Battery Anode Material Downstream

Table 107. Silicon-based Battery Anode Material Downstream Clients in Global Market

Table 108. Silicon-based Battery Anode Material Distributors and Sales Agents in Global Market

List Of Figures

LIST OF FIGURES

- Figure 1. Silicon-based Battery Anode Material Segment by Type
- Figure 2. Silicon-based Battery Anode Material Segment by Application
- Figure 3. Global Silicon-based Battery Anode Material Market Overview: 2021
- Figure 4. Key Caveats
- Figure 5. Global Silicon-based Battery Anode Material Market Size: 2021 VS 2028 (US\$, Mn)
- Figure 6. Global Silicon-based Battery Anode Material Revenue, 2017-2028 (US\$, Mn)
- Figure 7. Silicon-based Battery Anode Material Sales in Global Market: 2017-2028 (Tons)
- Figure 8. The Top 3 and 5 Players Market Share by Silicon-based Battery Anode Material Revenue in 2021
- Figure 9. By Type - Global Silicon-based Battery Anode Material Sales Market Share, 2017-2028
- Figure 10. By Type - Global Silicon-based Battery Anode Material Revenue Market Share, 2017-2028
- Figure 11. By Type - Global Silicon-based Battery Anode Material Price (US\$/Ton), 2017-2028
- Figure 12. By Application - Global Silicon-based Battery Anode Material Sales Market Share, 2017-2028
- Figure 13. By Application - Global Silicon-based Battery Anode Material Revenue Market Share, 2017-2028
- Figure 14. By Application - Global Silicon-based Battery Anode Material Price (US\$/Ton), 2017-2028
- Figure 15. By Region - Global Silicon-based Battery Anode Material Sales Market Share, 2017-2028
- Figure 16. By Region - Global Silicon-based Battery Anode Material Revenue Market Share, 2017-2028
- Figure 17. By Country - North America Silicon-based Battery Anode Material Revenue Market Share, 2017-2028
- Figure 18. By Country - North America Silicon-based Battery Anode Material Sales Market Share, 2017-2028
- Figure 19. US Silicon-based Battery Anode Material Revenue, (US\$, Mn), 2017-2028
- Figure 20. Canada Silicon-based Battery Anode Material Revenue, (US\$, Mn), 2017-2028
- Figure 21. Mexico Silicon-based Battery Anode Material Revenue, (US\$, Mn),

2017-2028

Figure 22. By Country - Europe Silicon-based Battery Anode Material Revenue Market Share, 2017-2028

Figure 23. By Country - Europe Silicon-based Battery Anode Material Sales Market Share, 2017-2028

Figure 24. Germany Silicon-based Battery Anode Material Revenue, (US\$, Mn), 2017-2028

Figure 25. France Silicon-based Battery Anode Material Revenue, (US\$, Mn), 2017-2028

Figure 26. U.K. Silicon-based Battery Anode Material Revenue, (US\$, Mn), 2017-2028

Figure 27. Italy Silicon-based Battery Anode Material Revenue, (US\$, Mn), 2017-2028

Figure 28. Russia Silicon-based Battery Anode Material Revenue, (US\$, Mn), 2017-2028

Figure 29. Nordic Countries Silicon-based Battery Anode Material Revenue, (US\$, Mn), 2017-2028

Figure 30. Benelux Silicon-based Battery Anode Material Revenue, (US\$, Mn), 2017-2028

Figure 31. By Region - Asia Silicon-based Battery Anode Material Revenue Market Share, 2017-2028

Figure 32. By Region - Asia Silicon-based Battery Anode Material Sales Market Share, 2017-2028

Figure 33. China Silicon-based Battery Anode Material Revenue, (US\$, Mn), 2017-2028

Figure 34. Japan Silicon-based Battery Anode Material Revenue, (US\$, Mn), 2017-2028

Figure 35. South Korea Silicon-based Battery Anode Material Revenue, (US\$, Mn), 2017-2028

Figure 36. Southeast Asia Silicon-based Battery Anode Material Revenue, (US\$, Mn), 2017-2028

Figure 37. India Silicon-based Battery Anode Material Revenue, (US\$, Mn), 2017-2028

Figure 38. By Country - South America Silicon-based Battery Anode Material Revenue Market Share, 2017-2028

Figure 39. By Country - South America Silicon-based Battery Anode Material Sales Market Share, 2017-2028

Figure 40. Brazil Silicon-based Battery Anode Material Revenue, (US\$, Mn), 2017-2028

Figure 41. Argentina Silicon-based Battery Anode Material Revenue, (US\$, Mn), 2017-2028

Figure 42. By Country - Middle East & Africa Silicon-based Battery Anode Material Revenue Market Share, 2017-2028

Figure 43. By Country - Middle East & Africa Silicon-based Battery Anode Material Sales Market Share, 2017-2028

Figure 44. Turkey Silicon-based Battery Anode Material Revenue, (US\$, Mn), 2017-2028

Figure 45. Israel Silicon-based Battery Anode Material Revenue, (US\$, Mn), 2017-2028

Figure 46. Saudi Arabia Silicon-based Battery Anode Material Revenue, (US\$, Mn), 2017-2028

Figure 47. UAE Silicon-based Battery Anode Material Revenue, (US\$, Mn), 2017-2028

Figure 48. Global Silicon-based Battery Anode Material Production Capacity (Tons), 2017-2028

Figure 49. The Percentage of Production Silicon-based Battery Anode Material by Region, 2021 VS 2028

Figure 50. Silicon-based Battery Anode Material Industry Value Chain

Figure 51. Marketing Channels

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