

# Global Sulfide Solid Electrolyte Material Market Growth 2024-2030

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## Abstracts

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Sulfide solid electrolyte materials are a type of electrolyte composed of sulfide compounds with high ionic conductivity, excellent electrochemical stability and good mechanical properties. These materials can replace traditional liquid electrolytes in solid-state batteries by providing a fast migration path for lithium ions or other ions in the solid structure, significantly improving the energy density, safety and service life of the battery. Common sulfide solid electrolyte materials include  $\text{Li}_{10}\text{GeP}_2\text{S}_{12}$  (LGPS),  $\text{Li}_7\text{P}_3\text{S}_{11}$ ,  $\text{Li}_6\text{PS}_5\text{Cl}$ , etc., which are widely used in electric vehicles, portable electronic devices, renewable energy storage and other fields.

The global Sulfide Solid Electrolyte Material market size is projected to grow from US\$ million in 2024 to US\$ million in 2030; it is expected to grow at a CAGR of % from 2024 to 2030.

LP Information, Inc. (LPI) ' newest research report, the "Sulfide Solid Electrolyte Material Industry Forecast" looks at past sales and reviews total world Sulfide Solid Electrolyte Material sales in 2023, providing a comprehensive analysis by region and market sector of projected Sulfide Solid Electrolyte Material sales for 2024 through 2030. With Sulfide Solid Electrolyte Material sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US\$ millions of the world Sulfide Solid Electrolyte Material industry.

This Insight Report provides a comprehensive analysis of the global Sulfide Solid Electrolyte Material landscape and highlights key trends related to product segmentation, company formation, revenue, and market share, latest development, and

M&A activity. This report also analyzes the strategies of leading global companies with a focus on Sulfide Solid Electrolyte Material portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms' unique position in an accelerating global Sulfide Solid Electrolyte Material market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Sulfide Solid Electrolyte Material and breaks down the forecast by Type, by Application, geography, and market size to highlight emerging pockets of opportunity. With a transparent methodology based on hundreds of bottom-up qualitative and quantitative market inputs, this study forecast offers a highly nuanced view of the current state and future trajectory in the global Sulfide Solid Electrolyte Material.

Sulfide solid electrolyte materials represent a major breakthrough in next-generation battery technology. Their high ionic conductivity and excellent electrochemical stability give them significant advantages in improving battery safety and energy density. However, these materials still face challenges in practical applications, such as mechanical strength of the materials, interfacial stability, and large-scale production costs. Nevertheless, with the advancement of technology and the optimization of manufacturing processes, sulfide solid electrolyte materials are expected to be widely used in electric vehicles, renewable energy storage, portable electronic devices and other fields in the future, promoting the innovation of energy storage technology.

This report presents a comprehensive overview, market shares, and growth opportunities of Sulfide Solid Electrolyte Material market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

Sulphides

Thiophosphate

Titanium sulfide

Others

### Segmentation by Application:

Electric Vehicles

Electronic Devices

Aerospace

Medical Devices

Others

### This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

APAC

China

Japan

Korea

Southeast Asia

India

Australia

## Europe

Germany

France

UK

Italy

Russia

## Middle East & Africa

Egypt

South Africa

Israel

Turkey

GCC Countries

The below companies that are profiled have been selected based on inputs gathered from primary experts and analysing the company's coverage, product portfolio, its market penetration.

NGK Insulators

Ohara

Nippon Chemical Industrial

Mitsui Mining & Smelting

Soken Chemical & Engineering

Taiyo Yuden

Solid Power

QuantumScape

### Key Questions Addressed in this Report

What is the 10-year outlook for the global Sulfide Solid Electrolyte Material market?

What factors are driving Sulfide Solid Electrolyte Material market growth, globally and by region?

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

How do Sulfide Solid Electrolyte Material market opportunities vary by end market size?

How does Sulfide Solid Electrolyte Material break out by Type, by Application?

## Contents

### 1 SCOPE OF THE REPORT

- 1.1 Market Introduction
- 1.2 Years Considered
- 1.3 Research Objectives
- 1.4 Market Research Methodology
- 1.5 Research Process and Data Source
- 1.6 Economic Indicators
- 1.7 Currency Considered
- 1.8 Market Estimation Caveats

### 2 EXECUTIVE SUMMARY

- 2.1 World Market Overview
  - 2.1.1 Global Sulfide Solid Electrolyte Material Annual Sales 2019-2030
  - 2.1.2 World Current & Future Analysis for Sulfide Solid Electrolyte Material by Geographic Region, 2019, 2023 & 2030
  - 2.1.3 World Current & Future Analysis for Sulfide Solid Electrolyte Material by Country/Region, 2019, 2023 & 2030
- 2.2 Sulfide Solid Electrolyte Material Segment by Type
  - 2.2.1 Sulphides
  - 2.2.2 Thiophosphate
  - 2.2.3 Titanium sulfide
  - 2.2.4 Others
- 2.3 Sulfide Solid Electrolyte Material Sales by Type
  - 2.3.1 Global Sulfide Solid Electrolyte Material Sales Market Share by Type (2019-2024)
  - 2.3.2 Global Sulfide Solid Electrolyte Material Revenue and Market Share by Type (2019-2024)
  - 2.3.3 Global Sulfide Solid Electrolyte Material Sale Price by Type (2019-2024)
- 2.4 Sulfide Solid Electrolyte Material Segment by Application
  - 2.4.1 Electric Vehicles
  - 2.4.2 Electronic Devices
  - 2.4.3 Aerospace
  - 2.4.4 Medical Devices
  - 2.4.5 Others
- 2.5 Sulfide Solid Electrolyte Material Sales by Application

2.5.1 Global Sulfide Solid Electrolyte Material Sale Market Share by Application (2019-2024)

2.5.2 Global Sulfide Solid Electrolyte Material Revenue and Market Share by Application (2019-2024)

2.5.3 Global Sulfide Solid Electrolyte Material Sale Price by Application (2019-2024)

### **3 GLOBAL BY COMPANY**

3.1 Global Sulfide Solid Electrolyte Material Breakdown Data by Company

3.1.1 Global Sulfide Solid Electrolyte Material Annual Sales by Company (2019-2024)

3.1.2 Global Sulfide Solid Electrolyte Material Sales Market Share by Company (2019-2024)

3.2 Global Sulfide Solid Electrolyte Material Annual Revenue by Company (2019-2024)

3.2.1 Global Sulfide Solid Electrolyte Material Revenue by Company (2019-2024)

3.2.2 Global Sulfide Solid Electrolyte Material Revenue Market Share by Company (2019-2024)

3.3 Global Sulfide Solid Electrolyte Material Sale Price by Company

3.4 Key Manufacturers Sulfide Solid Electrolyte Material Producing Area Distribution, Sales Area, Product Type

3.4.1 Key Manufacturers Sulfide Solid Electrolyte Material Product Location Distribution

3.4.2 Players Sulfide Solid Electrolyte Material Products Offered

3.5 Market Concentration Rate Analysis

3.5.1 Competition Landscape Analysis

3.5.2 Concentration Ratio (CR3, CR5 and CR10) & (2019-2024)

3.6 New Products and Potential Entrants

3.7 Market M&A Activity & Strategy

### **4 WORLD HISTORIC REVIEW FOR SULFIDE SOLID ELECTROLYTE MATERIAL BY GEOGRAPHIC REGION**

4.1 World Historic Sulfide Solid Electrolyte Material Market Size by Geographic Region (2019-2024)

4.1.1 Global Sulfide Solid Electrolyte Material Annual Sales by Geographic Region (2019-2024)

4.1.2 Global Sulfide Solid Electrolyte Material Annual Revenue by Geographic Region (2019-2024)

4.2 World Historic Sulfide Solid Electrolyte Material Market Size by Country/Region (2019-2024)

4.2.1 Global Sulfide Solid Electrolyte Material Annual Sales by Country/Region (2019-2024)

4.2.2 Global Sulfide Solid Electrolyte Material Annual Revenue by Country/Region (2019-2024)

4.3 Americas Sulfide Solid Electrolyte Material Sales Growth

4.4 APAC Sulfide Solid Electrolyte Material Sales Growth

4.5 Europe Sulfide Solid Electrolyte Material Sales Growth

4.6 Middle East & Africa Sulfide Solid Electrolyte Material Sales Growth

## **5 AMERICAS**

5.1 Americas Sulfide Solid Electrolyte Material Sales by Country

5.1.1 Americas Sulfide Solid Electrolyte Material Sales by Country (2019-2024)

5.1.2 Americas Sulfide Solid Electrolyte Material Revenue by Country (2019-2024)

5.2 Americas Sulfide Solid Electrolyte Material Sales by Type (2019-2024)

5.3 Americas Sulfide Solid Electrolyte Material Sales by Application (2019-2024)

5.4 United States

5.5 Canada

5.6 Mexico

5.7 Brazil

## **6 APAC**

6.1 APAC Sulfide Solid Electrolyte Material Sales by Region

6.1.1 APAC Sulfide Solid Electrolyte Material Sales by Region (2019-2024)

6.1.2 APAC Sulfide Solid Electrolyte Material Revenue by Region (2019-2024)

6.2 APAC Sulfide Solid Electrolyte Material Sales by Type (2019-2024)

6.3 APAC Sulfide Solid Electrolyte Material Sales by Application (2019-2024)

6.4 China

6.5 Japan

6.6 South Korea

6.7 Southeast Asia

6.8 India

6.9 Australia

6.10 China Taiwan

## **7 EUROPE**

7.1 Europe Sulfide Solid Electrolyte Material by Country

- 7.1.1 Europe Sulfide Solid Electrolyte Material Sales by Country (2019-2024)
- 7.1.2 Europe Sulfide Solid Electrolyte Material Revenue by Country (2019-2024)
- 7.2 Europe Sulfide Solid Electrolyte Material Sales by Type (2019-2024)
- 7.3 Europe Sulfide Solid Electrolyte Material Sales by Application (2019-2024)
- 7.4 Germany
- 7.5 France
- 7.6 UK
- 7.7 Italy
- 7.8 Russia

## **8 MIDDLE EAST & AFRICA**

- 8.1 Middle East & Africa Sulfide Solid Electrolyte Material by Country
  - 8.1.1 Middle East & Africa Sulfide Solid Electrolyte Material Sales by Country (2019-2024)
  - 8.1.2 Middle East & Africa Sulfide Solid Electrolyte Material Revenue by Country (2019-2024)
- 8.2 Middle East & Africa Sulfide Solid Electrolyte Material Sales by Type (2019-2024)
- 8.3 Middle East & Africa Sulfide Solid Electrolyte Material Sales by Application (2019-2024)
- 8.4 Egypt
- 8.5 South Africa
- 8.6 Israel
- 8.7 Turkey
- 8.8 GCC Countries

## **9 MARKET DRIVERS, CHALLENGES AND TRENDS**

- 9.1 Market Drivers & Growth Opportunities
- 9.2 Market Challenges & Risks
- 9.3 Industry Trends

## **10 MANUFACTURING COST STRUCTURE ANALYSIS**

- 10.1 Raw Material and Suppliers
- 10.2 Manufacturing Cost Structure Analysis of Sulfide Solid Electrolyte Material
- 10.3 Manufacturing Process Analysis of Sulfide Solid Electrolyte Material
- 10.4 Industry Chain Structure of Sulfide Solid Electrolyte Material

## **11 MARKETING, DISTRIBUTORS AND CUSTOMER**

### **11.1 Sales Channel**

#### **11.1.1 Direct Channels**

#### **11.1.2 Indirect Channels**

### **11.2 Sulfide Solid Electrolyte Material Distributors**

### **11.3 Sulfide Solid Electrolyte Material Customer**

## **12 WORLD FORECAST REVIEW FOR SULFIDE SOLID ELECTROLYTE MATERIAL BY GEOGRAPHIC REGION**

### **12.1 Global Sulfide Solid Electrolyte Material Market Size Forecast by Region**

#### **12.1.1 Global Sulfide Solid Electrolyte Material Forecast by Region (2025-2030)**

#### **12.1.2 Global Sulfide Solid Electrolyte Material Annual Revenue Forecast by Region (2025-2030)**

### **12.2 Americas Forecast by Country (2025-2030)**

### **12.3 APAC Forecast by Region (2025-2030)**

### **12.4 Europe Forecast by Country (2025-2030)**

### **12.5 Middle East & Africa Forecast by Country (2025-2030)**

### **12.6 Global Sulfide Solid Electrolyte Material Forecast by Type (2025-2030)**

### **12.7 Global Sulfide Solid Electrolyte Material Forecast by Application (2025-2030)**

## **13 KEY PLAYERS ANALYSIS**

### **13.1 NGK Insulators**

#### **13.1.1 NGK Insulators Company Information**

#### **13.1.2 NGK Insulators Sulfide Solid Electrolyte Material Product Portfolios and Specifications**

#### **13.1.3 NGK Insulators Sulfide Solid Electrolyte Material Sales, Revenue, Price and Gross Margin (2019-2024)**

#### **13.1.4 NGK Insulators Main Business Overview**

#### **13.1.5 NGK Insulators Latest Developments**

### **13.2 Ohara**

#### **13.2.1 Ohara Company Information**

#### **13.2.2 Ohara Sulfide Solid Electrolyte Material Product Portfolios and Specifications**

#### **13.2.3 Ohara Sulfide Solid Electrolyte Material Sales, Revenue, Price and Gross Margin (2019-2024)**

#### **13.2.4 Ohara Main Business Overview**

#### **13.2.5 Ohara Latest Developments**

### 13.3 Nippon Chemical Industrial

#### 13.3.1 Nippon Chemical Industrial Company Information

#### 13.3.2 Nippon Chemical Industrial Sulfide Solid Electrolyte Material Product Portfolios and Specifications

#### 13.3.3 Nippon Chemical Industrial Sulfide Solid Electrolyte Material Sales, Revenue, Price and Gross Margin (2019-2024)

#### 13.3.4 Nippon Chemical Industrial Main Business Overview

#### 13.3.5 Nippon Chemical Industrial Latest Developments

### 13.4 Mitsui Mining & Smelting

#### 13.4.1 Mitsui Mining & Smelting Company Information

#### 13.4.2 Mitsui Mining & Smelting Sulfide Solid Electrolyte Material Product Portfolios and Specifications

#### 13.4.3 Mitsui Mining & Smelting Sulfide Solid Electrolyte Material Sales, Revenue, Price and Gross Margin (2019-2024)

#### 13.4.4 Mitsui Mining & Smelting Main Business Overview

#### 13.4.5 Mitsui Mining & Smelting Latest Developments

### 13.5 Soken Chemical & Engineering

#### 13.5.1 Soken Chemical & Engineering Company Information

#### 13.5.2 Soken Chemical & Engineering Sulfide Solid Electrolyte Material Product Portfolios and Specifications

#### 13.5.3 Soken Chemical & Engineering Sulfide Solid Electrolyte Material Sales, Revenue, Price and Gross Margin (2019-2024)

#### 13.5.4 Soken Chemical & Engineering Main Business Overview

#### 13.5.5 Soken Chemical & Engineering Latest Developments

### 13.6 Taiyo Yuden

#### 13.6.1 Taiyo Yuden Company Information

#### 13.6.2 Taiyo Yuden Sulfide Solid Electrolyte Material Product Portfolios and Specifications

#### 13.6.3 Taiyo Yuden Sulfide Solid Electrolyte Material Sales, Revenue, Price and Gross Margin (2019-2024)

#### 13.6.4 Taiyo Yuden Main Business Overview

#### 13.6.5 Taiyo Yuden Latest Developments

### 13.7 Solid Power

#### 13.7.1 Solid Power Company Information

#### 13.7.2 Solid Power Sulfide Solid Electrolyte Material Product Portfolios and Specifications

#### 13.7.3 Solid Power Sulfide Solid Electrolyte Material Sales, Revenue, Price and Gross Margin (2019-2024)

#### 13.7.4 Solid Power Main Business Overview

13.7.5 Solid Power Latest Developments

13.8 QuantumScape

13.8.1 QuantumScape Company Information

13.8.2 QuantumScape Sulfide Solid Electrolyte Material Product Portfolios and Specifications

13.8.3 QuantumScape Sulfide Solid Electrolyte Material Sales, Revenue, Price and Gross Margin (2019-2024)

13.8.4 QuantumScape Main Business Overview

13.8.5 QuantumScape Latest Developments

## **14 RESEARCH FINDINGS AND CONCLUSION**

## List Of Tables

### LIST OF TABLES

Table 1. Sulfide Solid Electrolyte Material Annual Sales CAGR by Geographic Region (2019, 2023 & 2030) & (\$ millions)

Table 2. Sulfide Solid Electrolyte Material Annual Sales CAGR by Country/Region (2019, 2023 & 2030) & (\$ millions)

Table 3. Major Players of Sulphides

Table 4. Major Players of Thiophosphate

Table 5. Major Players of Titanium sulfide

Table 6. Major Players of Others

Table 7. Global Sulfide Solid Electrolyte Material Sales by Type (2019-2024) & (Tons)

Table 8. Global Sulfide Solid Electrolyte Material Sales Market Share by Type (2019-2024)

Table 9. Global Sulfide Solid Electrolyte Material Revenue by Type (2019-2024) & (\$ million)

Table 10. Global Sulfide Solid Electrolyte Material Revenue Market Share by Type (2019-2024)

Table 11. Global Sulfide Solid Electrolyte Material Sale Price by Type (2019-2024) & (US\$/Ton)

Table 12. Global Sulfide Solid Electrolyte Material Sale by Application (2019-2024) & (Tons)

Table 13. Global Sulfide Solid Electrolyte Material Sale Market Share by Application (2019-2024)

Table 14. Global Sulfide Solid Electrolyte Material Revenue by Application (2019-2024) & (\$ million)

Table 15. Global Sulfide Solid Electrolyte Material Revenue Market Share by Application (2019-2024)

Table 16. Global Sulfide Solid Electrolyte Material Sale Price by Application (2019-2024) & (US\$/Ton)

Table 17. Global Sulfide Solid Electrolyte Material Sales by Company (2019-2024) & (Tons)

Table 18. Global Sulfide Solid Electrolyte Material Sales Market Share by Company (2019-2024)

Table 19. Global Sulfide Solid Electrolyte Material Revenue by Company (2019-2024) & (\$ millions)

Table 20. Global Sulfide Solid Electrolyte Material Revenue Market Share by Company (2019-2024)

Table 21. Global Sulfide Solid Electrolyte Material Sale Price by Company (2019-2024) & (US\$/Ton)

Table 22. Key Manufacturers Sulfide Solid Electrolyte Material Producing Area Distribution and Sales Area

Table 23. Players Sulfide Solid Electrolyte Material Products Offered

Table 24. Sulfide Solid Electrolyte Material Concentration Ratio (CR3, CR5 and CR10) & (2019-2024)

Table 25. New Products and Potential Entrants

Table 26. Market M&A Activity & Strategy

Table 27. Global Sulfide Solid Electrolyte Material Sales by Geographic Region (2019-2024) & (Tons)

Table 28. Global Sulfide Solid Electrolyte Material Sales Market Share Geographic Region (2019-2024)

Table 29. Global Sulfide Solid Electrolyte Material Revenue by Geographic Region (2019-2024) & (\$ millions)

Table 30. Global Sulfide Solid Electrolyte Material Revenue Market Share by Geographic Region (2019-2024)

Table 31. Global Sulfide Solid Electrolyte Material Sales by Country/Region (2019-2024) & (Tons)

Table 32. Global Sulfide Solid Electrolyte Material Sales Market Share by Country/Region (2019-2024)

Table 33. Global Sulfide Solid Electrolyte Material Revenue by Country/Region (2019-2024) & (\$ millions)

Table 34. Global Sulfide Solid Electrolyte Material Revenue Market Share by Country/Region (2019-2024)

Table 35. Americas Sulfide Solid Electrolyte Material Sales by Country (2019-2024) & (Tons)

Table 36. Americas Sulfide Solid Electrolyte Material Sales Market Share by Country (2019-2024)

Table 37. Americas Sulfide Solid Electrolyte Material Revenue by Country (2019-2024) & (\$ millions)

Table 38. Americas Sulfide Solid Electrolyte Material Sales by Type (2019-2024) & (Tons)

Table 39. Americas Sulfide Solid Electrolyte Material Sales by Application (2019-2024) & (Tons)

Table 40. APAC Sulfide Solid Electrolyte Material Sales by Region (2019-2024) & (Tons)

Table 41. APAC Sulfide Solid Electrolyte Material Sales Market Share by Region (2019-2024)

Table 42. APAC Sulfide Solid Electrolyte Material Revenue by Region (2019-2024) & (\$ millions)
Table 43. APAC Sulfide Solid Electrolyte Material Sales by Type (2019-2024) & (Tons)
Table 44. APAC Sulfide Solid Electrolyte Material Sales by Application (2019-2024) & (Tons)
Table 45. Europe Sulfide Solid Electrolyte Material Sales by Country (2019-2024) & (Tons)
Table 46. Europe Sulfide Solid Electrolyte Material Revenue by Country (2019-2024) & (\$ millions)
Table 47. Europe Sulfide Solid Electrolyte Material Sales by Type (2019-2024) & (Tons)
Table 48. Europe Sulfide Solid Electrolyte Material Sales by Application (2019-2024) & (Tons)
Table 49. Middle East & Africa Sulfide Solid Electrolyte Material Sales by Country (2019-2024) & (Tons)
Table 50. Middle East & Africa Sulfide Solid Electrolyte Material Revenue Market Share by Country (2019-2024)
Table 51. Middle East & Africa Sulfide Solid Electrolyte Material Sales by Type (2019-2024) & (Tons)
Table 52. Middle East & Africa Sulfide Solid Electrolyte Material Sales by Application (2019-2024) & (Tons)
Table 53. Key Market Drivers & Growth Opportunities of Sulfide Solid Electrolyte Material
Table 54. Key Market Challenges & Risks of Sulfide Solid Electrolyte Material
Table 55. Key Industry Trends of Sulfide Solid Electrolyte Material
Table 56. Sulfide Solid Electrolyte Material Raw Material
Table 57. Key Suppliers of Raw Materials
Table 58. Sulfide Solid Electrolyte Material Distributors List
Table 59. Sulfide Solid Electrolyte Material Customer List
Table 60. Global Sulfide Solid Electrolyte Material Sales Forecast by Region (2025-2030) & (Tons)
Table 61. Global Sulfide Solid Electrolyte Material Revenue Forecast by Region (2025-2030) & (\$ millions)
Table 62. Americas Sulfide Solid Electrolyte Material Sales Forecast by Country (2025-2030) & (Tons)
Table 63. Americas Sulfide Solid Electrolyte Material Annual Revenue Forecast by Country (2025-2030) & (\$ millions)
Table 64. APAC Sulfide Solid Electrolyte Material Sales Forecast by Region (2025-2030) & (Tons)
Table 65. APAC Sulfide Solid Electrolyte Material Annual Revenue Forecast by Region

(2025-2030) & (\$ millions)

Table 66. Europe Sulfide Solid Electrolyte Material Sales Forecast by Country

(2025-2030) & (Tons)

Table 67. Europe Sulfide Solid Electrolyte Material Revenue Forecast by Country

(2025-2030) & (\$ millions)

Table 68. Middle East & Africa Sulfide Solid Electrolyte Material Sales Forecast by Country (2025-2030) & (Tons)

Table 69. Middle East & Africa Sulfide Solid Electrolyte Material Revenue Forecast by Country (2025-2030) & (\$ millions)

Table 70. Global Sulfide Solid Electrolyte Material Sales Forecast by Type (2025-2030) & (Tons)

Table 71. Global Sulfide Solid Electrolyte Material Revenue Forecast by Type (2025-2030) & (\$ millions)

Table 72. Global Sulfide Solid Electrolyte Material Sales Forecast by Application (2025-2030) & (Tons)

Table 73. Global Sulfide Solid Electrolyte Material Revenue Forecast by Application (2025-2030) & (\$ millions)

Table 74. NGK Insulators Basic Information, Sulfide Solid Electrolyte Material Manufacturing Base, Sales Area and Its Competitors

Table 75. NGK Insulators Sulfide Solid Electrolyte Material Product Portfolios and Specifications

Table 76. NGK Insulators Sulfide Solid Electrolyte Material Sales (Tons), Revenue (\$ Million), Price (US\$/Ton) and Gross Margin (2019-2024)

Table 77. NGK Insulators Main Business

Table 78. NGK Insulators Latest Developments

Table 79. Ohara Basic Information, Sulfide Solid Electrolyte Material Manufacturing Base, Sales Area and Its Competitors

Table 80. Ohara Sulfide Solid Electrolyte Material Product Portfolios and Specifications

Table 81. Ohara Sulfide Solid Electrolyte Material Sales (Tons), Revenue (\$ Million), Price (US\$/Ton) and Gross Margin (2019-2024)

Table 82. Ohara Main Business

Table 83. Ohara Latest Developments

Table 84. Nippon Chemical Industrial Basic Information, Sulfide Solid Electrolyte Material Manufacturing Base, Sales Area and Its Competitors

Table 85. Nippon Chemical Industrial Sulfide Solid Electrolyte Material Product Portfolios and Specifications

Table 86. Nippon Chemical Industrial Sulfide Solid Electrolyte Material Sales (Tons), Revenue (\$ Million), Price (US\$/Ton) and Gross Margin (2019-2024)

Table 87. Nippon Chemical Industrial Main Business

Table 88. Nippon Chemical Industrial Latest Developments
Table 89. Mitsui Mining & Smelting Basic Information, Sulfide Solid Electrolyte Material Manufacturing Base, Sales Area and Its Competitors
Table 90. Mitsui Mining & Smelting Sulfide Solid Electrolyte Material Product Portfolios and Specifications
Table 91. Mitsui Mining & Smelting Sulfide Solid Electrolyte Material Sales (Tons), Revenue (\$ Million), Price (US\$/Ton) and Gross Margin (2019-2024)
Table 92. Mitsui Mining & Smelting Main Business
Table 93. Mitsui Mining & Smelting Latest Developments
Table 94. Soken Chemical & Engineering Basic Information, Sulfide Solid Electrolyte Material Manufacturing Base, Sales Area and Its Competitors
Table 95. Soken Chemical & Engineering Sulfide Solid Electrolyte Material Product Portfolios and Specifications
Table 96. Soken Chemical & Engineering Sulfide Solid Electrolyte Material Sales (Tons), Revenue (\$ Million), Price (US\$/Ton) and Gross Margin (2019-2024)
Table 97. Soken Chemical & Engineering Main Business
Table 98. Soken Chemical & Engineering Latest Developments
Table 99. Taiyo Yuden Basic Information, Sulfide Solid Electrolyte Material Manufacturing Base, Sales Area and Its Competitors
Table 100. Taiyo Yuden Sulfide Solid Electrolyte Material Product Portfolios and Specifications
Table 101. Taiyo Yuden Sulfide Solid Electrolyte Material Sales (Tons), Revenue (\$ Million), Price (US\$/Ton) and Gross Margin (2019-2024)
Table 102. Taiyo Yuden Main Business
Table 103. Taiyo Yuden Latest Developments
Table 104. Solid Power Basic Information, Sulfide Solid Electrolyte Material Manufacturing Base, Sales Area and Its Competitors
Table 105. Solid Power Sulfide Solid Electrolyte Material Product Portfolios and Specifications
Table 106. Solid Power Sulfide Solid Electrolyte Material Sales (Tons), Revenue (\$ Million), Price (US\$/Ton) and Gross Margin (2019-2024)
Table 107. Solid Power Main Business
Table 108. Solid Power Latest Developments
Table 109. QuantumScape Basic Information, Sulfide Solid Electrolyte Material Manufacturing Base, Sales Area and Its Competitors
Table 110. QuantumScape Sulfide Solid Electrolyte Material Product Portfolios and Specifications
Table 111. QuantumScape Sulfide Solid Electrolyte Material Sales (Tons), Revenue (\$ Million), Price (US\$/Ton) and Gross Margin (2019-2024)

Table 112. QuantumScape Main Business

Table 113. QuantumScape Latest Developments

## List Of Figures

### LIST OF FIGURES

- Figure 1. Picture of Sulfide Solid Electrolyte Material
- Figure 2. Sulfide Solid Electrolyte Material Report Years Considered
- Figure 3. Research Objectives
- Figure 4. Research Methodology
- Figure 5. Research Process and Data Source
- Figure 6. Global Sulfide Solid Electrolyte Material Sales Growth Rate 2019-2030 (Tons)
- Figure 7. Global Sulfide Solid Electrolyte Material Revenue Growth Rate 2019-2030 (\$ millions)
- Figure 8. Sulfide Solid Electrolyte Material Sales by Geographic Region (2019, 2023 & 2030) & (\$ millions)
- Figure 9. Sulfide Solid Electrolyte Material Sales Market Share by Country/Region (2023)
- Figure 10. Sulfide Solid Electrolyte Material Sales Market Share by Country/Region (2019, 2023 & 2030)
- Figure 11. Product Picture of Sulphides
- Figure 12. Product Picture of Thiophosphate
- Figure 13. Product Picture of Titanium sulfide
- Figure 14. Product Picture of Others
- Figure 15. Global Sulfide Solid Electrolyte Material Sales Market Share by Type in 2023
- Figure 16. Global Sulfide Solid Electrolyte Material Revenue Market Share by Type (2019-2024)
- Figure 17. Sulfide Solid Electrolyte Material Consumed in Electric Vehicles
- Figure 18. Global Sulfide Solid Electrolyte Material Market: Electric Vehicles (2019-2024) & (Tons)
- Figure 19. Sulfide Solid Electrolyte Material Consumed in Electronic Devices
- Figure 20. Global Sulfide Solid Electrolyte Material Market: Electronic Devices (2019-2024) & (Tons)
- Figure 21. Sulfide Solid Electrolyte Material Consumed in Aerospace
- Figure 22. Global Sulfide Solid Electrolyte Material Market: Aerospace (2019-2024) & (Tons)
- Figure 23. Sulfide Solid Electrolyte Material Consumed in Medical Devices
- Figure 24. Global Sulfide Solid Electrolyte Material Market: Medical Devices (2019-2024) & (Tons)
- Figure 25. Sulfide Solid Electrolyte Material Consumed in Others
- Figure 26. Global Sulfide Solid Electrolyte Material Market: Others (2019-2024) &

(Tons)

Figure 27. Global Sulfide Solid Electrolyte Material Sale Market Share by Application (2023)

Figure 28. Global Sulfide Solid Electrolyte Material Revenue Market Share by Application in 2023

Figure 29. Sulfide Solid Electrolyte Material Sales by Company in 2023 (Tons)

Figure 30. Global Sulfide Solid Electrolyte Material Sales Market Share by Company in 2023

Figure 31. Sulfide Solid Electrolyte Material Revenue by Company in 2023 (\$ millions)

Figure 32. Global Sulfide Solid Electrolyte Material Revenue Market Share by Company in 2023

Figure 33. Global Sulfide Solid Electrolyte Material Sales Market Share by Geographic Region (2019-2024)

Figure 34. Global Sulfide Solid Electrolyte Material Revenue Market Share by Geographic Region in 2023

Figure 35. Americas Sulfide Solid Electrolyte Material Sales 2019-2024 (Tons)

Figure 36. Americas Sulfide Solid Electrolyte Material Revenue 2019-2024 (\$ millions)

Figure 37. APAC Sulfide Solid Electrolyte Material Sales 2019-2024 (Tons)

Figure 38. APAC Sulfide Solid Electrolyte Material Revenue 2019-2024 (\$ millions)

Figure 39. Europe Sulfide Solid Electrolyte Material Sales 2019-2024 (Tons)

Figure 40. Europe Sulfide Solid Electrolyte Material Revenue 2019-2024 (\$ millions)

Figure 41. Middle East & Africa Sulfide Solid Electrolyte Material Sales 2019-2024 (Tons)

Figure 42. Middle East & Africa Sulfide Solid Electrolyte Material Revenue 2019-2024 (\$ millions)

Figure 43. Americas Sulfide Solid Electrolyte Material Sales Market Share by Country in 2023

Figure 44. Americas Sulfide Solid Electrolyte Material Revenue Market Share by Country (2019-2024)

Figure 45. Americas Sulfide Solid Electrolyte Material Sales Market Share by Type (2019-2024)

Figure 46. Americas Sulfide Solid Electrolyte Material Sales Market Share by Application (2019-2024)

Figure 47. United States Sulfide Solid Electrolyte Material Revenue Growth 2019-2024 (\$ millions)

Figure 48. Canada Sulfide Solid Electrolyte Material Revenue Growth 2019-2024 (\$ millions)

Figure 49. Mexico Sulfide Solid Electrolyte Material Revenue Growth 2019-2024 (\$ millions)

Figure 50. Brazil Sulfide Solid Electrolyte Material Revenue Growth 2019-2024 (\$ millions)

Figure 51. APAC Sulfide Solid Electrolyte Material Sales Market Share by Region in 2023

Figure 52. APAC Sulfide Solid Electrolyte Material Revenue Market Share by Region (2019-2024)

Figure 53. APAC Sulfide Solid Electrolyte Material Sales Market Share by Type (2019-2024)

Figure 54. APAC Sulfide Solid Electrolyte Material Sales Market Share by Application (2019-2024)

Figure 55. China Sulfide Solid Electrolyte Material Revenue Growth 2019-2024 (\$ millions)

Figure 56. Japan Sulfide Solid Electrolyte Material Revenue Growth 2019-2024 (\$ millions)

Figure 57. South Korea Sulfide Solid Electrolyte Material Revenue Growth 2019-2024 (\$ millions)

Figure 58. Southeast Asia Sulfide Solid Electrolyte Material Revenue Growth 2019-2024 (\$ millions)

Figure 59. India Sulfide Solid Electrolyte Material Revenue Growth 2019-2024 (\$ millions)

Figure 60. Australia Sulfide Solid Electrolyte Material Revenue Growth 2019-2024 (\$ millions)

Figure 61. China Taiwan Sulfide Solid Electrolyte Material Revenue Growth 2019-2024 (\$ millions)

Figure 62. Europe Sulfide Solid Electrolyte Material Sales Market Share by Country in 2023

Figure 63. Europe Sulfide Solid Electrolyte Material Revenue Market Share by Country (2019-2024)

Figure 64. Europe Sulfide Solid Electrolyte Material Sales Market Share by Type (2019-2024)

Figure 65. Europe Sulfide Solid Electrolyte Material Sales Market Share by Application (2019-2024)

Figure 66. Germany Sulfide Solid Electrolyte Material Revenue Growth 2019-2024 (\$ millions)

Figure 67. France Sulfide Solid Electrolyte Material Revenue Growth 2019-2024 (\$ millions)

Figure 68. UK Sulfide Solid Electrolyte Material Revenue Growth 2019-2024 (\$ millions)

Figure 69. Italy Sulfide Solid Electrolyte Material Revenue Growth 2019-2024 (\$ millions)

Figure 70. Russia Sulfide Solid Electrolyte Material Revenue Growth 2019-2024 (\$ millions)

Figure 71. Middle East & Africa Sulfide Solid Electrolyte Material Sales Market Share by Country (2019-2024)

Figure 72. Middle East & Africa Sulfide Solid Electrolyte Material Sales Market Share by Type (2019-2024)

Figure 73. Middle East & Africa Sulfide Solid Electrolyte Material Sales Market Share by Application (2019-2024)

Figure 74. Egypt Sulfide Solid Electrolyte Material Revenue Growth 2019-2024 (\$ millions)

Figure 75. South Africa Sulfide Solid Electrolyte Material Revenue Growth 2019-2024 (\$ millions)

Figure 76. Israel Sulfide Solid Electrolyte Material Revenue Growth 2019-2024 (\$ millions)

Figure 77. Turkey Sulfide Solid Electrolyte Material Revenue Growth 2019-2024 (\$ millions)

Figure 78. GCC Countries Sulfide Solid Electrolyte Material Revenue Growth 2019-2024 (\$ millions)

Figure 79. Manufacturing Cost Structure Analysis of Sulfide Solid Electrolyte Material in 2023

Figure 80. Manufacturing Process Analysis of Sulfide Solid Electrolyte Material

Figure 81. Industry Chain Structure of Sulfide Solid Electrolyte Material

Figure 82. Channels of Distribution

Figure 83. Global Sulfide Solid Electrolyte Material Sales Market Forecast by Region (2025-2030)

Figure 84. Global Sulfide Solid Electrolyte Material Revenue Market Share Forecast by Region (2025-2030)

Figure 85. Global Sulfide Solid Electrolyte Material Sales Market Share Forecast by Type (2025-2030)

Figure 86. Global Sulfide Solid Electrolyte Material Revenue Market Share Forecast by Type (2025-2030)

Figure 87. Global Sulfide Solid Electrolyte Material Sales Market Share Forecast by Application (2025-2030)

Figure 88. Global Sulfide Solid Electrolyte Material Revenue Market Share Forecast by Application (2025-2030)

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