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Global Spin-On Carbon SOC Material Market Growth 2026-2032

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Abstracts

The global Spin-On Carbon SOC Material market size is predicted to grow from US$ 182 million in 2025 to US$ 342 million in 2032; it is expected to grow at a CAGR of 9.4% from 2026 to 2032.

In 2025, global sales volume for Spin-On Carbon (SOC) materials is projected to reach 48,000 liters, with an average price of $3,857 per liter.

Spin-On Carbon (SOC) is an organic coating material utilized in advanced semiconductor lithography processes; it constitutes a core category within the broader class of Spin-On Hardmasks (SOH). Chemically, it consists of a solution of cross-linked aromatic polymers characterized by a high carbon content (>80%, with optimized formulations reaching up to 90%). Typically, this solution is formulated by blending poly(amic acid) resins, cross-linking agents, and organic solvents (such as PGMEA). Applied in liquid form via a spin-coating process to ensure uniform coverage across the wafer surface, SOC undergoes a high-temperature baking and curing step (ranging from 200?C to 550?C) to form a dense, amorphous carbon film. This film serves as a sacrificial layer or hardmask, playing a critical role in various semiconductor manufacturing stages, including multi-layer lithography, plasma etching, and Chemical Vapor Deposition (CVD) processes.

Spin-on carbon materials provide high transparency for improved overlay control and high thermal stability for compatibility in various integration flows. Spin-on carbon (SOC) hardmasks are an increasingly key component of the micro-chip fabrication process. They are frequently used to improve the resists? selectivity to silicon during plasma etching. Furthermore, as chip architectures become increasingly complex the use of hardmasks to improve the aspect ratio of features in silicon is critical. In this context, the

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?aspect ratio? is the ratio between the height of a feature on a silicon wafer and its width. For many emerging multi-layer chip architectures, such as tri-layer etch-stacks, a large height to width ratio is required to maintain small lateral features across multiple vertical layers. In a tri-layer etch stack the bottom layer is typically thick amorphous carbon deposited by chemical vapor deposition (CVD). The challenges for CVD are high capital and running costs, particle defects, and the non-planarizing nature of the layer. According to our research?global SOC (Spin on Carbon) Hardmasks market is projected to reach US$ 1208.7 million in 2029, increasing from US$ 649.3 million in 2022, with the CAGR of 9.3% during the period of 2023 to 2029. Demand from Semiconductors (excl. Memory) and DRAM are the major drivers for the industry.Global key players of SOC (spin on carbon) hardmasks include Samsung SDI, Merck Group, JSR, Brewer Science, YCCHEM, etc. Asia-Pacific is the largest market, followed by North America and Europe.

LP Information, Inc. (LPI) ' newest research report, the ?Spin-On Carbon SOC Material Industry Forecast? looks at past sales and reviews total world Spin-On Carbon SOC Material sales in 2025, providing a comprehensive analysis by region and market sector of projected Spin-On Carbon SOC Material sales for 2026 through 2032. With Spin-On Carbon SOC Material sales broken down by region, market sector and sub-sector, this report provides a detailed analysis in US$ millions of the world Spin-On Carbon SOC Material industry.

This Insight Report provides a comprehensive analysis of the global Spin-On Carbon SOC 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 Spin-On Carbon SOC Material portfolios and capabilities, market entry strategies, market positions, and geographic footprints, to better understand these firms? unique position in an accelerating global Spin-On Carbon SOC Material market.

This Insight Report evaluates the key market trends, drivers, and affecting factors shaping the global outlook for Spin-On Carbon SOC 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 Spin-On Carbon SOC Material.

This report presents a comprehensive overview, market shares, and growth

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opportunities of Spin-On Carbon SOC Material market by product type, application, key manufacturers and key regions and countries.

Segmentation by Type:

Carbon Content: 80?85%

Carbon Content: >90%

Segmentation by Curing Temperature:

High Temperature

Room Temperature

Segmentation by Technology Node:

Mature Nodes (28nm+)

Advanced Nodes (7?14nm)

Ultra-Advanced Nodes (3?5nm, GAA)

Segmentation by Application:

Semiconductors

DRAM

NAND

LCDs

This report also splits the market by region:

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Americas

United States

Canada

Mexico

Brazil

APAC

China

Japan

Korea

Southeast Asia

India

Australia

Europe

Germany

France

UK

Italy

Russia

Middle East & Africa

Egypt

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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.

Samsung SDI (KR)

Merck Group (DE)

JSR (JP)

Brewer Science (US)

Shin-Etsu MicroSi (US)

YCCHEM (KR)

Nano-C (US)

Key Questions Addressed in this Report
What is the 10-year outlook for the global Spin-On Carbon SOC Material market?
What factors are driving Spin-On Carbon SOC Material market growth, globally and by region?
Which technologies are poised for the fastest growth by market and region?
How do Spin-On Carbon SOC Material market opportunities vary by end market size?
How does Spin-On Carbon SOC Material break out by Type, by Application?

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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 Spin-On Carbon SOC Material Annual Sales 2021-2032
  2.1.2 World Current & Future Analysis for Spin-On Carbon SOC Material by Geographic Region, 2021, 2025 & 2032
  2.1.3 World Current & Future Analysis for Spin-On Carbon SOC Material by Country/Region, 2021, 2025 & 2032
2.2 Spin-On Carbon SOC Material Segment by Type
  2.2.1 Carbon Content: 80?85%
  2.2.2 Carbon Content: >90%
  2.2.3 Spin-On Carbon SOC Material Sales by Type
    2.2.3.1 Global Spin-On Carbon SOC Material Sales Market Share by Type (2021-2026)
    2.2.3.2 Global Spin-On Carbon SOC Material Revenue and Market Share by Type (2021-2026)
    2.2.3.3 Global Spin-On Carbon SOC Material Sale Price by Type (2021-2026)
2.3 Spin-On Carbon SOC Material Segment by Curing Temperature
  2.3.1 High Temperature
  2.3.2 Room Temperature
  2.3.3 Spin-On Carbon SOC Material Sales by Curing Temperature
    2.3.3.1 Global Spin-On Carbon SOC Material Sales Market Share by Curing Temperature (2021-2026)
    2.3.3.2 Global Spin-On Carbon SOC Material Revenue and Market Share by Curing Temperature (2021-2026)
    2.3.3.3 Global Spin-On Carbon SOC Material Sale Price by Curing Temperature

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(2021-2026)
2.4 Spin-On Carbon SOC Material Segment by Technology Node
2.4.1 Mature Nodes (28nm+)
2.4.2 Advanced Nodes (7?14nm)
2.4.3 Ultra-Advanced Nodes (3?5nm, GAA)
2.4.4 Spin-On Carbon SOC Material Sales by Technology Node
2.4.4.1 Global Spin-On Carbon SOC Material Sales Market Share by Technology Node (2021-2026)
2.4.4.2 Global Spin-On Carbon SOC Material Revenue and Market Share by Technology Node (2021-2026)
2.4.4.3 Global Spin-On Carbon SOC Material Sale Price by Technology Node (2021-2026)
2.5 Spin-On Carbon SOC Material Segment by Application
2.5.1 Semiconductors
2.5.2 DRAM
2.5.3 NAND
2.5.4 LCDs
2.5.5 Spin-On Carbon SOC Material Sales by Application
2.5.5.1 Global Spin-On Carbon SOC Material Sale Market Share by Application (2021-2026)
2.5.5.2 Global Spin-On Carbon SOC Material Revenue and Market Share by Application (2021-2026)
2.5.5.3 Global Spin-On Carbon SOC Material Sale Price by Application (2021-2026)

3 GLOBAL BY COMPANY

3.1 Global Spin-On Carbon SOC Material Breakdown Data by Company
3.1.1 Global Spin-On Carbon SOC Material Annual Sales by Company (2021-2026)
3.1.2 Global Spin-On Carbon SOC Material Sales Market Share by Company (2021-2026)
3.2 Global Spin-On Carbon SOC Material Annual Revenue by Company (2021-2026)
3.2.1 Global Spin-On Carbon SOC Material Revenue by Company (2021-2026)
3.2.2 Global Spin-On Carbon SOC Material Revenue Market Share by Company (2021-2026)
3.3 Global Spin-On Carbon SOC Material Sale Price by Company
3.4 Key Manufacturers Spin-On Carbon SOC Material Producing Area Distribution, Sales Area, Product Type
3.4.1 Key Manufacturers Spin-On Carbon SOC Material Product Location Distribution
3.4.2 Players Spin-On Carbon SOC Material Products Offered

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info@marketpublishers.com

3.5 Market Concentration Rate Analysis
3.5.1 Competition Landscape Analysis
3.5.2 Concentration Ratio (CR3, CR5 and CR10) & (2024-2026)
3.6 New Products and Potential Entrants
3.7 Market M&A Activity & Strategy

4 WORLD HISTORIC REVIEW FOR SPIN-ON CARBON SOC MATERIAL BY GEOGRAPHIC REGION

4.1 World Historic Spin-On Carbon SOC Material Market Size by Geographic Region (2021-2026)
4.1.1 Global Spin-On Carbon SOC Material Annual Sales by Geographic Region (2021-2026)
4.1.2 Global Spin-On Carbon SOC Material Annual Revenue by Geographic Region (2021-2026)
4.2 World Historic Spin-On Carbon SOC Material Market Size by Country/Region (2021-2026)
4.2.1 Global Spin-On Carbon SOC Material Annual Sales by Country/Region (2021-2026)
4.2.2 Global Spin-On Carbon SOC Material Annual Revenue by Country/Region (2021-2026)
4.3 Americas Spin-On Carbon SOC Material Sales Growth
4.4 APAC Spin-On Carbon SOC Material Sales Growth
4.5 Europe Spin-On Carbon SOC Material Sales Growth
4.6 Middle East & Africa Spin-On Carbon SOC Material Sales Growth

5 AMERICAS

5.1 Americas Spin-On Carbon SOC Material Sales by Country
5.1.1 Americas Spin-On Carbon SOC Material Sales by Country (2021-2026)
5.1.2 Americas Spin-On Carbon SOC Material Revenue by Country (2021-2026)
5.2 Americas Spin-On Carbon SOC Material Sales by Type (2021-2026)
5.3 Americas Spin-On Carbon SOC Material Sales by Application (2021-2026)
5.4 United States
5.5 Canada
5.6 Mexico
5.7 Brazil

6 APAC

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6.1 APAC Spin-On Carbon SOC Material Sales by Region
6.1.1 APAC Spin-On Carbon SOC Material Sales by Region (2021-2026)
6.1.2 APAC Spin-On Carbon SOC Material Revenue by Region (2021-2026)
6.2 APAC Spin-On Carbon SOC Material Sales by Type (2021-2026)
6.3 APAC Spin-On Carbon SOC Material Sales by Application (2021-2026)
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 Spin-On Carbon SOC Material by Country
7.1.1 Europe Spin-On Carbon SOC Material Sales by Country (2021-2026)
7.1.2 Europe Spin-On Carbon SOC Material Revenue by Country (2021-2026)
7.2 Europe Spin-On Carbon SOC Material Sales by Type (2021-2026)
7.3 Europe Spin-On Carbon SOC Material Sales by Application (2021-2026)
7.4 Germany
7.5 France
7.6 UK
7.7 Italy
7.8 Russia

8 MIDDLE EAST & AFRICA

8.1 Middle East & Africa Spin-On Carbon SOC Material by Country
8.1.1 Middle East & Africa Spin-On Carbon SOC Material Sales by Country (2021-2026)
8.1.2 Middle East & Africa Spin-On Carbon SOC Material Revenue by Country (2021-2026)
8.2 Middle East & Africa Spin-On Carbon SOC Material Sales by Type (2021-2026)
8.3 Middle East & Africa Spin-On Carbon SOC Material Sales by Application (2021-2026)
8.4 Egypt
8.5 South Africa

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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 Spin-On Carbon SOC Material
10.3 Manufacturing Process Analysis of Spin-On Carbon SOC Material
10.4 Industry Chain Structure of Spin-On Carbon SOC Material

11 MARKETING, DISTRIBUTORS AND CUSTOMER

11.1 Sales Channel
  11.1.1 Direct Channels
  11.1.2 Indirect Channels
11.2 Spin-On Carbon SOC Material Distributors
11.3 Spin-On Carbon SOC Material Customer

12 WORLD FORECAST REVIEW FOR SPIN-ON CARBON SOC MATERIAL BY GEOGRAPHIC REGION

12.1 Global Spin-On Carbon SOC Material Market Size Forecast by Region
  12.1.1 Global Spin-On Carbon SOC Material Forecast by Region (2027-2032)
  12.1.2 Global Spin-On Carbon SOC Material Annual Revenue Forecast by Region (2027-2032)
12.2 Americas Forecast by Country (2027-2032)
12.3 APAC Forecast by Region (2027-2032)
12.4 Europe Forecast by Country (2027-2032)
12.5 Middle East & Africa Forecast by Country (2027-2032)
12.6 Global Spin-On Carbon SOC Material Forecast by Type (2027-2032)
12.7 Global Spin-On Carbon SOC Material Forecast by Application (2027-2032)

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13 KEY PLAYERS ANALYSIS

13.1 Samsung SDI (KR)
13.1.1 Samsung SDI (KR) Company Information
13.1.2 Samsung SDI (KR) Spin-On Carbon SOC Material Product Portfolios and Specifications
13.1.3 Samsung SDI (KR) Spin-On Carbon SOC Material Sales, Revenue, Price and Gross Margin (2021-2026)
13.1.4 Samsung SDI (KR) Main Business Overview
13.1.5 Samsung SDI (KR) Latest Developments
13.2 Merck Group (DE)
13.2.1 Merck Group (DE) Company Information
13.2.2 Merck Group (DE) Spin-On Carbon SOC Material Product Portfolios and Specifications
13.2.3 Merck Group (DE) Spin-On Carbon SOC Material Sales, Revenue, Price and Gross Margin (2021-2026)
13.2.4 Merck Group (DE) Main Business Overview
13.2.5 Merck Group (DE) Latest Developments
13.3 JSR (JP)
13.3.1 JSR (JP) Company Information
13.3.2 JSR (JP) Spin-On Carbon SOC Material Product Portfolios and Specifications
13.3.3 JSR (JP) Spin-On Carbon SOC Material Sales, Revenue, Price and Gross Margin (2021-2026)
13.3.4 JSR (JP) Main Business Overview
13.3.5 JSR (JP) Latest Developments
13.4 Brewer Science (US)
13.4.1 Brewer Science (US) Company Information
13.4.2 Brewer Science (US) Spin-On Carbon SOC Material Product Portfolios and Specifications
13.4.3 Brewer Science (US) Spin-On Carbon SOC Material Sales, Revenue, Price and Gross Margin (2021-2026)
13.4.4 Brewer Science (US) Main Business Overview
13.4.5 Brewer Science (US) Latest Developments
13.5 Shin-Etsu MicroSi (US)
13.5.1 Shin-Etsu MicroSi (US) Company Information
13.5.2 Shin-Etsu MicroSi (US) Spin-On Carbon SOC Material Product Portfolios and Specifications
13.5.3 Shin-Etsu MicroSi (US) Spin-On Carbon SOC Material Sales, Revenue, Price and Gross Margin (2021-2026)

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13.5.4 Shin-Etsu MicroSi (US) Main Business Overview
13.5.5 Shin-Etsu MicroSi (US) Latest Developments
13.6 YCCHEM (KR)
13.6.1 YCCHEM (KR) Company Information
13.6.2 YCCHEM (KR) Spin-On Carbon SOC Material Product Portfolios and Specifications
13.6.3 YCCHEM (KR) Spin-On Carbon SOC Material Sales, Revenue, Price and Gross Margin (2021-2026)
13.6.4 YCCHEM (KR) Main Business Overview
13.6.5 YCCHEM (KR) Latest Developments
13.7 Nano-C (US)
13.7.1 Nano-C (US) Company Information
13.7.2 Nano-C (US) Spin-On Carbon SOC Material Product Portfolios and Specifications
13.7.3 Nano-C (US) Spin-On Carbon SOC Material Sales, Revenue, Price and Gross Margin (2021-2026)
13.7.4 Nano-C (US) Main Business Overview
13.7.5 Nano-C (US) Latest Developments

14 RESEARCH FINDINGS AND CONCLUSION

+357 96 030922
info@marketpublishers.com

List Of Tables

LIST OF TABLES

Table 1. Spin-On Carbon SOC Material Annual Sales CAGR by Geographic Region (2021, 2025 & 2032) & ($ millions)
Table 2. Spin-On Carbon SOC Material Annual Sales CAGR by Country/Region (2021, 2025 & 2032) & ($ millions)
Table 3. Major Players of Carbon Content: 80?85%
Table 4. Major Players of Carbon Content: >90%
Table 5. Global Spin-On Carbon SOC Material Sales by Type (2021-2026) & (L)
Table 6. Global Spin-On Carbon SOC Material Sales Market Share by Type (2021-2026)
Table 7. Global Spin-On Carbon SOC Material Revenue by Type (2021-2026) & ($ million)
Table 8. Global Spin-On Carbon SOC Material Revenue Market Share by Type (2021-2026)
Table 9. Global Spin-On Carbon SOC Material Sale Price by Type (2021-2026) & (US$/L)
Table 10. Major Players of High Temperature
Table 11. Major Players of Room Temperature
Table 12. Global Spin-On Carbon SOC Material Sales by Curing Temperature (2021-2026) & (L)
Table 13. Global Spin-On Carbon SOC Material Sales Market Share by Curing Temperature (2021-2026)
Table 14. Global Spin-On Carbon SOC Material Revenue by Curing Temperature (2021-2026) & ($ million)
Table 15. Global Spin-On Carbon SOC Material Revenue Market Share by Curing Temperature (2021-2026)
Table 16. Global Spin-On Carbon SOC Material Sale Price by Curing Temperature (2021-2026) & (US$/L)
Table 17. Major Players of Mature Nodes (28nm+)
Table 18. Major Players of Advanced Nodes (7?14nm)
Table 19. Major Players of Ultra-Advanced Nodes (3?5nm, GAA)
Table 20. Global Spin-On Carbon SOC Material Sales by Technology Node (2021-2026) & (L)
Table 21. Global Spin-On Carbon SOC Material Sales Market Share by Technology Node (2021-2026)
Table 22. Global Spin-On Carbon SOC Material Revenue by Technology Node

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(2021-2026) & ($ million)
Table 23. Global Spin-On Carbon SOC Material Revenue Market Share by Technology Node (2021-2026)
Table 24. Global Spin-On Carbon SOC Material Sale Price by Technology Node (2021-2026) & (US$/L)
Table 25. Global Spin-On Carbon SOC Material Sale by Application (2021-2026) & (L)
Table 26. Global Spin-On Carbon SOC Material Sale Market Share by Application (2021-2026)
Table 27. Global Spin-On Carbon SOC Material Revenue by Application (2021-2026) & ($ million)
Table 28. Global Spin-On Carbon SOC Material Revenue Market Share by Application (2021-2026)
Table 29. Global Spin-On Carbon SOC Material Sale Price by Application (2021-2026) & (US$/L)
Table 30. Global Spin-On Carbon SOC Material Sales by Company (2021-2026) & (L)
Table 31. Global Spin-On Carbon SOC Material Sales Market Share by Company (2021-2026)
Table 32. Global Spin-On Carbon SOC Material Revenue by Company (2021-2026) & ($ millions)
Table 33. Global Spin-On Carbon SOC Material Revenue Market Share by Company (2021-2026)
Table 34. Global Spin-On Carbon SOC Material Sale Price by Company (2021-2026) & (US$/L)
Table 35. Key Manufacturers Spin-On Carbon SOC Material Producing Area Distribution and Sales Area
Table 36. Players Spin-On Carbon SOC Material Products Offered
Table 37. Spin-On Carbon SOC Material Concentration Ratio (CR3, CR5 and CR10) & (2024-2026)
Table 38. New Products and Potential Entrants
Table 39. Market M&A Activity & Strategy
Table 40. Global Spin-On Carbon SOC Material Sales by Geographic Region (2021-2026) & (L)
Table 41. Global Spin-On Carbon SOC Material Sales Market Share Geographic Region (2021-2026)
Table 42. Global Spin-On Carbon SOC Material Revenue by Geographic Region (2021-2026) & ($ millions)
Table 43. Global Spin-On Carbon SOC Material Revenue Market Share by Geographic Region (2021-2026)
Table 44. Global Spin-On Carbon SOC Material Sales by Country/Region (2021-2026)

+357 96 030922
info@marketpublishers.com

& (L)
Table 45. Global Spin-On Carbon SOC Material Sales Market Share by Country/Region (2021-2026)
Table 46. Global Spin-On Carbon SOC Material Revenue by Country/Region (2021-2026) & ($ millions)
Table 47. Global Spin-On Carbon SOC Material Revenue Market Share by Country/Region (2021-2026)
Table 48. Americas Spin-On Carbon SOC Material Sales by Country (2021-2026) & (L)
Table 49. Americas Spin-On Carbon SOC Material Sales Market Share by Country (2021-2026)
Table 50. Americas Spin-On Carbon SOC Material Revenue by Country (2021-2026) & ($ millions)
Table 51. Americas Spin-On Carbon SOC Material Sales by Type (2021-2026) & (L)
Table 52. Americas Spin-On Carbon SOC Material Sales by Application (2021-2026) & (L)
Table 53. APAC Spin-On Carbon SOC Material Sales by Region (2021-2026) & (L)
Table 54. APAC Spin-On Carbon SOC Material Sales Market Share by Region (2021-2026)
Table 55. APAC Spin-On Carbon SOC Material Revenue by Region (2021-2026) & ($ millions)
Table 56. APAC Spin-On Carbon SOC Material Sales by Type (2021-2026) & (L)
Table 57. APAC Spin-On Carbon SOC Material Sales by Application (2021-2026) & (L)
Table 58. Europe Spin-On Carbon SOC Material Sales by Country (2021-2026) & (L)
Table 59. Europe Spin-On Carbon SOC Material Revenue by Country (2021-2026) & ($ millions)
Table 60. Europe Spin-On Carbon SOC Material Sales by Type (2021-2026) & (L)
Table 61. Europe Spin-On Carbon SOC Material Sales by Application (2021-2026) & (L)
Table 62. Middle East & Africa Spin-On Carbon SOC Material Sales by Country (2021-2026) & (L)
Table 63. Middle East & Africa Spin-On Carbon SOC Material Revenue Market Share by Country (2021-2026)
Table 64. Middle East & Africa Spin-On Carbon SOC Material Sales by Type (2021-2026) & (L)
Table 65. Middle East & Africa Spin-On Carbon SOC Material Sales by Application (2021-2026) & (L)
Table 66. Key Market Drivers & Growth Opportunities of Spin-On Carbon SOC Material
Table 67. Key Market Challenges & Risks of Spin-On Carbon SOC Material
Table 68. Key Industry Trends of Spin-On Carbon SOC Material
Table 69. Spin-On Carbon SOC Material Raw Material

+357 96 030922
info@marketpublishers.com

Table 70. Key Suppliers of Raw Materials
Table 71. Spin-On Carbon SOC Material Distributors List
Table 72. Spin-On Carbon SOC Material Customer List
Table 73. Global Spin-On Carbon SOC Material Sales Forecast by Region (2027-2032) & (L)
Table 74. Global Spin-On Carbon SOC Material Revenue Forecast by Region (2027-2032) & ($ millions)
Table 75. Americas Spin-On Carbon SOC Material Sales Forecast by Country (2027-2032) & (L)
Table 76. Americas Spin-On Carbon SOC Material Annual Revenue Forecast by Country (2027-2032) & ($ millions)
Table 77. APAC Spin-On Carbon SOC Material Sales Forecast by Region (2027-2032) & (L)
Table 78. APAC Spin-On Carbon SOC Material Annual Revenue Forecast by Region (2027-2032) & ($ millions)
Table 79. Europe Spin-On Carbon SOC Material Sales Forecast by Country (2027-2032) & (L)
Table 80. Europe Spin-On Carbon SOC Material Revenue Forecast by Country (2027-2032) & ($ millions)
Table 81. Middle East & Africa Spin-On Carbon SOC Material Sales Forecast by Country (2027-2032) & (L)
Table 82. Middle East & Africa Spin-On Carbon SOC Material Revenue Forecast by Country (2027-2032) & ($ millions)
Table 83. Global Spin-On Carbon SOC Material Sales Forecast by Type (2027-2032) & (L)
Table 84. Global Spin-On Carbon SOC Material Revenue Forecast by Type (2027-2032) & ($ millions)
Table 85. Global Spin-On Carbon SOC Material Sales Forecast by Application (2027-2032) & (L)
Table 86. Global Spin-On Carbon SOC Material Revenue Forecast by Application (2027-2032) & ($ millions)
Table 87. Samsung SDI (KR) Basic Information, Spin-On Carbon SOC Material Manufacturing Base, Sales Area and Its Competitors
Table 88. Samsung SDI (KR) Spin-On Carbon SOC Material Product Portfolios and Specifications
Table 89. Samsung SDI (KR) Spin-On Carbon SOC Material Sales (L), Revenue ($ Million), Price (US$/L) and Gross Margin (2021-2026)
Table 90. Samsung SDI (KR) Main Business
Table 91. Samsung SDI (KR) Latest Developments

+357 96 030922
info@marketpublishers.com

Table 92. Merck Group (DE) Basic Information, Spin-On Carbon SOC Material Manufacturing Base, Sales Area and Its Competitors
Table 93. Merck Group (DE) Spin-On Carbon SOC Material Product Portfolios and Specifications
Table 94. Merck Group (DE) Spin-On Carbon SOC Material Sales (L), Revenue ($ Million), Price (US$/L) and Gross Margin (2021-2026)
Table 95. Merck Group (DE) Main Business
Table 96. Merck Group (DE) Latest Developments
Table 97. JSR (JP) Basic Information, Spin-On Carbon SOC Material Manufacturing Base, Sales Area and Its Competitors
Table 98. JSR (JP) Spin-On Carbon SOC Material Product Portfolios and Specifications
Table 99. JSR (JP) Spin-On Carbon SOC Material Sales (L), Revenue ($ Million), Price (US$/L) and Gross Margin (2021-2026)
Table 100. JSR (JP) Main Business
Table 101. JSR (JP) Latest Developments
Table 102. Brewer Science (US) Basic Information, Spin-On Carbon SOC Material Manufacturing Base, Sales Area and Its Competitors
Table 103. Brewer Science (US) Spin-On Carbon SOC Material Product Portfolios and Specifications
Table 104. Brewer Science (US) Spin-On Carbon SOC Material Sales (L), Revenue ($ Million), Price (US$/L) and Gross Margin (2021-2026)
Table 105. Brewer Science (US) Main Business
Table 106. Brewer Science (US) Latest Developments
Table 107. Shin-Etsu MicroSi (US) Basic Information, Spin-On Carbon SOC Material Manufacturing Base, Sales Area and Its Competitors
Table 108. Shin-Etsu MicroSi (US) Spin-On Carbon SOC Material Product Portfolios and Specifications
Table 109. Shin-Etsu MicroSi (US) Spin-On Carbon SOC Material Sales (L), Revenue ($ Million), Price (US$/L) and Gross Margin (2021-2026)
Table 110. Shin-Etsu MicroSi (US) Main Business
Table 111. Shin-Etsu MicroSi (US) Latest Developments
Table 112. YCCHEM (KR) Basic Information, Spin-On Carbon SOC Material Manufacturing Base, Sales Area and Its Competitors
Table 113. YCCHEM (KR) Spin-On Carbon SOC Material Product Portfolios and Specifications
Table 114. YCCHEM (KR) Spin-On Carbon SOC Material Sales (L), Revenue ($ Million), Price (US$/L) and Gross Margin (2021-2026)
Table 115. YCCHEM (KR) Main Business
Table 116. YCCHEM (KR) Latest Developments

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Table 117. Nano-C (US) Basic Information, Spin-On Carbon SOC Material Manufacturing Base, Sales Area and Its Competitors
Table 118. Nano-C (US) Spin-On Carbon SOC Material Product Portfolios and Specifications
Table 119. Nano-C (US) Spin-On Carbon SOC Material Sales (L), Revenue ($ Million), Price (US$/L) and Gross Margin (2021-2026)
Table 120. Nano-C (US) Main Business
Table 121. Nano-C (US) Latest Developments

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List Of Figures

LIST OF FIGURES

Figure 1. Picture of Spin-On Carbon SOC Material
Figure 2. Spin-On Carbon SOC Material Report Years Considered
Figure 3. Research Objectives
Figure 4. Research Methodology
Figure 5. Research Process and Data Source
Figure 6. Global Spin-On Carbon SOC Material Sales Growth Rate 2021-2032 (L)
Figure 7. Global Spin-On Carbon SOC Material Revenue Growth Rate 2021-2032 ($ millions)
Figure 8. Spin-On Carbon SOC Material Sales by Geographic Region (2021, 2025 & 2032) & ($ millions)
Figure 9. Spin-On Carbon SOC Material Sales Market Share by Country/Region (2025)
Figure 10. Spin-On Carbon SOC Material Sales Market Share by Country/Region (2021, 2025 & 2032)
Figure 11. Product Picture of Carbon Content: 80?85%
Figure 12. Product Picture of Carbon Content: >90%
Figure 13. Global Spin-On Carbon SOC Material Sales Market Share by Type in 2026
Figure 14. Global Spin-On Carbon SOC Material Revenue Market Share by Type (2021-2026)
Figure 15. Product Picture of High Temperature
Figure 16. Product Picture of Room Temperature
Figure 17. Global Spin-On Carbon SOC Material Sales Market Share by Curing Temperature in 2026
Figure 18. Global Spin-On Carbon SOC Material Revenue Market Share by Curing Temperature (2021-2026)
Figure 19. Product Picture of Mature Nodes (28nm+)
Figure 20. Product Picture of Advanced Nodes (7?14nm)
Figure 21. Product Picture of Ultra-Advanced Nodes (3?5nm, GAA)
Figure 22. Global Spin-On Carbon SOC Material Sales Market Share by Technology Node in 2026
Figure 23. Global Spin-On Carbon SOC Material Revenue Market Share by Technology Node (2021-2026)
Figure 24. Spin-On Carbon SOC Material Consumed in Semiconductors
Figure 25. Global Spin-On Carbon SOC Material Market: Semiconductors (2021-2026) & (L)
Figure 26. Spin-On Carbon SOC Material Consumed in DRAM

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Figure 27. Global Spin-On Carbon SOC Material Market: DRAM (2021-2026) & (L)
Figure 28. Spin-On Carbon SOC Material Consumed in NAND
Figure 29. Global Spin-On Carbon SOC Material Market: NAND (2021-2026) & (L)
Figure 30. Spin-On Carbon SOC Material Consumed in LCDs
Figure 31. Global Spin-On Carbon SOC Material Market: LCDs (2021-2026) & (L)
Figure 32. Global Spin-On Carbon SOC Material Sale Market Share by Application (2025)
Figure 33. Global Spin-On Carbon SOC Material Revenue Market Share by Application in 2025
Figure 34. Spin-On Carbon SOC Material Sales by Company in 2025 (L)
Figure 35. Global Spin-On Carbon SOC Material Sales Market Share by Company in 2025
Figure 36. Spin-On Carbon SOC Material Revenue by Company in 2025 ($ millions)
Figure 37. Global Spin-On Carbon SOC Material Revenue Market Share by Company in 2025
Figure 38. Global Spin-On Carbon SOC Material Sales Market Share by Geographic Region (2021-2026)
Figure 39. Global Spin-On Carbon SOC Material Revenue Market Share by Geographic Region in 2025
Figure 40. Americas Spin-On Carbon SOC Material Sales 2021-2026 (L)
Figure 41. Americas Spin-On Carbon SOC Material Revenue 2021-2026 ($ millions)
Figure 42. APAC Spin-On Carbon SOC Material Sales 2021-2026 (L)
Figure 43. APAC Spin-On Carbon SOC Material Revenue 2021-2026 ($ millions)
Figure 44. Europe Spin-On Carbon SOC Material Sales 2021-2026 (L)
Figure 45. Europe Spin-On Carbon SOC Material Revenue 2021-2026 ($ millions)
Figure 46. Middle East & Africa Spin-On Carbon SOC Material Sales 2021-2026 (L)
Figure 47. Middle East & Africa Spin-On Carbon SOC Material Revenue 2021-2026 ($ millions)
Figure 48. Americas Spin-On Carbon SOC Material Sales Market Share by Country in 2025
Figure 49. Americas Spin-On Carbon SOC Material Revenue Market Share by Country (2021-2026)
Figure 50. Americas Spin-On Carbon SOC Material Sales Market Share by Type (2021-2026)
Figure 51. Americas Spin-On Carbon SOC Material Sales Market Share by Application (2021-2026)
Figure 52. United States Spin-On Carbon SOC Material Revenue Growth 2021-2026 ($ millions)
Figure 53. Canada Spin-On Carbon SOC Material Revenue Growth 2021-2026 ($

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millions)
Figure 54. Mexico Spin-On Carbon SOC Material Revenue Growth 2021-2026 ($ millions)
Figure 55. Brazil Spin-On Carbon SOC Material Revenue Growth 2021-2026 ($ millions)
Figure 56. APAC Spin-On Carbon SOC Material Sales Market Share by Region in 2025
Figure 57. APAC Spin-On Carbon SOC Material Revenue Market Share by Region (2021-2026)
Figure 58. APAC Spin-On Carbon SOC Material Sales Market Share by Type (2021-2026)
Figure 59. APAC Spin-On Carbon SOC Material Sales Market Share by Application (2021-2026)
Figure 60. China Spin-On Carbon SOC Material Revenue Growth 2021-2026 ($ millions)
Figure 61. Japan Spin-On Carbon SOC Material Revenue Growth 2021-2026 ($ millions)
Figure 62. South Korea Spin-On Carbon SOC Material Revenue Growth 2021-2026 ($ millions)
Figure 63. Southeast Asia Spin-On Carbon SOC Material Revenue Growth 2021-2026 ($ millions)
Figure 64. India Spin-On Carbon SOC Material Revenue Growth 2021-2026 ($ millions)
Figure 65. Australia Spin-On Carbon SOC Material Revenue Growth 2021-2026 ($ millions)
Figure 66. China Taiwan Spin-On Carbon SOC Material Revenue Growth 2021-2026 ($ millions)
Figure 67. Europe Spin-On Carbon SOC Material Sales Market Share by Country in 2025
Figure 68. Europe Spin-On Carbon SOC Material Revenue Market Share by Country (2021-2026)
Figure 69. Europe Spin-On Carbon SOC Material Sales Market Share by Type (2021-2026)
Figure 70. Europe Spin-On Carbon SOC Material Sales Market Share by Application (2021-2026)
Figure 71. Germany Spin-On Carbon SOC Material Revenue Growth 2021-2026 ($ millions)
Figure 72. France Spin-On Carbon SOC Material Revenue Growth 2021-2026 ($ millions)
Figure 73. UK Spin-On Carbon SOC Material Revenue Growth 2021-2026 ($ millions)
Figure 74. Italy Spin-On Carbon SOC Material Revenue Growth 2021-2026 ($ millions)

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Figure 75. Russia Spin-On Carbon SOC Material Revenue Growth 2021-2026 ($ millions)
Figure 76. Middle East & Africa Spin-On Carbon SOC Material Sales Market Share by Country (2021-2026)
Figure 77. Middle East & Africa Spin-On Carbon SOC Material Sales Market Share by Type (2021-2026)
Figure 78. Middle East & Africa Spin-On Carbon SOC Material Sales Market Share by Application (2021-2026)
Figure 79. Egypt Spin-On Carbon SOC Material Revenue Growth 2021-2026 ($ millions)
Figure 80. South Africa Spin-On Carbon SOC Material Revenue Growth 2021-2026 ($ millions)
Figure 81. Israel Spin-On Carbon SOC Material Revenue Growth 2021-2026 ($ millions)
Figure 82. Turkey Spin-On Carbon SOC Material Revenue Growth 2021-2026 ($ millions)
Figure 83. GCC Countries Spin-On Carbon SOC Material Revenue Growth 2021-2026 ($ millions)
Figure 84. Manufacturing Cost Structure Analysis of Spin-On Carbon SOC Material in 2026
Figure 85. Manufacturing Process Analysis of Spin-On Carbon SOC Material
Figure 86. Industry Chain Structure of Spin-On Carbon SOC Material
Figure 87. Channels of Distribution
Figure 88. Global Spin-On Carbon SOC Material Sales Market Forecast by Region (2027-2032)
Figure 89. Global Spin-On Carbon SOC Material Revenue Market Share Forecast by Region (2027-2032)
Figure 90. Global Spin-On Carbon SOC Material Sales Market Share Forecast by Type (2027-2032)
Figure 91. Global Spin-On Carbon SOC Material Revenue Market Share Forecast by Type (2027-2032)
Figure 92. Global Spin-On Carbon SOC Material Sales Market Share Forecast by Application (2027-2032)
Figure 93. Global Spin-On Carbon SOC Material Revenue Market Share Forecast by Application (2027-2032)

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