

SOC (Spin on Carbon) Hardmasks Market, Global Outlook and Forecast 2022-2028

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Abstracts

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 '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.

This report contains market size and forecasts of SOC (Spin on Carbon) Hardmasks in global, including the following market information:

Global SOC (Spin on Carbon) Hardmasks Market Revenue, 2017-2022, 2023-2028, (\$ millions)

Global SOC (Spin on Carbon) Hardmasks Market Sales, 2017-2022, 2023-2028, (Cubic Meters)

Global top five SOC (Spin on Carbon) Hardmasks companies in 2021 (%)

The global SOC (Spin on Carbon) Hardmasks market was valued at 598.4 million in 2021 and is projected to reach US\$ 1089.5 million by 2028, at a CAGR of 8.9% 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.

Hot-Temperature Spin on Carbon Hardmask Segment to Reach \$ Million by 2028, with a % CAGR in next six years.

The global key manufacturers of SOC (Spin on Carbon) Hardmasks include Samsung SDI, Merck Group, JSR, Brewer Science, Shin-Etsu MicroSi, YCCHEM and Nano-C, etc. In 2021, the global top five players have a share approximately % in terms of revenue.

MARKET MONITOR GLOBAL, INC (MMG) has surveyed the SOC (Spin on Carbon) Hardmasks 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 SOC (Spin on Carbon) Hardmasks Market, by Type, 2017-2022, 2023-2028 (\$ Millions) & (Cubic Meters)

Global SOC (Spin on Carbon) Hardmasks Market Segment Percentages, by Type, 2021 (%)

Hot-Temperature Spin on Carbon Hardmask

Normal Spin on Carbon Hardmask

Global SOC (Spin on Carbon) Hardmasks Market, by Application, 2017-2022, 2023-2028 (\$ Millions) & (Cubic Meters)

Global SOC (Spin on Carbon) Hardmasks Market Segment Percentages, by Application, 2021 (%)

Semiconductors (excl. Memory)

DRAM

NAND

LCDs

Global SOC (Spin on Carbon) Hardmasks Market, By Region and Country, 2017-2022, 2023-2028 (\$ Millions) & (Cubic Meters)

Global SOC (Spin on Carbon) Hardmasks 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 SOC (Spin on Carbon) Hardmasks revenues in global market, 2017-2022 (Estimated), (\$ millions)

Key companies SOC (Spin on Carbon) Hardmasks revenues share in global market, 2021 (%)

Key companies SOC (Spin on Carbon) Hardmasks sales in global market, 2017-2022 (Estimated), (Cubic Meters)

Key companies SOC (Spin on Carbon) Hardmasks sales share in global market, 2021 (%)

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

Samsung SDI

Merck Group

JSR

Brewer Science

Shin-Etsu MicroSi

YCCHEM

Nano-C

Contents

1 INTRODUCTION TO RESEARCH & ANALYSIS REPORTS

- 1.1 SOC (Spin on Carbon) Hardmasks Market Definition
- 1.2 Market Segments
 - 1.2.1 Market by Type
 - 1.2.2 Market by Application
- 1.3 Global SOC (Spin on Carbon) Hardmasks 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 SOC (SPIN ON CARBON) HARDMASKS OVERALL MARKET SIZE

- 2.1 Global SOC (Spin on Carbon) Hardmasks Market Size: 2021 VS 2028
- 2.2 Global SOC (Spin on Carbon) Hardmasks Revenue, Prospects & Forecasts: 2017-2028
- 2.3 Global SOC (Spin on Carbon) Hardmasks Sales: 2017-2028

3 COMPANY LANDSCAPE

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

4 SIGHTS BY PRODUCT

4.1 Overview

4.1.1 By Type - Global SOC (Spin on Carbon) Hardmasks Market Size Markets, 2021 & 2028

4.1.2 Hot-Temperature Spin on Carbon Hardmask

4.1.3 Normal Spin on Carbon Hardmask

4.2 By Type - Global SOC (Spin on Carbon) Hardmasks Revenue & Forecasts

4.2.1 By Type - Global SOC (Spin on Carbon) Hardmasks Revenue, 2017-2022

4.2.2 By Type - Global SOC (Spin on Carbon) Hardmasks Revenue, 2023-2028

4.2.3 By Type - Global SOC (Spin on Carbon) Hardmasks Revenue Market Share, 2017-2028

4.3 By Type - Global SOC (Spin on Carbon) Hardmasks Sales & Forecasts

4.3.1 By Type - Global SOC (Spin on Carbon) Hardmasks Sales, 2017-2022

4.3.2 By Type - Global SOC (Spin on Carbon) Hardmasks Sales, 2023-2028

4.3.3 By Type - Global SOC (Spin on Carbon) Hardmasks Sales Market Share, 2017-2028

4.4 By Type - Global SOC (Spin on Carbon) Hardmasks Price (Manufacturers Selling Prices), 2017-2028

5 SIGHTS BY APPLICATION

5.1 Overview

5.1.1 By Application - Global SOC (Spin on Carbon) Hardmasks Market Size, 2021 & 2028

5.1.2 Semiconductors (excl. Memory)

5.1.3 DRAM

5.1.4 NAND

5.1.5 LCDs

5.2 By Application - Global SOC (Spin on Carbon) Hardmasks Revenue & Forecasts

5.2.1 By Application - Global SOC (Spin on Carbon) Hardmasks Revenue, 2017-2022

5.2.2 By Application - Global SOC (Spin on Carbon) Hardmasks Revenue, 2023-2028

5.2.3 By Application - Global SOC (Spin on Carbon) Hardmasks Revenue Market Share, 2017-2028

5.3 By Application - Global SOC (Spin on Carbon) Hardmasks Sales & Forecasts

5.3.1 By Application - Global SOC (Spin on Carbon) Hardmasks Sales, 2017-2022

5.3.2 By Application - Global SOC (Spin on Carbon) Hardmasks Sales, 2023-2028

5.3.3 By Application - Global SOC (Spin on Carbon) Hardmasks Sales Market Share, 2017-2028

5.4 By Application - Global SOC (Spin on Carbon) Hardmasks Price (Manufacturers Selling Prices), 2017-2028

6 SIGHTS BY REGION

6.1 By Region - Global SOC (Spin on Carbon) Hardmasks Market Size, 2021 & 2028

6.2 By Region - Global SOC (Spin on Carbon) Hardmasks Revenue & Forecasts

6.2.1 By Region - Global SOC (Spin on Carbon) Hardmasks Revenue, 2017-2022

6.2.2 By Region - Global SOC (Spin on Carbon) Hardmasks Revenue, 2023-2028

6.2.3 By Region - Global SOC (Spin on Carbon) Hardmasks Revenue Market Share, 2017-2028

6.3 By Region - Global SOC (Spin on Carbon) Hardmasks Sales & Forecasts

6.3.1 By Region - Global SOC (Spin on Carbon) Hardmasks Sales, 2017-2022

6.3.2 By Region - Global SOC (Spin on Carbon) Hardmasks Sales, 2023-2028

6.3.3 By Region - Global SOC (Spin on Carbon) Hardmasks Sales Market Share, 2017-2028

6.4 North America

6.4.1 By Country - North America SOC (Spin on Carbon) Hardmasks Revenue, 2017-2028

6.4.2 By Country - North America SOC (Spin on Carbon) Hardmasks Sales, 2017-2028

6.4.3 US SOC (Spin on Carbon) Hardmasks Market Size, 2017-2028

6.4.4 Canada SOC (Spin on Carbon) Hardmasks Market Size, 2017-2028

6.4.5 Mexico SOC (Spin on Carbon) Hardmasks Market Size, 2017-2028

6.5 Europe

6.5.1 By Country - Europe SOC (Spin on Carbon) Hardmasks Revenue, 2017-2028

6.5.2 By Country - Europe SOC (Spin on Carbon) Hardmasks Sales, 2017-2028

6.5.3 Germany SOC (Spin on Carbon) Hardmasks Market Size, 2017-2028

6.5.4 France SOC (Spin on Carbon) Hardmasks Market Size, 2017-2028

6.5.5 U.K. SOC (Spin on Carbon) Hardmasks Market Size, 2017-2028

6.5.6 Italy SOC (Spin on Carbon) Hardmasks Market Size, 2017-2028

6.5.7 Russia SOC (Spin on Carbon) Hardmasks Market Size, 2017-2028

6.5.8 Nordic Countries SOC (Spin on Carbon) Hardmasks Market Size, 2017-2028

6.5.9 Benelux SOC (Spin on Carbon) Hardmasks Market Size, 2017-2028

6.6 Asia

6.6.1 By Region - Asia SOC (Spin on Carbon) Hardmasks Revenue, 2017-2028

6.6.2 By Region - Asia SOC (Spin on Carbon) Hardmasks Sales, 2017-2028

6.6.3 China SOC (Spin on Carbon) Hardmasks Market Size, 2017-2028

6.6.4 Japan SOC (Spin on Carbon) Hardmasks Market Size, 2017-2028

6.6.5 South Korea SOC (Spin on Carbon) Hardmasks Market Size, 2017-2028

6.6.6 Southeast Asia SOC (Spin on Carbon) Hardmasks Market Size, 2017-2028

6.6.7 India SOC (Spin on Carbon) Hardmasks Market Size, 2017-2028

6.7 South America

6.7.1 By Country - South America SOC (Spin on Carbon) Hardmasks Revenue, 2017-2028

6.7.2 By Country - South America SOC (Spin on Carbon) Hardmasks Sales, 2017-2028

6.7.3 Brazil SOC (Spin on Carbon) Hardmasks Market Size, 2017-2028

6.7.4 Argentina SOC (Spin on Carbon) Hardmasks Market Size, 2017-2028

6.8 Middle East & Africa

6.8.1 By Country - Middle East & Africa SOC (Spin on Carbon) Hardmasks Revenue, 2017-2028

6.8.2 By Country - Middle East & Africa SOC (Spin on Carbon) Hardmasks Sales, 2017-2028

6.8.3 Turkey SOC (Spin on Carbon) Hardmasks Market Size, 2017-2028

6.8.4 Israel SOC (Spin on Carbon) Hardmasks Market Size, 2017-2028

6.8.5 Saudi Arabia SOC (Spin on Carbon) Hardmasks Market Size, 2017-2028

6.8.6 UAE SOC (Spin on Carbon) Hardmasks Market Size, 2017-2028

7 MANUFACTURERS & BRANDS PROFILES

7.1 Samsung SDI

7.1.1 Samsung SDI Corporate Summary

7.1.2 Samsung SDI Business Overview

7.1.3 Samsung SDI SOC (Spin on Carbon) Hardmasks Major Product Offerings

7.1.4 Samsung SDI SOC (Spin on Carbon) Hardmasks Sales and Revenue in Global (2017-2022)

7.1.5 Samsung SDI Key News

7.2 Merck Group

7.2.1 Merck Group Corporate Summary

7.2.2 Merck Group Business Overview

7.2.3 Merck Group SOC (Spin on Carbon) Hardmasks Major Product Offerings

7.2.4 Merck Group SOC (Spin on Carbon) Hardmasks Sales and Revenue in Global (2017-2022)

7.2.5 Merck Group Key News

7.3 JSR

7.3.1 JSR Corporate Summary

7.3.2 JSR Business Overview

7.3.3 JSR SOC (Spin on Carbon) Hardmasks Major Product Offerings

7.3.4 JSR SOC (Spin on Carbon) Hardmasks Sales and Revenue in Global

(2017-2022)

7.3.5 JSR Key News

7.4 Brewer Science

7.4.1 Brewer Science Corporate Summary

7.4.2 Brewer Science Business Overview

7.4.3 Brewer Science SOC (Spin on Carbon) Hardmasks Major Product Offerings

7.4.4 Brewer Science SOC (Spin on Carbon) Hardmasks Sales and Revenue in Global
(2017-2022)

7.4.5 Brewer Science Key News

7.5 Shin-Etsu MicroSi

7.5.1 Shin-Etsu MicroSi Corporate Summary

7.5.2 Shin-Etsu MicroSi Business Overview

7.5.3 Shin-Etsu MicroSi SOC (Spin on Carbon) Hardmasks Major Product Offerings

7.5.4 Shin-Etsu MicroSi SOC (Spin on Carbon) Hardmasks Sales and Revenue in
Global (2017-2022)

7.5.5 Shin-Etsu MicroSi Key News

7.6 YCCHEM

7.6.1 YCCHEM Corporate Summary

7.6.2 YCCHEM Business Overview

7.6.3 YCCHEM SOC (Spin on Carbon) Hardmasks Major Product Offerings

7.6.4 YCCHEM SOC (Spin on Carbon) Hardmasks Sales and Revenue in Global
(2017-2022)

7.6.5 YCCHEM Key News

7.7 Nano-C

7.7.1 Nano-C Corporate Summary

7.7.2 Nano-C Business Overview

7.7.3 Nano-C SOC (Spin on Carbon) Hardmasks Major Product Offerings

7.7.4 Nano-C SOC (Spin on Carbon) Hardmasks Sales and Revenue in Global
(2017-2022)

7.7.5 Nano-C Key News

8 GLOBAL SOC (SPIN ON CARBON) HARDMASKS PRODUCTION CAPACITY, ANALYSIS

8.1 Global SOC (Spin on Carbon) Hardmasks Production Capacity, 2017-2028

8.2 SOC (Spin on Carbon) Hardmasks Production Capacity of Key Manufacturers in
Global Market

8.3 Global SOC (Spin on Carbon) Hardmasks 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 SOC (SPIN ON CARBON) HARDMASKS SUPPLY CHAIN ANALYSIS

10.1 SOC (Spin on Carbon) Hardmasks Industry Value Chain

10.2 SOC (Spin on Carbon) Hardmasks Upstream Market

10.3 SOC (Spin on Carbon) Hardmasks Downstream and Clients

10.4 Marketing Channels Analysis

10.4.1 Marketing Channels

10.4.2 SOC (Spin on Carbon) Hardmasks 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 SOC (Spin on Carbon) Hardmasks in Global Market
- Table 2. Top SOC (Spin on Carbon) Hardmasks Players in Global Market, Ranking by Revenue (2021)
- Table 3. Global SOC (Spin on Carbon) Hardmasks Revenue by Companies, (US\$, Mn), 2017-2022
- Table 4. Global SOC (Spin on Carbon) Hardmasks Revenue Share by Companies, 2017-2022
- Table 5. Global SOC (Spin on Carbon) Hardmasks Sales by Companies, (Cubic Meters), 2017-2022
- Table 6. Global SOC (Spin on Carbon) Hardmasks Sales Share by Companies, 2017-2022
- Table 7. Key Manufacturers SOC (Spin on Carbon) Hardmasks Price (2017-2022) & (K US\$/Cubic Meter)
- Table 8. Global Manufacturers SOC (Spin on Carbon) Hardmasks Product Type
- Table 9. List of Global Tier 1 SOC (Spin on Carbon) Hardmasks Companies, Revenue (US\$, Mn) in 2021 and Market Share
- Table 10. List of Global Tier 2 and Tier 3 SOC (Spin on Carbon) Hardmasks Companies, Revenue (US\$, Mn) in 2021 and Market Share
- Table 11. By Type – Global SOC (Spin on Carbon) Hardmasks Revenue, (US\$, Mn), 2021 & 2028
- Table 12. By Type - Global SOC (Spin on Carbon) Hardmasks Revenue (US\$, Mn), 2017-2022
- Table 13. By Type - Global SOC (Spin on Carbon) Hardmasks Revenue (US\$, Mn), 2023-2028
- Table 14. By Type - Global SOC (Spin on Carbon) Hardmasks Sales (Cubic Meters), 2017-2022
- Table 15. By Type - Global SOC (Spin on Carbon) Hardmasks Sales (Cubic Meters), 2023-2028
- Table 16. By Application – Global SOC (Spin on Carbon) Hardmasks Revenue, (US\$, Mn), 2021 & 2028
- Table 17. By Application - Global SOC (Spin on Carbon) Hardmasks Revenue (US\$, Mn), 2017-2022
- Table 18. By Application - Global SOC (Spin on Carbon) Hardmasks Revenue (US\$, Mn), 2023-2028
- Table 19. By Application - Global SOC (Spin on Carbon) Hardmasks Sales (Cubic

Meters), 2017-2022

Table 20. By Application - Global SOC (Spin on Carbon) Hardmasks Sales (Cubic Meters), 2023-2028

Table 21. By Region – Global SOC (Spin on Carbon) Hardmasks Revenue, (US\$, Mn), 2021 VS 2028

Table 22. By Region - Global SOC (Spin on Carbon) Hardmasks Revenue (US\$, Mn), 2017-2022

Table 23. By Region - Global SOC (Spin on Carbon) Hardmasks Revenue (US\$, Mn), 2023-2028

Table 24. By Region - Global SOC (Spin on Carbon) Hardmasks Sales (Cubic Meters), 2017-2022

Table 25. By Region - Global SOC (Spin on Carbon) Hardmasks Sales (Cubic Meters), 2023-2028

Table 26. By Country - North America SOC (Spin on Carbon) Hardmasks Revenue, (US\$, Mn), 2017-2022

Table 27. By Country - North America SOC (Spin on Carbon) Hardmasks Revenue, (US\$, Mn), 2023-2028

Table 28. By Country - North America SOC (Spin on Carbon) Hardmasks Sales, (Cubic Meters), 2017-2022

Table 29. By Country - North America SOC (Spin on Carbon) Hardmasks Sales, (Cubic Meters), 2023-2028

Table 30. By Country - Europe SOC (Spin on Carbon) Hardmasks Revenue, (US\$, Mn), 2017-2022

Table 31. By Country - Europe SOC (Spin on Carbon) Hardmasks Revenue, (US\$, Mn), 2023-2028

Table 32. By Country - Europe SOC (Spin on Carbon) Hardmasks Sales, (Cubic Meters), 2017-2022

Table 33. By Country - Europe SOC (Spin on Carbon) Hardmasks Sales, (Cubic Meters), 2023-2028

Table 34. By Region - Asia SOC (Spin on Carbon) Hardmasks Revenue, (US\$, Mn), 2017-2022

Table 35. By Region - Asia SOC (Spin on Carbon) Hardmasks Revenue, (US\$, Mn), 2023-2028

Table 36. By Region - Asia SOC (Spin on Carbon) Hardmasks Sales, (Cubic Meters), 2017-2022

Table 37. By Region - Asia SOC (Spin on Carbon) Hardmasks Sales, (Cubic Meters), 2023-2028

Table 38. By Country - South America SOC (Spin on Carbon) Hardmasks Revenue, (US\$, Mn), 2017-2022

Table 39. By Country - South America SOC (Spin on Carbon) Hardmasks Revenue, (US\$, Mn), 2023-2028

Table 40. By Country - South America SOC (Spin on Carbon) Hardmasks Sales, (Cubic Meters), 2017-2022

Table 41. By Country - South America SOC (Spin on Carbon) Hardmasks Sales, (Cubic Meters), 2023-2028

Table 42. By Country - Middle East & Africa SOC (Spin on Carbon) Hardmasks Revenue, (US\$, Mn), 2017-2022

Table 43. By Country - Middle East & Africa SOC (Spin on Carbon) Hardmasks Revenue, (US\$, Mn), 2023-2028

Table 44. By Country - Middle East & Africa SOC (Spin on Carbon) Hardmasks Sales, (Cubic Meters), 2017-2022

Table 45. By Country - Middle East & Africa SOC (Spin on Carbon) Hardmasks Sales, (Cubic Meters), 2023-2028

Table 46. Samsung SDI Corporate Summary

Table 47. Samsung SDI SOC (Spin on Carbon) Hardmasks Product Offerings

Table 48. Samsung SDI SOC (Spin on Carbon) Hardmasks Sales (Cubic Meters), Revenue (US\$, Mn) and Average Price (K US\$/Cubic Meter) (2017-2022)

Table 49. Merck Group Corporate Summary

Table 50. Merck Group SOC (Spin on Carbon) Hardmasks Product Offerings

Table 51. Merck Group SOC (Spin on Carbon) Hardmasks Sales (Cubic Meters), Revenue (US\$, Mn) and Average Price (K US\$/Cubic Meter) (2017-2022)

Table 52. JSR Corporate Summary

Table 53. JSR SOC (Spin on Carbon) Hardmasks Product Offerings

Table 54. JSR SOC (Spin on Carbon) Hardmasks Sales (Cubic Meters), Revenue (US\$, Mn) and Average Price (K US\$/Cubic Meter) (2017-2022)

Table 55. Brewer Science Corporate Summary

Table 56. Brewer Science SOC (Spin on Carbon) Hardmasks Product Offerings

Table 57. Brewer Science SOC (Spin on Carbon) Hardmasks Sales (Cubic Meters), Revenue (US\$, Mn) and Average Price (K US\$/Cubic Meter) (2017-2022)

Table 58. Shin-Etsu MicroSi Corporate Summary

Table 59. Shin-Etsu MicroSi SOC (Spin on Carbon) Hardmasks Product Offerings

Table 60. Shin-Etsu MicroSi SOC (Spin on Carbon) Hardmasks Sales (Cubic Meters), Revenue (US\$, Mn) and Average Price (K US\$/Cubic Meter) (2017-2022)

Table 61. YCCHEM Corporate Summary

Table 62. YCCHEM SOC (Spin on Carbon) Hardmasks Product Offerings

Table 63. YCCHEM SOC (Spin on Carbon) Hardmasks Sales (Cubic Meters), Revenue (US\$, Mn) and Average Price (K US\$/Cubic Meter) (2017-2022)

Table 64. Nano-C Corporate Summary

- Table 65. Nano-C SOC (Spin on Carbon) Hardmasks Product Offerings
- Table 66. Nano-C SOC (Spin on Carbon) Hardmasks Sales (Cubic Meters), Revenue (US\$, Mn) and Average Price (K US\$/Cubic Meter) (2017-2022)
- Table 67. SOC (Spin on Carbon) Hardmasks Production Capacity (Cubic Meters) of Key Manufacturers in Global Market, 2020-2022 (Cubic Meters)
- Table 68. Global SOC (Spin on Carbon) Hardmasks Capacity Market Share of Key Manufacturers, 2020-2022
- Table 69. Global SOC (Spin on Carbon) Hardmasks Production by Region, 2017-2022 (Cubic Meters)
- Table 70. Global SOC (Spin on Carbon) Hardmasks Production by Region, 2023-2028 (Cubic Meters)
- Table 71. SOC (Spin on Carbon) Hardmasks Market Opportunities & Trends in Global Market
- Table 72. SOC (Spin on Carbon) Hardmasks Market Drivers in Global Market
- Table 73. SOC (Spin on Carbon) Hardmasks Market Restraints in Global Market
- Table 74. SOC (Spin on Carbon) Hardmasks Raw Materials
- Table 75. SOC (Spin on Carbon) Hardmasks Raw Materials Suppliers in Global Market
- Table 76. Typical SOC (Spin on Carbon) Hardmasks Downstream
- Table 77. SOC (Spin on Carbon) Hardmasks Downstream Clients in Global Market
- Table 78. SOC (Spin on Carbon) Hardmasks Distributors and Sales Agents in Global Market

List Of Figures

LIST OF FIGURES

Figure 1. SOC (Spin on Carbon) Hardmasks Segment by Type

Figure 2. SOC (Spin on Carbon) Hardmasks Segment by Application

Figure 3. Global SOC (Spin on Carbon) Hardmasks Market Overview: 2021

Figure 4. Key Caveats

Figure 5. Global SOC (Spin on Carbon) Hardmasks Market Size: 2021 VS 2028 (US\$, Mn)

Figure 6. Global SOC (Spin on Carbon) Hardmasks Revenue, 2017-2028 (US\$, Mn)

Figure 7. SOC (Spin on Carbon) Hardmasks Sales in Global Market: 2017-2028 (Cubic Meters)

Figure 8. The Top 3 and 5 Players Market Share by SOC (Spin on Carbon) Hardmasks Revenue in 2021

Figure 9. By Type - Global SOC (Spin on Carbon) Hardmasks Sales Market Share, 2017-2028

Figure 10. By Type - Global SOC (Spin on Carbon) Hardmasks Revenue Market Share, 2017-2028

Figure 11. By Type - Global SOC (Spin on Carbon) Hardmasks Price (K US\$/Cubic Meter), 2017-2028

Figure 12. By Application - Global SOC (Spin on Carbon) Hardmasks Sales Market Share, 2017-2028

Figure 13. By Application - Global SOC (Spin on Carbon) Hardmasks Revenue Market Share, 2017-2028

Figure 14. By Application - Global SOC (Spin on Carbon) Hardmasks Price (K US\$/Cubic Meter), 2017-2028

Figure 15. By Region - Global SOC (Spin on Carbon) Hardmasks Sales Market Share, 2017-2028

Figure 16. By Region - Global SOC (Spin on Carbon) Hardmasks Revenue Market Share, 2017-2028

Figure 17. By Country - North America SOC (Spin on Carbon) Hardmasks Revenue Market Share, 2017-2028

Figure 18. By Country - North America SOC (Spin on Carbon) Hardmasks Sales Market Share, 2017-2028

Figure 19. US SOC (Spin on Carbon) Hardmasks Revenue, (US\$, Mn), 2017-2028

Figure 20. Canada SOC (Spin on Carbon) Hardmasks Revenue, (US\$, Mn), 2017-2028

Figure 21. Mexico SOC (Spin on Carbon) Hardmasks Revenue, (US\$, Mn), 2017-2028

Figure 22. By Country - Europe SOC (Spin on Carbon) Hardmasks Revenue Market

Share, 2017-2028

Figure 23. By Country - Europe SOC (Spin on Carbon) Hardmasks Sales Market Share, 2017-2028

Figure 24. Germany SOC (Spin on Carbon) Hardmasks Revenue, (US\$, Mn), 2017-2028

Figure 25. France SOC (Spin on Carbon) Hardmasks Revenue, (US\$, Mn), 2017-2028

Figure 26. U.K. SOC (Spin on Carbon) Hardmasks Revenue, (US\$, Mn), 2017-2028

Figure 27. Italy SOC (Spin on Carbon) Hardmasks Revenue, (US\$, Mn), 2017-2028

Figure 28. Russia SOC (Spin on Carbon) Hardmasks Revenue, (US\$, Mn), 2017-2028

Figure 29. Nordic Countries SOC (Spin on Carbon) Hardmasks Revenue, (US\$, Mn), 2017-2028

Figure 30. Benelux SOC (Spin on Carbon) Hardmasks Revenue, (US\$, Mn), 2017-2028

Figure 31. By Region - Asia SOC (Spin on Carbon) Hardmasks Revenue Market Share, 2017-2028

Figure 32. By Region - Asia SOC (Spin on Carbon) Hardmasks Sales Market Share, 2017-2028

Figure 33. China SOC (Spin on Carbon) Hardmasks Revenue, (US\$, Mn), 2017-2028

Figure 34. Japan SOC (Spin on Carbon) Hardmasks Revenue, (US\$, Mn), 2017-2028

Figure 35. South Korea SOC (Spin on Carbon) Hardmasks Revenue, (US\$, Mn), 2017-2028

Figure 36. Southeast Asia SOC (Spin on Carbon) Hardmasks Revenue, (US\$, Mn), 2017-2028

Figure 37. India SOC (Spin on Carbon) Hardmasks Revenue, (US\$, Mn), 2017-2028

Figure 38. By Country - South America SOC (Spin on Carbon) Hardmasks Revenue Market Share, 2017-2028

Figure 39. By Country - South America SOC (Spin on Carbon) Hardmasks Sales Market Share, 2017-2028

Figure 40. Brazil SOC (Spin on Carbon) Hardmasks Revenue, (US\$, Mn), 2017-2028

Figure 41. Argentina SOC (Spin on Carbon) Hardmasks Revenue, (US\$, Mn), 2017-2028

Figure 42. By Country - Middle East & Africa SOC (Spin on Carbon) Hardmasks Revenue Market Share, 2017-2028

Figure 43. By Country - Middle East & Africa SOC (Spin on Carbon) Hardmasks Sales Market Share, 2017-2028

Figure 44. Turkey SOC (Spin on Carbon) Hardmasks Revenue, (US\$, Mn), 2017-2028

Figure 45. Israel SOC (Spin on Carbon) Hardmasks Revenue, (US\$, Mn), 2017-2028

Figure 46. Saudi Arabia SOC (Spin on Carbon) Hardmasks Revenue, (US\$, Mn), 2017-2028

Figure 47. UAE SOC (Spin on Carbon) Hardmasks Revenue, (US\$, Mn), 2017-2028

Figure 48. Global SOC (Spin on Carbon) Hardmasks Production Capacity (Cubic Meters), 2017-2028

Figure 49. The Percentage of Production SOC (Spin on Carbon) Hardmasks by Region, 2021 VS 2028

Figure 50. SOC (Spin on Carbon) Hardmasks Industry Value Chain

Figure 51. Marketing Channels

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