

Global SOC (Spin on Carbon) Hardmasks Supply, Demand and Key Producers, 2023-2029

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Abstracts

The global SOC (Spin on Carbon) Hardmasks market size is expected to reach \$ 215 million by 2029, rising at a market growth of 8.5% CAGR during the forecast period (2023-2029).

Global key players of SOC (Spin on Carbon) hardmasks include Samsung SDI, Merck Group, JSR, Brewer Science, etc. The top three players hold a share over 75%.

Asia-Pacific is the largest market, has a share about 62%, followed by North America, and Europe, with share 18% and 16%, separately.

In terms of product type, hot-temperature spin on carbon hardmask is the largest segment, occupied for a share of 80.9%, and in terms of application, semiconductors (excl. Memory) has a share about 50 percent.

Spin-on Carbon (SOC) hardmasks can be used in multilayer lithography processes with high etch resistance, low cost of ownership, low defects, high alignment accuracy, good gap filling and topography planarization. SOC is a high carbon-containing polymer solution. As a coating material, the polymer needs to be dissolved in an organic solvent and insoluble in the upper layer of the coating after curing. The high carbon content (>80%) of the SOC is important for good etch resistance.

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.

This report studies the global SOC (Spin on Carbon) Hardmasks production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for SOC (Spin on Carbon) Hardmasks, and provides market size (US\$ million) and Year-over-Year (YoY) Growth, considering 2022 as the base year. This report explores demand trends and competition, as well as details the characteristics of SOC (Spin on Carbon) Hardmasks that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global SOC (Spin on Carbon) Hardmasks total production and demand, 2018-2029, (m?)

Global SOC (Spin on Carbon) Hardmasks total production value, 2018-2029, (USD Million)

Global SOC (Spin on Carbon) Hardmasks production by region & country, production, value, CAGR, 2018-2029, (USD Million) & (m?)

Global SOC (Spin on Carbon) Hardmasks consumption by region & country, CAGR, 2018-2029 & (m?)

U.S. VS China: SOC (Spin on Carbon) Hardmasks domestic production, consumption, key domestic manufacturers and share

Global SOC (Spin on Carbon) Hardmasks production by manufacturer, production, price, value and market share 2018-2023, (USD Million) & (m?)

Global SOC (Spin on Carbon) Hardmasks production by Type, production, value, CAGR, 2018-2029, (USD Million) & (m?)

Global SOC (Spin on Carbon) Hardmasks production by Application production, value, CAGR, 2018-2029, (USD Million) & (m?).

This reports profiles key players in the global SOC (Spin on Carbon) Hardmasks market based on the following parameters – company overview, production, value, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Samsung SDI, Merck Group, JSR, Brewer Science, Shin-Etsu MicroSi, YCCHEM and Nano-C, etc.

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

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World SOC (Spin on Carbon) Hardmasks market.

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (m?) and average price (K USD/m?) by manufacturer, by Type, and by Application. Data is given for the years 2018-2029 by year with 2022 as the base year, 2023 as the estimate year, and 2024-2029 as the forecast year.

Global SOC (Spin on Carbon) Hardmasks Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global SOC (Spin on Carbon) Hardmasks Market, Segmentation by Type

Hot-Temperature Spin on Carbon Hardmask

Normal Spin on Carbon Hardmask

Global SOC (Spin on Carbon) Hardmasks Market, Segmentation by Application

Semiconductors (excl. Memory)

DRAM

NAND

LCDs

Companies Profiled:

Samsung SDI

Merck Group

JSR

Brewer Science

Shin-Etsu MicroSi

YCCHEM

Nano-C

Key Questions Answered

1. How big is the global SOC (Spin on Carbon) Hardmasks market?

2. What is the demand of the global SOC (Spin on Carbon) Hardmasks market?
3. What is the year over year growth of the global SOC (Spin on Carbon) Hardmasks market?
4. What is the production and production value of the global SOC (Spin on Carbon) Hardmasks market?
5. Who are the key producers in the global SOC (Spin on Carbon) Hardmasks market?

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