

# Global Spin-on Carbon Materials Market 2025 by Manufacturers, Regions, Type and Application, Forecast to 2031

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## Abstracts

According to our (Global Info Research) latest study, the global Spin-on Carbon Materials market size was valued at US\$ million in 2024 and is forecast to a readjusted size of USD million by 2031 with a CAGR of %during review period.

In this report, we will assess the current U.S. tariff framework alongside international policy adaptations, analyzing their effects on competitive market structures, regional economic dynamics, and supply chain resilience.

Spin-on carbon (SOC) material is a liquid polymer-based material used in semiconductor manufacturing, specifically in advanced lithography processes. It is applied as a thin, uniform film onto a semiconductor wafer by a spin-coating technique, where the liquid material is dispensed onto the wafer and spread evenly through rapid spinning. Spin-on carbon serves as a sacrificial layer, often in multi-layer patterning processes, providing etch resistance during the pattern transfer stages. It acts as an intermediate hard mask that helps achieve finer, more precise features on the wafer, particularly in advanced nodes like 10nm or below. After its role is complete, the SOC layer is typically removed, making it a critical component for achieving high-resolution patterns in modern semiconductor devices.

This report is a detailed and comprehensive analysis for global Spin-on Carbon Materials market. Both quantitative and qualitative analyses are presented by manufacturers, by region & country, by Type and by Application. As the market is constantly changing, this report explores the competition, supply and demand trends, as well as key factors that contribute to its changing demands across many markets. Company profiles and product examples of selected competitors, along with market

share estimates of some of the selected leaders for the year 2025, are provided.

### **Key Features:**

Global Spin-on Carbon Materials market size and forecasts, in consumption value (\$ Million), sales quantity (Cubic Meter), and average selling prices (US\$/Cubic Meter), 2020-2031

Global Spin-on Carbon Materials market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (Cubic Meter), and average selling prices (US\$/Cubic Meter), 2020-2031

Global Spin-on Carbon Materials market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (Cubic Meter), and average selling prices (US\$/Cubic Meter), 2020-2031

Global Spin-on Carbon Materials market shares of main players, shipments in revenue (\$ Million), sales quantity (Cubic Meter), and ASP (US\$/Cubic Meter), 2020-2025

### **The Primary Objectives in This Report Are:**

To determine the size of the total market opportunity of global and key countries

To assess the growth potential for Spin-on Carbon Materials

To forecast future growth in each product and end-use market

To assess competitive factors affecting the marketplace

This report profiles key players in the global Spin-on Carbon Materials market based on the following parameters - company overview, sales quantity, revenue, price, gross margin, product portfolio, geographical presence, and key developments. Key companies covered as a part of this study include Samsung SDI, Merck, Shin-Etsu Chemical, YCCHEM, DONGJIN SEMICHEM, Brewer Science, JSR Micro, KOYJ, Irresistible aterials, Nano-C, etc.

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

### **Market Segmentation**

Spin-on Carbon Materials market is split by Type and by Application. For the period

2020-2031, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value. This analysis can help you expand your business by targeting qualified niche markets.

### **Market segment by Type**

Hot-Temperature Spin on Carbon

Normal-temperature Spin on Carbon

### **Market segment by Application**

Logic Devices

Memory Devices

Power Devices

Photonics

Others

### **Major players covered**

Samsung SDI

Merck

Shin-Etsu Chemical

YCCHEM

DONGJIN SEMICHEM

Brewer Science

JSR Micro

KOYJ

Irresistible aterials

Nano-C

DNF

Market segment by region, regional analysis covers

North America (United States, Canada, and Mexico)

Europe (Germany, France, United Kingdom, Russia, Italy, and Rest of Europe)

Asia-Pacific (China, Japan, Korea, India, Southeast Asia, and Australia)

South America (Brazil, Argentina, Colombia, and Rest of South America)

Middle East & Africa (Saudi Arabia, UAE, Egypt, South Africa, and Rest of Middle East & Africa)

**The content of the study subjects, includes a total of 15 chapters:**

Chapter 1, to describe Spin-on Carbon Materials product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Spin-on Carbon Materials, with price, sales quantity, revenue, and global market share of Spin-on Carbon Materials from 2020 to 2025.

Chapter 3, the Spin-on Carbon Materials competitive situation, sales quantity, revenue, and global market share of top manufacturers are analyzed emphatically by landscape contrast.

Chapter 4, the Spin-on Carbon Materials breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2020 to 2031.

Chapter 5 and 6, to segment the sales by Type and by Application, with sales market share and growth rate by Type, by Application, from 2020 to 2031.

Chapter 7, 8, 9, 10 and 11, to break the sales data at the country level, with sales quantity, consumption value, and market share for key countries in the world, from 2020 to 2025.and Spin-on Carbon Materials market forecast, by regions, by Type, and by Application, with sales and revenue, from 2026 to 2031.

Chapter 12, market dynamics, drivers, restraints, trends, and Porters Five Forces analysis.

Chapter 13, the key raw materials and key suppliers, and industry chain of Spin-on Carbon Materials.

Chapter 14 and 15, to describe Spin-on Carbon Materials sales channel, distributors, customers, research findings and conclusion.

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