

# Global Drone Silicon-Carbon Anode Market 2026 by Manufacturers, Regions, Type and Application, Forecast to 2032

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## Abstracts

According to our (Global Info Research) latest study, the global Drone Silicon-Carbon Anode market size was valued at US\$ 57.61 million in 2025 and is forecast to a readjusted size of US\$ 155 million by 2032 with a CAGR of 15.1% during review period.

Drone Silicon-Carbon Anode is a high-energy-density lithium-ion battery anode material specifically engineered for unmanned aerial vehicle (UAV) applications. By incorporating nanoscale silicon into a carbon matrix, it significantly enhances specific capacity and energy density while maintaining structural stability and long cycle life. The material offers advantages such as lightweight structure, high energy density, and strong fast charge/discharge capability, enabling extended UAV flight duration and improved operational efficiency. Production in 2025 totaled 2,828 tons, with an average price of \$19,800 per ton. In 2025, the industry's capacity utilization rate reached 83%, while the average gross margin was approximately 28%. Upstream materials mainly include metallic silicon, silane, graphite, and porous carbon, with representative suppliers including Elkem, Hemlock Semiconductor, and Eastern Hope Group. The midstream segment focuses on processes such as nanosilicon doping, material blending, coating, and particle size control to ensure material uniformity, structural integrity, and electrochemical performance. Downstream applications are primarily in military UAVs and commercial UAVs, with representative customers including DJI, Northrop Grumman, and China Aerospace Science and Industry Corporation.

This report is a detailed and comprehensive analysis for global Drone Silicon-Carbon Anode 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 Drone Silicon-Carbon Anode market size and forecasts, in consumption value (\$ Million), sales quantity (Tons), and average selling prices (US\$/Ton), 2021-2032

Global Drone Silicon-Carbon Anode market size and forecasts by region and country, in consumption value (\$ Million), sales quantity (Tons), and average selling prices (US\$/Ton), 2021-2032

Global Drone Silicon-Carbon Anode market size and forecasts, by Type and by Application, in consumption value (\$ Million), sales quantity (Tons), and average selling prices (US\$/Ton), 2021-2032

Global Drone Silicon-Carbon Anode market shares of main players, shipments in revenue (\$ Million), sales quantity (Tons), and ASP (US\$/Ton), 2021-2026

#### 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 Drone Silicon-Carbon Anode

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 Drone Silicon-Carbon Anode 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 Group14 Technologies (USA), Sila Nanotechnologies (USA), Amprius (USA), Zhide Battery (China), Nexeon (UK), Ningbo Shanshan (China), Putailai (China), BTR New Material Group (China), SG Nano (China), Tianmulake Excellent Anode Materials Co (China), etc.

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

## Market Segmentation

Drone Silicon-Carbon Anode market is split by Type and by Application. For the period 2021-2032, 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

Nano Silicon

Micro Silicon

Silicon Oxide (SiOx)

### Market segment by Method

Mechanical Ball Milling

Chemical Vapor Deposition(CVD)

Others

### Market segment by Specific Capacity

Specific Capacity ? 1,000 mAh/g

Specific Capacity ? 1,000 mAh/g

### Market segment by Application

Military Drone

## Commercial Drone

### Major players covered

Group14 Technologies (USA)

Sila Nanotechnologies (USA)

Amprius (USA)

Zhide Battery (China)

Nexeon (UK)

Ningbo Shanshan (China)

Putailai (China)

BTR New Material Group (China)

SG Nano (China)

Tianmulake Excellent Anode Materials Co (China)

Shin Etsu Chemical (Japan)

### 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 Drone Silicon-Carbon Anode product scope, market overview, market estimation caveats and base year.

Chapter 2, to profile the top manufacturers of Drone Silicon-Carbon Anode, with price, sales quantity, revenue, and global market share of Drone Silicon-Carbon Anode from 2021 to 2026.

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

Chapter 4, the Drone Silicon-Carbon Anode breakdown data are shown at the regional level, to show the sales quantity, consumption value, and growth by regions, from 2021 to 2032.

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 2021 to 2032.

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 2021 to 2026. and Drone Silicon-Carbon Anode market forecast, by regions, by Type, and by Application, with sales and revenue, from 2027 to 2032.

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 Drone Silicon-Carbon Anode.

Chapter 14 and 15, to describe Drone Silicon-Carbon Anode sales channel, distributors, customers, research findings and conclusion.

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