

Global Drone Silicon-Carbon Anode Supply, Demand and Key Producers, 2026-2032

<https://marketpublishers.com/r/G58EF39B1883EN.html>

Date: June 2026

Pages: 118

Price: US\$ 4,480.00 (Single User License)

ID: G58EF39B1883EN

Abstracts

The global Drone Silicon-Carbon Anode market size is expected to reach \$ 155 million by 2032, rising at a market growth of 15.1% CAGR during the forecast period (2026-2032).

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 studies the global Drone Silicon-Carbon Anode production, demand, key manufacturers, and key regions.

This report is a detailed and comprehensive analysis of the world market for Drone Silicon-Carbon Anode and provides market size (US\$ million) and Year-over-Year

(YoY) Growth, considering 2025 as the base year. This report explores demand trends and competition, as well as details the characteristics of Drone Silicon-Carbon Anode that contribute to its increasing demand across many markets.

Highlights and key features of the study

Global Drone Silicon-Carbon Anode total production and demand, 2021-2032, (Tons)

Global Drone Silicon-Carbon Anode total production value, 2021-2032, (USD Million)

Global Drone Silicon-Carbon Anode production by region & country, production, value, CAGR, 2021-2032, (USD Million) & (Tons), (based on production site)

Global Drone Silicon-Carbon Anode consumption by region & country, CAGR, 2021-2032 & (Tons)

U.S. VS China: Drone Silicon-Carbon Anode domestic production, consumption, key domestic manufacturers and share

Global Drone Silicon-Carbon Anode production by manufacturer, production, price, value and market share 2021-2026, (USD Million) & (Tons)

Global Drone Silicon-Carbon Anode production by Type, production, value, CAGR, 2021-2032, (USD Million) & (Tons)

Global Drone Silicon-Carbon Anode production by Application, production, value, CAGR, 2021-2032, (USD Million) & (Tons)

This report profiles key players in the global Drone Silicon-Carbon Anode 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 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.

Stakeholders would have ease in decision-making through various strategy matrices used in analyzing the World Drone Silicon-Carbon Anode market

Detailed Segmentation:

Each section contains quantitative market data including market by value (US\$ Millions), volume (production, consumption) & (Tons) and average price (US\$/Ton) by manufacturer, by Type, and by Application. Data is given for the years 2021-2032 by

year with 2025 as the base year, 2026 as the estimate year, and 2027-2032 as the forecast year.

Global Drone Silicon-Carbon Anode Market, By Region:

United States

China

Europe

Japan

South Korea

ASEAN

India

Rest of World

Global Drone Silicon-Carbon Anode Market, Segmentation by Type:

Nano Silicon

Micro Silicon

Silicon Oxide (SiOx)

Global Drone Silicon-Carbon Anode Market, Segmentation by Method:

Mechanical Ball Milling

Chemical Vapor Deposition(CVD)

Others

Global Drone Silicon-Carbon Anode Market, Segmentation by Specific Capacity:

Specific Capacity ? 1,000 mAh/g

Specific Capacity ? 1,000 mAh/g

Global Drone Silicon-Carbon Anode Market, Segmentation by Application:

Military Drone

Commercial Drone

Companies Profiled:

Group14 Technologies (USA)

Sila Nanotechnologies (USA)

Ampricus (USA)

Zhide Battery (China)

Nexxon (UK)

Ningbo Shanshan (China)

Putailai (China)

BTR New Material Group (China)

SG Nano (China)

Tianmulake Excellent Anode Materials Co (China)

Shin Etsu Chemical (Japan)

Key Questions Answered:

1. How big is the global Drone Silicon-Carbon Anode market?
2. What is the demand of the global Drone Silicon-Carbon Anode market?
3. What is the year over year growth of the global Drone Silicon-Carbon Anode market?
4. What is the production and production value of the global Drone Silicon-Carbon Anode market?
5. Who are the key producers in the global Drone Silicon-Carbon Anode market?
6. What are the growth factors driving the market demand?

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