

Global Silicon Based Negative Material Market Growth 2024-2030

<https://marketpublishers.com/r/GEFAFB6A966BEN.html>

Date: December 2023

Pages: 131

Price: US\$ 3,660.00 (Single User License)

ID: GEFAFB6A966BEN

Abstracts

The report requires updating with new data and is sent in 48 hours after order is placed.

According to our LPI (LP Information) latest study, the global Silicon Based Negative Material market size was valued at US\$ 423.6 million in 2023. With growing demand in downstream market, the Silicon Based Negative Material is forecast to a readjusted size of US\$ 5296.1 million by 2030 with a CAGR of 43.5% during review period.

The research report highlights the growth potential of the global Silicon Based Negative Material market. Silicon Based Negative Material are expected to show stable growth in the future market. However, product differentiation, reducing costs, and supply chain optimization remain crucial for the widespread adoption of Silicon Based Negative Material. Market players need to invest in research and development, forge strategic partnerships, and align their offerings with evolving consumer preferences to capitalize on the immense opportunities presented by the Silicon Based Negative Material market.

Silicon has been recognized as a one of the most promising anode materials to replace currently used graphite in the anodes of Li-ion batteries due to its high gravimetric theoretical lithium storage capacity. Fast charging is feasible due to the high porosity inherent to silicon anode solutions, while costs can be reduced because of silicon materials' high capacity, which results in lower material requirements. Silicon anodes are also considered safer because they help reduce the risk of lithium plating and dendrite formation, even though cycle and calendar life may need to be further demonstrated.

The global market for Silicone Anode Material estimated at US\$ 539.22 million in the year 2022, is projected to reach a revised size of US\$ 4,400.15 million by 2029, growing

at a CAGR of 41.89% during the forecast period 2023-2029. The global key manufacturers of Silicon Anode Material include BTR, Shin-Etsu Chemical, Daejoo Electronic Materials, Posco Chemical, Showa Denko, Tokai Carbon, Nippon Carbon, Shanghai Putailai (Jiangxi Zichen), and Shanshan Corporation, etc. In 2022, the global top three players had a share approximately 91% in terms of revenue. The growing demand for electric vehicles along with high demand for lithium-ion batteries for industrial applications is driving the market growth. Moreover, strategies such as agreements and plant expansions undertaken by several prominent players in the lithium-ion battery anode industry are further fueling the lithium-ion battery anode industry growth across the globe.

Key Features:

The report on Silicon Based Negative Material market reflects various aspects and provide valuable insights into the industry.

Market Size and Growth: The research report provide an overview of the current size and growth of the Silicon Based Negative Material market. It may include historical data, market segmentation by Type (e.g., Silicon Oxygen Negative Material, Silicon Carbon Negative Material), and regional breakdowns.

Market Drivers and Challenges: The report can identify and analyse the factors driving the growth of the Silicon Based Negative Material market, such as government regulations, environmental concerns, technological advancements, and changing consumer preferences. It can also highlight the challenges faced by the industry, including infrastructure limitations, range anxiety, and high upfront costs.

Competitive Landscape: The research report provides analysis of the competitive landscape within the Silicon Based Negative Material market. It includes profiles of key players, their market share, strategies, and product offerings. The report can also highlight emerging players and their potential impact on the market.

Technological Developments: The research report can delve into the latest technological developments in the Silicon Based Negative Material industry. This include advancements in Silicon Based Negative Material technology, Silicon Based Negative Material new entrants, Silicon Based Negative Material new investment, and other innovations that are shaping the future of Silicon Based Negative Material.

Downstream Procumbent Preference: The report can shed light on customer

procumbent behaviour and adoption trends in the Silicon Based Negative Material market. It includes factors influencing customer ' purchasing decisions, preferences for Silicon Based Negative Material product.

Government Policies and Incentives: The research report analyse the impact of government policies and incentives on the Silicon Based Negative Material market. This may include an assessment of regulatory frameworks, subsidies, tax incentives, and other measures aimed at promoting Silicon Based Negative Material market. The report also evaluates the effectiveness of these policies in driving market growth.

Environmental Impact and Sustainability: The research report assess the environmental impact and sustainability aspects of the Silicon Based Negative Material market.

Market Forecasts and Future Outlook: Based on the analysis conducted, the research report provide market forecasts and outlook for the Silicon Based Negative Material industry. This includes projections of market size, growth rates, regional trends, and predictions on technological advancements and policy developments.

Recommendations and Opportunities: The report conclude with recommendations for industry stakeholders, policymakers, and investors. It highlights potential opportunities for market players to capitalize on emerging trends, overcome challenges, and contribute to the growth and development of the Silicon Based Negative Material market.

Market Segmentation:

Silicon Based Negative Material market is split by Type and by Application. For the period 2019-2030, the growth among segments provides accurate calculations and forecasts for consumption value by Type, and by Application in terms of volume and value.

Segmentation by type

Silicon Oxygen Negative Material

Silicon Carbon Negative Material

Others

Segmentation by application

Power Tools

Power Battery

Consumer Electronics

This report also splits the market by region:

Americas

United States

Canada

Mexico

Brazil

APAC

China

Japan

Korea

Southeast Asia

India

Australia

Europe

Germany

France

UK

Italy

Russia

Middle East & Africa

Egypt

South Africa

Israel

Turkey

GCC Countries

The below companies that are profiled have been selected based on inputs gathered from primary experts and analyzing the company's coverage, product portfolio, its market penetration.

BTR New Material Group

Shin-Etsu

Daejoo Electronic Materials

Tianmulake Excellent Anode Materials

Gotion

Posco Chemical

Group14

Showa Denko

Amprius

Shandong Shida Shenghua Group

Guangdong Kaijin New Energy Technology

Guibao Science and Technology

Ningbo Shanshan

Shanghai Pu Tailai New Energy Technology

Shenzhen City Cheung Fenghua Technology

Jereh Group

Nexeon

Zhengtuo New Energy Technology

Key Questions Addressed in this Report

What is the 10-year outlook for the global Silicon Based Negative Material market?

What factors are driving Silicon Based Negative Material market growth, globally and by region?

Which technologies are poised for the fastest growth by market and region?

How do Silicon Based Negative Material market opportunities vary by end market size?

How does Silicon Based Negative Material break out type, application?

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