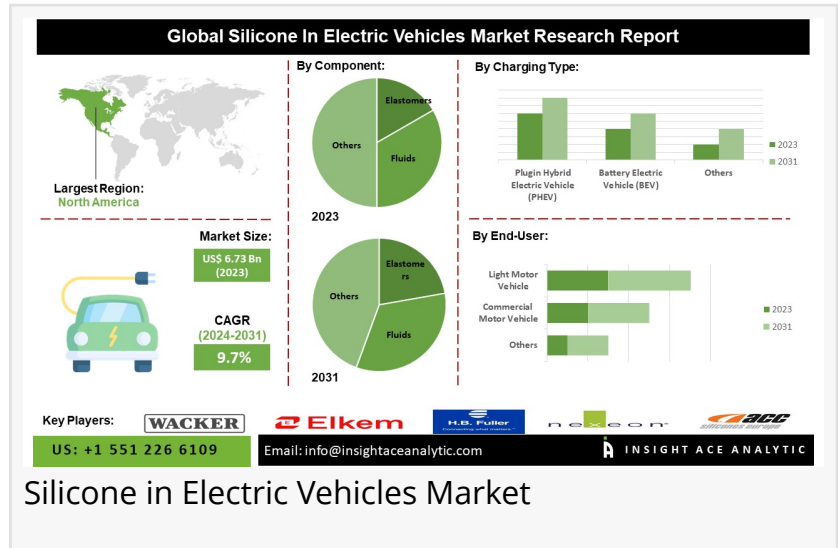


# Silicone in Electric Vehicles Market | Know How Silicone Convergence is Revolutionizing the EV Industry

JERSEY, NJ, US, April 1, 2024  
 /EINPresswire.com/ -- InsightAce Analytic Pvt. Ltd. announces the release of a market assessment report on the "Global [Silicone in Electric Vehicles Market](#) - (By Product (Elastomers, Fluids, Resins), By Charging Type (Plugin Hybrid Electric Vehicle (PHEV), Battery Electric Vehicle (BEV)), By Vehicle Type (Light Motor Vehicle (LMV), Commercial Motor Vehicle (CMV))), Trends, Industry Competition Analysis, Revenue and Forecast To 2031."



According to the latest research by InsightAce Analytic, the Global Silicone in Electric Vehicles Market is valued at US\$ 6.73 Bn in 2023, and it is expected to reach US\$ 13.89 Bn by 2031, with a CAGR of 9.7% during the forecast period of 2024-2031.



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*InsightAce Analytic*

Silicone is widely used in electric vehicles (EVs) because of its outstanding thermal stability, electrical insulating capabilities, and tolerance to high temperatures. It is used in electric vehicles (EVs) for a variety of components, including adhesives, sealants, cables, battery systems, and electric motors. The market is experiencing expansion due to the increasing demand for electric vehicles. Increased favourable laws aimed at cutting air pollution and greenhouse gas emissions, which are affecting the growth prognosis for electric vehicles, further encourage this. An

array of financial instruments, including tax incentives, purchase incentives, tax exemptions, tax rebates, bonuses, and more, are also contributing to the growth of electric vehicles.

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#### Recent Developments:

- In Feb 2024, The WACKER Group presented product solutions utilizing silicone materials tailored to distinct industrial sectors. Silicone gels utilized in wound care, non-post curing liquid silicone rubber implemented in the food industry and medical technology, and self-adhesive liquid silicone rubber grades capable of adhering to polycarbonate and other high-performance polymers were areas of particular interest. Also prominent were products designed for electromobility applications and silicones that conserved resources.
- March 2023, Shin-Etsu Chemical developed a silicone rubber composition specifically designed for molding, with the purpose of serving as the best insulating coating material for high-voltage wires found in cars.

#### List of Prominent Players in the Silicone in Electric Vehicles Market:

- Wacker Chemie AG
- Elkem Silicones
- Dow chemical company
- H.B. Fuller Company
- Nexxon Limited
- ACC Silicones Ltd.
- KCC Corporation
- Rogers Corporation
- LORD Corporation
- Shin-Etsu Chemical Co., Ltd.
- Evonik Industries AG
- Other Market Players

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#### Market Dynamics:

##### Drivers-

The market for silicone in electric vehicles (EVs) is experiencing vigorous innovation on a number of fronts. Manufacturers are stepping up efforts to improve the performance, longevity, and safety of EV components using silicone-based solutions as the market for EVs continues to soar due to environmental concerns and regulatory requirements. Therefore, it is anticipated that

silicone will rise in the electric vehicle industry over the projected time. Furthermore, research and development are focused on creating sophisticated silicone-based thermal interface materials (TIMs) to solve EVs' heat dissipation issues. These materials are essential for maximizing the dependability and performance of electric vehicle systems, especially in hot climates.

#### Challenges:

There may be a barrier to silicones' broad use in the EV industry because they can be more expensive than alternative materials. First and foremost, cost-effectiveness is important. Long-term performance in some EV applications may still be an issue, even though silicone is known for its durability. The reliability of certain components, like battery seals or thermal management systems, may be impacted by variables, including deterioration over time from exposure to heat, moisture, and other external factors. Manufacturers are making an effort to maintain EV pricing that is competitive with those of conventional cars. Although silicone is a good insulator, its conductivity is lower than that of metals like copper or aluminium. The growth of the market may be hampered if manufacturers choose to use less expensive silicone substitutes for some components in order to lower total production costs.

#### Regional Trends:

The Asia Pacific silicone in electric vehicles market is expected to record a large market revenue share and projected to grow at a high CAGR in the near future. The region's increasing urbanization has increased traffic congestion and the amount of vehicles, which exacerbates air and noise pollution issues. It is imperative that one should encourage the use of low-emission cars, such as electric vehicles, in light of these issues. Consequently, during the course of the forecast period, the rise in electric vehicles may raise the need for silicone products. Besides, North America had a remarkable share of the market. To combat climate change as well as reduce greenhouse gas emissions, governments across North America are gradually enacting laws and regulations that promote the use of electric vehicles. Significant expenditures in EV infrastructure and customer incentives are propelling the region's adoption of electric vehicles.

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#### Segmentation of Silicone in Electric Vehicles Market-

##### By Product-

- Elastomers
- Fluids
- Resins

- Others

#### By Charging Type-

- Plugin Hybrid Electric Vehicle (PHEV)
- Battery Electric Vehicle (BEV)

#### By Vehicle Type-

- Light Motor Vehicle
- Commercial Motor Vehicle

#### By Region-

##### North America-

- The US
- Canada
- Mexico

##### Europe-

- Germany
- The UK
- France
- Italy
- Spain
- Rest of Europe

##### Asia-Pacific-

- China
- Japan
- India
- South Korea
- South East Asia
- Rest of Asia Pacific

##### Latin America-

- Brazil
- Argentina
- Rest of Latin America

##### Middle East & Africa-

- GCC Countries
- South Africa
- Rest of Middle East and Africa

Priyanka Tilekar  
Insightace Analytic Pvt. Ltd.  
+91 94208 58007  
[email us here](#)

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