

# Your EV tire choice matters

## Education

The average electric car weighs **over 4,500 pounds** while the average fuel powered car can weigh between 2,500-4,000 lbs. That makes **your EV about 30% heavier** than any other gas-powered car. This is why your tires are so important. They are your only connection to the road when you are driving. Tire is our middle name, you can trust us. Let's explain why you need EV specific tires and help you choose the best option.

**When choosing the right tires for your EV, there are several important factors to remember.**

The **load rating** of the tire is crucial as EVs are generally heavier due to their battery packs. Ensure that the tires **can support this additional weight** is essential for both safety and performance.

Consider the **rolling resistance** of the tire. Low rolling resistance tires are beneficial as they help maximize the vehicle's range **by reducing energy consumption** during driving.

**Noise reduction** is another key factor, as EVs operate quietly and tires with **optimized tread patterns** and materials can significantly reduce road noise, enhancing the overall driving experience.

## Weight

The batteries installed in electric cars are a lot heavier than a full fuel tank, so the tires must be designed to bear correspondingly higher loads without compromising

performance and safety. Electric vehicles (EVs) need specific tires due to several unique requirements and driving dynamics inherent to such vehicles.

## **Torque**

Unlike traditional automotive tires, EV-specific tires must handle the instantaneous torque delivered by electric motors, which can put greater stress on the tire compound and structure. This high torque can lead to increased wear if the tires are not specially designed to accommodate it. To address this, EV tires are formulated with special rubber compounds that not only provide enhanced durability but also ensure better traction and grip, particularly during acceleration.

The reinforced structure of these tires is designed to distribute the stress evenly, while maintaining optimal performance and safety. These specialized tires help in improving the overall handling of the vehicle, ensuring a smoother and more controlled driving experience even under sudden acceleration.

## **Grip**

One of the primary differences lies in the tire compound. EV tires are constructed using unique rubber formulations designed to withstand the higher torque output from electric motors, providing better grip and reducing wear and tear.

Additionally, these tires are built to support the added weight of EV battery packs, often resulting in a sturdier construction compared to traditional tires. Another distinct feature is the tread design; EV tires typically have patterns that reduce rolling resistance, which is crucial for preserving battery life and extending driving range.

## **Road Noise**

EVs operate much more quietly than gas-powered cars. Specialized tires are essential to minimize road noise and ensure a pleasant driving experience. The EV-specific tires are designed to offer low rolling resistance, which is essential for maximizing the vehicle's range on a single charge, improving overall efficiency.

EV tires frequently incorporate advanced technologies like noise-canceling foam and unique sidewall constructions to further enhance performance and comfort levels, setting them apart from their conventional counterparts. The combination of these features ensures a serene driving experience, allowing EV owners to fully enjoy the quiet efficiency of their electric vehicle without the distraction of excessive road noise.

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