

Cobalt free batteries for samsung

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Samsung recently made a splash in the industry by showcasing its recent advancements in battery technology, especially related to solid-state batteries.

At the SNE Battery Day 2024 expo in Seoul, South Korea, the company revealed that its pilot solid-state battery production line is now fully operational.

"We built a pilot line last year to mass-produce all-solid-state batteries by 2027," said Samsung SDI, as reported by The Elec.

Moreover, the battery's initial batches have already been delivered to EV manufacturers for testing.

"We supplied samples to customers from the end of last year to the beginning of this year and are receiving positive feedback," Samsung SDI stated.

Notably, these batteries could power electric vehicles with a 600-mile range, charge in 9 minutes, and have a lifespan of 20 years.

These solid-state batteries are expected to be smaller, lighter, and safer than the lithium-ion batteries currently used in most electric vehicles. They hold significant potential to revolutionize the EV industry.

"All-solid-state batteries can enhance safety by replacing liquid components with solid ones. When used in the same pack size as existing products, they reduce weight and take up less space," highlighted the company.

However, due to their high production costs, these batteries' initial application will be limited to the "super premium" EV segment.

The "super premium" segment here implies a driving range of around 600 miles per charge. In addition, Samsung will be introducing high-nickel NCS products for the premium segment.

Samsung's oxide solid-state battery technology boasts an energy density of 500 Wh/kg, nearly double the 270 Wh/kg density of mainstream EV batteries.

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