



Kenya alsym battery

Is alsym energy flammable?

Alsym(TM) Energy has developed a high-performance, inherently non-flammable, non-toxic, non-lithium battery chemistry. It's a low-cost solution that supports a wide range of discharge durations.

What makes alsym a good battery company?

Our team and partners are striving to make battery production simple, affordable, and sustainable for the long term. Mukesh Chatter is the President, CEO and co-founder of Alsym Energy, a battery technology company developing high-performance, low-cost batteries to enable a zero-carbon electrified future for all.

What makes alsym different from lithium-ion batteries?

The company explains what differentiates its battery technology on its website: While Alsym and lithium-ion cells may look similar, we take advantage of inherently non-flammable and non-toxic materials, and our electrolyte is water-based. Alsym cells are also inherently dendrite-free and immune to conditions that could lead to thermal runaway.

What are alsym batteries made of?

Although the full makeup of Alsym's battery is still under wraps as the company waits to be granted patents, one of Alsym's electrodes is made mostly of manganese oxide while the other is primarily made of a metal oxide. The electrolyte is primarily water. There are several advantages to Alsym's new battery chemistry.

Where are alsym batteries made?

Alsym has been manufacturing prototypes at a small facility in Woburn, Massachusetts for the last two years. Pictured is a view of the Alsym facility. Lithium-ion batteries are the workhorses of home electronics and are powering an electric revolution in transportation. But they are not suitable for every application.

What is alsym green battery chemistry?

Alsym Green's metal-oxide battery chemistry leverages a mechanism analogous to the one found in lithium-ion batteries, with the working ion shuttling between the anode and cathode. Alsym Green cells are also designed similarly to lithium-ion, with a cathode, anode, separator, and liquid electrolyte.

Case Study: Alsym Energy A Vision for a Greener Future Alsym Energy, a leading player in the battery technology space, exemplifies the potential for innovation in Saudi Arabia. The company has raised significant funding from renowned investors including Tata Limited and Thomvest Ventures to advance its R&D efforts. Alsym's focus on non-lithium ...

In today's battery energy storage landscape, lithium-ion runs the show, making up 99% of new energy storage capacity over the last few years. But that is not to say other contenders don't have a leg up on lithium when it



The European Parliament's commitment to banning new internal combustion engine cars by 2035 underscores the urgency of developing a more sustainable battery supply chain. As demand for key battery materials rises, the European Union (EU) is also preparing the industry for the measures of the EU Battery Regulation Amendment, a comprehensive ...

According to Alsym, the battery will be suitable for applications requiring discharge durations of between 4 and 110 hours and can be fully charged in just 4 hours. The company describes this versatility to go from ...

After evaluating many different chemistries, the founders settled on Alsym's current approach, which was finalized in 2020. Although the full makeup of Alsym's battery is still under wraps as the company waits to be granted patents, one of Alsym's electrodes is made mostly of manganese oxide while the other is primarily made of a metal oxide.

We have developed an inherently non-flammable, non-toxic, non-lithium battery chemistry with system-level energy densities approaching lithium-ion and the ability to operate at elevated temperatures. Alsym Green is the only stationary ...

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