

United arab emirates lithium-iron-phosphate batteries lfp

Lithium iron phosphate ( $\text{LiFePO}_4$  - CAS number 15365-14-7) also known as lithium ferro phosphate (LFP), for use as the cathode material for lithium-ion batteries (LIBs).  $\text{LiFePO}_4$  has high specific energy (90 - 170 Wh Kg-1), high volumetric energy density (1200 kJ L-1) and offer good cyclic performance (~1500 cycles) with nominal cell voltage (~3.2 Vs. Li/Li+).

The triphylite lithium iron phosphate ( $\text{LiFePO}_4$ ) belongs to the olivine family of lithium ortho-phosphates.  $\text{LiFePO}_4$  has an orthorhombic crystal lattice structure in the space group Pnma. The unit cell structure is represented by corner-shared  $\text{FeO}_6$  octahedra and edge-shared  $\text{LiO}_6$  octahedra running parallel to the b-axis, linked together by the  $\text{PO}_4$  tetrahedra.

When lithium iron phosphate is coated with 2 wt% of the electrochemically exfoliated graphene layers, it is able to reach 208 mAh g-1 in specific capacity. Binder-free SWCNT modified LFPO cathode delivers a superior rate capacity of 161.5 mAh g-1 at 0.5 C and 130.2 mAh g-1 at 5 C, with a high-rate capacity retention of 87.4% after 200 cycles at 2 C.

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The crown jewel of the RK Group, Titan Lithium is a state-of-the-art Lithium Refinery in Abu Dhabi, UAE. Set to become a pivotal force in the global Lithium supply chain

Titan Lithium is the flagship Lithium Refinery under construction in the UAE. It aims to drive sustainability forward by supplying Battery grade Lithium Carbonate and Lithium Hydroxide to Battery makers and EV OEMs around the world.

Titan Lithium operates from two strategic locations in the UAE. Our cutting-edge Lithium Refinery is situated in the KEZAD Industrial Zone, Abu Dhabi, where we produce battery-grade Lithium Carbonate and Lithium Hydroxide. This facility is the heart of our operations, ensuring a reliable supply to meet global demands. Complementing this, our corporate headquarters in Dubai oversees our strategic initiatives and global partnerships, positioning us at the forefront of the Lithium supply chain.

At Titan Lithium, we pride ourselves on having assembled a global all-star manufacturing team dedicated to driving excellence in lithium refining. Our core senior management team boasts an incredible 120+ years of cumulative experience in large-scale, complex Lithium manufacturing across multiple regions.

Many of our core team members are recognized industry experts, holding multiple patents and publications.

Among them are former senior employees from Tesla and Albemarle, who bring invaluable manufacturing expertise and deep industry insights. This diverse and talented group ensures that Titan Lithium not only meets but exceeds industry standards, continually innovating and adapting to future technological developments.

To further enhance our in-house technical capabilities, we have partnered with a world-renowned engineering company to use latest processes and techniques to deliver the best quality products in the market.

The RK group is a global conglomerate which owns and operates 4 different verticals - Healthcare, IT, Hospitality, and Commercial Real Estate &#8211; across 3 continents employing 7000+ people worldwide.

Mr. Vaibhav Jain, the Joint Chairman of the board, is a well-known industry leader with a reputation for executing successful projects. He was recently recognized by Elite magazine as one of "50 most Influential Indians in the world".

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