NANOSHEL
Creating Miracles in Black

NS6130-02-261

LITHIUM IRON PHOSPHATE Nanoparticles

Quick Facts

Product	:	Lithium Iron Phosphate Nanoparticles
Stock No	:	NS6130-02-261
CAS	:	15365-14-7
Molecular Formula	:	$LiFePO_4$
Form	:	Powder

Purity
99.9%

Technical Specification

Molecular Weight	Density	Melting Point	APS
157.75 g/mol	1.33 g/cm³	>300 °C	40nm

LiFePO4 has emerged as the cathode material of choice for high-power lithium-ion batteries as it offers much higher energy density and excellent structural stability than other cathode materials. Lithium is the lightest of all metals, has the greatest electrochemical potential and provides the largest specific energy per weight. Rechargeable batteries with lithium metal on the anode (negative electrodes) could provide extraordinarily high energy densities, however, cycling produced unwanted dendrites on the anode that could penetrate the separator and cause an electrical short.

Application

- ✓ Lithium ion batteries
- ✓ Use for power tools, electric vehicles, solar energy installations
- ✓ Used in electric vehicles (EV) and distributed energy storage
- ✓ Used in OLPC XO education laptops.

$LiFePO_4$
APS 40nm

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ISO 9001:2015
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