

Passivated

LITHIUM NANOPOWDER

Quick FACTS

- ✓ Product : Passivated Lithium Nanopowder
- ✓ Stock No : NS6130-01-188A
- ✓ CAS : 7439-93-2
- ✓ Color : White
- ✓ Form : Powder

Lithium is a Block S, Period 2 element. It is a soft, light, alkali metal that is widely employed in heat transfer applications. Lithium, a fundamental ingredient for batteries, is also a therapeutic element with properties to prompt the cellular mechanisms of bone tissue formation. Local application of Li⁺ ions improves bone healing by incrementing the bone mineral density or accelerating bone formation. Likewise, bioceramics such as calcium phosphate cement and microbioactive glass have exhibited superior properties such as osteogenic and angiogenic when doped with lithium. Several methods have been suggested to synthesize lithium nanoparticles such as chemical precipitation, sol-gel, electrothermal decomposition, solvothermal, hydrothermal, combustion synthesis, sonochemical methods, reverse micelle method, microwave hydrothermal, microwave solvothermal and microwave combustion methods. Lithium-ion batteries are widely utilized as the main power sources for portable electronics and have a promising application in future transportation and large-scale energy storage because of their high energy density, improved rate capability and flexibility.



CE ISO 9001:2015
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ISO: 13485:2016/20ZICE4588M
CE: 20ZICE4589C

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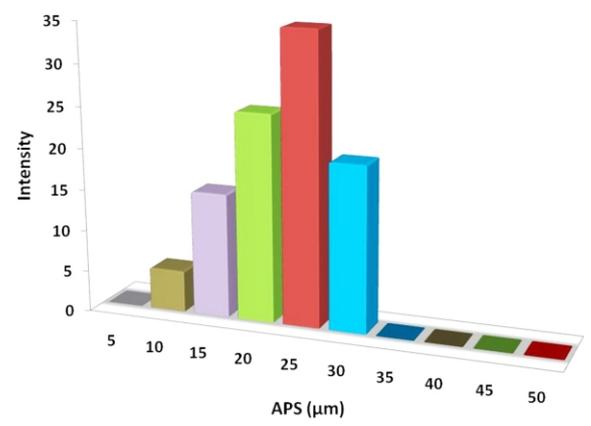
Applications

- ✓ In lithium ion batteries to both accelerate charge and discharge
- ✓ In plastics
- ✓ Nanowires
- ✓ Nanofibers
- ✓ Coatings
- ✓ Textiles
- ✓ In alloy and catalyst



Packing Sizes Available

10ml, 25ml, 50ml, 100ml, 250ml, 500ml, 1Ltr & Bulk orders



Technical SPECIFICATION

Molecular Formula	Molecular Weight	Density	Melting Point	Boiling Point
Li	6.94 g/mol	0.534g/cm ³	180.5 °C	1330 °C

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