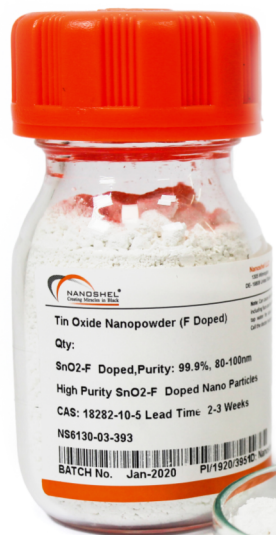


# TIN OXIDE Nanopowder

Tin oxide nanoparticles are faceted with a high surface area and diamagnetic properties. Tin oxide nanoparticles are semiconductor with wide band gap. Tin oxide is one of the most important materials due to its high degree of transparency in the visible spectrum strong physical and chemical interaction with adsorbed species

Recent research studied on tin oxide unique characteristics such as thermal stability, low cost, high gas sensing abilities, low response time and fast recovery makes it a promising material for gas sensors. In addition, it has potential applications in detecting polluted or toxic gases and other species, as well as successful use in optoelectronic devices. Tin(IV) oxide nanopowder is a class of electrode material that can be used in the fabrication of lithium-ion batteries. Lithium-ion batteries consist of anode, cathode, and electrolyte with a charge-discharge cycle. These materials enable the formation of greener and sustainable batteries for electrical energy storage.



## Quick Facts

<b>Product</b>	:	Tin Oxide Nanopowder
<b>Stock No</b>	:	NS6130-03-393
<b>CAS</b>	:	18282-10-5
<b>Form</b>	:	Powder
<b>Purity</b>	:	99.9%
<b>Color</b>	:	White
<b>Doping</b>	:	Fluorine Doped
<b>APS</b>	:	80-100nm

## Technical Specification

<b>Molecular Formula</b>	:	SnO <sub>2</sub>
<b>Molecular Weight</b>	:	150.71 g/mol
<b>Density</b>	:	6.95 g/cm <sup>3</sup>
<b>Melting Point</b>	:	1630°C
<b>Boiling Point</b>	:	1800-1900°C

## Applications

- ✓ Anti-static coatings
- ✓ Energy-conserving coatings
- ✓ Liquid crystal displays
- ✓ Electrodes and antireflection coatings in solar cells
- ✓ Transparent heating elements

**APS**  
80-100nm

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**NS6130-03-393**

ISO 9001:2015  
CERTIFIED COMPANY



20ZICE4589C



19ZAZGO1274G



20ZICE4588M

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