

## NS6130-02-227

### Quick Facts

Product	:	Indium Tin Oxide Nanoparticles
Stock No	:	NS6130-02-227
CAS	:	50926-11-9
Molecular Formula	:	$\text{In}_2\text{O}_3:\text{SnO}_2$
Form	:	Powder

# INDIUM TIN OXIDE Nanoparticles

**Purity**  
99.9%

### Technical Specification

Molecular Weight	Density	Melting Point	APS
428.34g/mol	7.14g/cm <sup>3</sup>	1526-1926 °C	<70nm

Indium tin oxide is a key material in many electronic devices, as it has the unique properties of being both electrically conductive and optically transparent. ITO nanopowders have naturally become integrated and researched for each of these technologies. In the optoelectronic industry, it is mainly used to coat semiconductor sensor wirings and manufacture diverse electro-optical components and devices such as liquid-crystal screens, organic light-emitting diodes (OLEDs), and touch screens. Indium tin oxide layers protect image sensors of high-quality digital cameras. Due to its transparency and electrical conductivity, ITO is used for coating non-conductive materials such as plastics to prevent electrostatic charging.



### Application

- ✓ EMI and static protection
- ✓ Photovoltaic solar cells
- ✓ IR reflection
- ✓ Touch screens
- ✓ Battery inhibitors

$\text{In}_2\text{O}_3:\text{SnO}_2$   
APS <70nm



Follow us:



| [www.nanoshel.com](http://www.nanoshel.com) | [sales@nanoshel.com](mailto:sales@nanoshel.com)



20ZICE4589C



19ZAZGO1274G



20ZICE4588M

ISO 9001:2015  
CERTIFIED COMPANY

**INTELLIGENT MATERIALS PVT LTD**  
Derabassi  
Punjab (140507)  
INDIA

+91 9779 550077, 9779238252

**NANOSHEL UK LIMITED**  
Chapel House,  
Chapel St Cheshire,  
CW12 4AB United Kingdom

+44 (0) 74 105 488, +44 203 137 5187

**NANOSHEL LLC**  
3422 Old Capitol Suit  
1305 Wilmington DE - 19808  
United States

+1 646 470 4911