NANOSHEL
Creating Miracles in Black

NS6130-02-226

INDIUM TIN OXIDE
Nanoparticles

Quick Facts

Product	:	Indium Tin Oxide Nanoparticles
Stock No	:	NS6130-02-226
CAS	:	50926-11-9
Molecular Formula	:	In_2O_3:SnO_2
Form	:	Powder

Purity
99.9%

Technical Specification

Molecular Weight	Density	Melting Point	APS
428.34g/mol	7.14g/cm3	1526-1926 °C	<70nm

Indium tin oxide is a key material in many electronic devices, as it has the unique properties or 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

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APS <70nm

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ISO 9001:2015
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