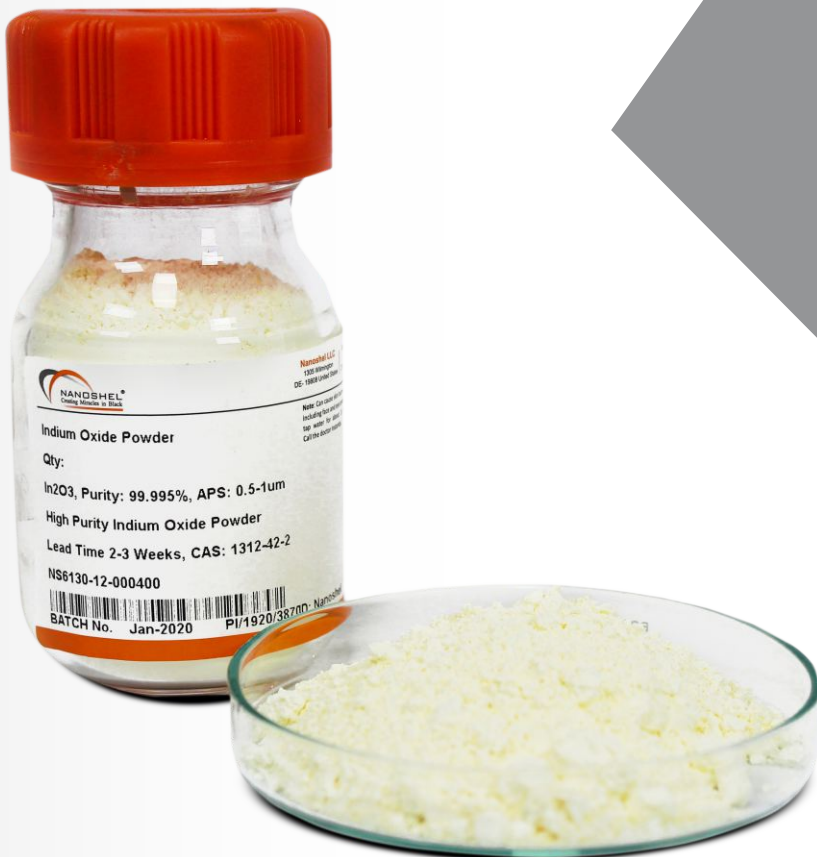


Indium III

Oxide Powder



NS6130-03-000400

APS
0.5-1 μ m



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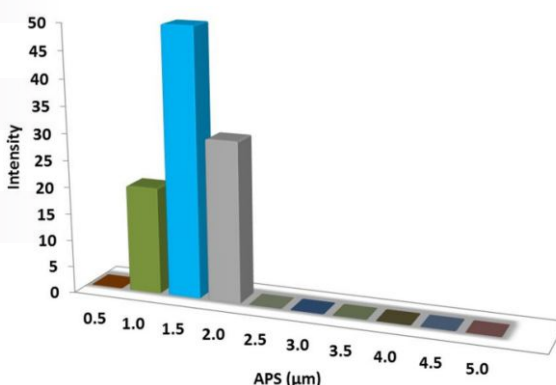
Indium III Oxide Powder

Indium oxide is used in batteries, transparent thin film infra-red reflectors. It is also commonly doped with tin oxide (SnO_2) to make indium tin oxide (ITO), which is used in transparent thin conductive thin films, which are used in various different types of displays, energy efficient windows and photovoltaic.

Indium oxide (In_2O_3) is one of, the important TCOs materials, such as TiO_2 , ZnO , and SnO_2 . Indium oxide is an n-type semiconductor with a directwide energy gap (3.5-3.7eV). This indicates the highest optical transparency and electrical conductivity which are the primary reasons to use the indium oxide for opto-electronic devices. Indium oxide has a cubic structure with a melting point temperature of 1910°C.

Quick Facts

Product	:	Indium III Oxide Powder
Stock No	:	NS6130-03-000400
CAS	:	1312-43-2
Purity	:	99.95%
Color	:	Yellowish – Green
Form	:	Powder



Technical Specification

Formula	APS	Molecular Weight
In_2O_3	0.5-1μm	277.64 gm/mol

Chemical Composition

Product	Weight Percent (nominal)
Indium III Oxide Powder	In_2O_3 99.95%

Applications

- Displays
- Energy efficient windows
- Photovoltaic cell
- Batteries

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20ZICE4589C



19ZAZGO1274G



20ZICE4588M