

INDIUM

Arsenide Powder

Indium arsenide, InAs, or indium monoarsenide, is a semiconductor composed of indium and arsenic. It has the appearance of grey cubic crystals with a melting point of 942 °C. Indium arsenide is popular for its narrow energy and high electron mobility. Indium arsenide is also used for making of diode lasers. Indium arsenide is similar to gallium arsenide and is a direct bandgap material. Indium arsenide is sometimes used together with indium phosphide. Alloyed with gallium arsenide it forms indium gallium arsenide - a material with band gap dependent on In/Ga ratio, a method principally similar to alloying indium nitride with gallium nitride to yield indium gallium nitride.

APS
40-50µm

PURITY
99.99%



Rare Earth
METALS

Packing Sizes:

25Gms, 50Gms, 100Gms, 500Gms & Bulk Orders



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INTELLIGENT MATERIALS PVT LTD

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InAs

CAS
106097-59-0

NS6130-12-000352

Quick Facts

Product	: Indium Arsenide Powder
Stock No	: NS6130-12-000352
CAS	: 106097-59-0
Color	: Grey
Form	: Powder

TECHNICAL Specification

APS	: 40-50µm
Purity	: 99.99%
Molecular Weight	: 189.740g/mol
Density	: 5.67 g/cm ³
Melting Point	: 942°C

APPLICATIONS

- ✓ Diode lasers are also made using indium arsenide
- ✓ It is used as a terahertz radiation source
- ✓ Indium arsenide and gallium arsenide are similar and it is a direct bandgap material.
- ✓ It is possible to form quantum dots in a monolayer of indium arsenide on gallium arsenide or indium phosphide



20ZICE4589C



19ZAZG01274G



20ZICE4588M

ISO 9001:2015
CERTIFIED COMPANY

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