

ZINC

Selenide Powder

Zinc selenide (ZnSe) is a light-yellow, solid compound comprising zinc (Zn) and selenium (Se). It is an intrinsic semiconductor with a band gap of about 2.70 eV at 25 °C (77 °F). ZnSe rarely occurs in nature, and is found in the mineral that was named after Hans Stille called "stilleite." Zinc selenide (ZnSe) is used as an infrared optical material with wide transmission wavelength range. It is also used as an entrance optic in the new range of "in-ear" clinical thermometers. ZnSe is used as a semiconductor material for thin film devices, and n-type windows layer for thin film heterojunction solar cells. ZnSe activated with tellurium is a scintillator suitable for matching with photodiodes. It is used in x-ray and gamma ray detectors. Zinc selenide films are useful in photovoltaic cells and solar conversion cells. The material can be doped with n-type and p-type doping. It is used to form light-emitting diodes and diode lasers. ZnSe doped with chromium finds use as an IR laser gain medium.



PURITY
>99%

ZnSe

CAS
1315-09-9

NS6130-12-000605

Quick Facts

Product	: Zinc Selenide Powder
Stock No	: NS6130-12-000605
CAS	: 1315-09-9
Color	: Yellow
Form	: Powder

TECHNICAL Specification

APS	: 40-70µm
Purity	: >99%
Molecular Weight	: 144.35 g/mol
Density	: 5.27 g/cm ³
Melting Point	: 1525°C

APPLICATIONS

- ✓ Used for infrared optical windows, lenses, mirrors and prisms particularly for infrared applications
- ✓ Useful in photovoltaic cells and solar conversion cells.
- ✓ Use as an IR laser gain medium.
- ✓ Used as a semiconductor material for thin film devices

Packing Sizes:

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



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ISO 9001:2015
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