

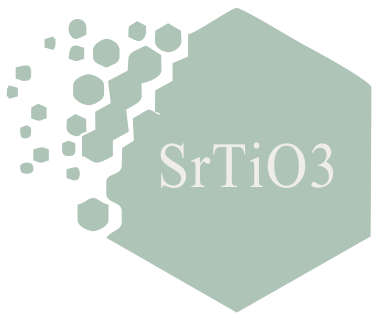
LEAD SELENIDE NANOPARTICLES

Lead selenide is a semiconductor material that forms cubic crystals similar to the structure of NaCl. It performs efficiently at low temperatures, without the need for cooling. It naturally occurs in the mineral clausthalite and can be formed by a direct reaction between lead and selenium. Its peak sensitivity depends on temperature and varies between 3.7 and 4.7 μ m. Lead selenide nanocrystals embedded into various materials can be used as quantum dots, for example in nanocrystal solar cells.



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APPLICATIONS

- ✓ Infrared detectors for thermal imaging
- ✓ Gas analysis
- ✓ Hot spot detection
- ✓ Industrial process and quality control
- ✓ Defense applications



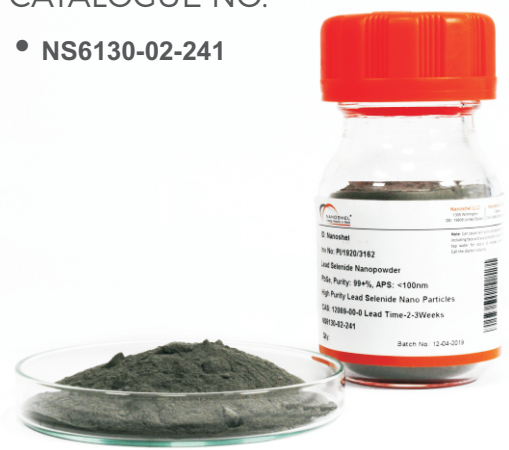
SPECS

- ✓ Purity: 99.9%
- ✓ Molecular Formula: PbSe
- ✓ Molecular Weight: 286.16 g/mol
- ✓ Color: Black
- ✓ Density: 8.1 g/cm³
- ✓ Melting Point: 1078 °C

All types of particles size are available in micro and nano range.

CATALOGUE NO.

• NS6130-02-241



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