

Product Data Sheet

Indium Sulfide



Introduction

Indium Sulfide is an orange-red powder with a characteristic sulfide odor. It is used as a replacement for toxic CdS used in the buffer layer of copper-indium-diselenide thin-film solar cells.

Properties

Chemical Formula	In_2S_3
Molecular Weight	325.82
General Description	Orange-red powder with sulfide odor
Uses	Replacement of toxic CdS buffer layer in the manufacture of CIGS thin film solar cells
Purity Grades Available	4N (99.99%), 5N (99.999%)
Solubility	Insoluble in cold water; soluble in mineral acids
Specific Gravity	4.90 g/cc
Melting Point	1050°C
Boiling Point	Sublimes at 850°C in high vacuum
Theoretical Indium Percentage	70.48
Minimum Indium Percentage	65
Nominal Indium Percentage	68 +/- 3.0



Standard Packaging

Quantity*	Container
3.5 kg	1 gallon Nalgene
2.0 kg	1/2 gallon Nalgene
1.0 kg	1 liter Nalgene
500 g	1/2 liter Nalgene
100–200 g	Plastic Jars

*All package sizes contain suitable desiccant. Packaging in other sizes or in glass may be available upon request.

Storage and Shelf Life

Indium Sulfide should be stored at room temperature and the container kept tightly sealed. **Indium Sulfide** has a shelf life of 6 months.

Material Safety Data Sheets

The MSDS for this product can be found online at <http://www.indium.com/techlibrary/msds.php>

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