

Product Data Sheet

Indium Hydroxide $\text{In}(\text{OH})_3$

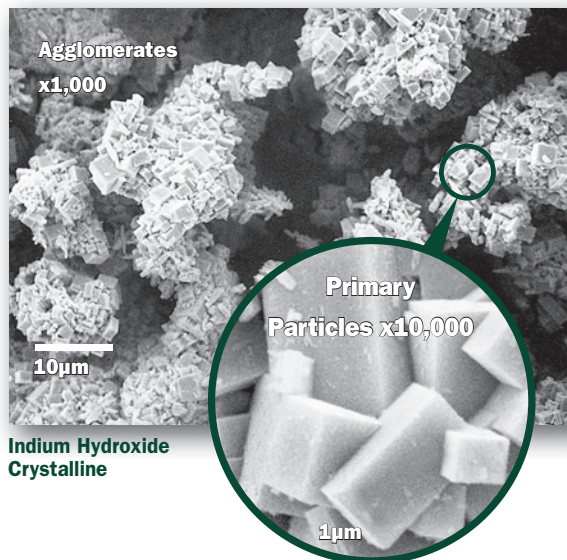
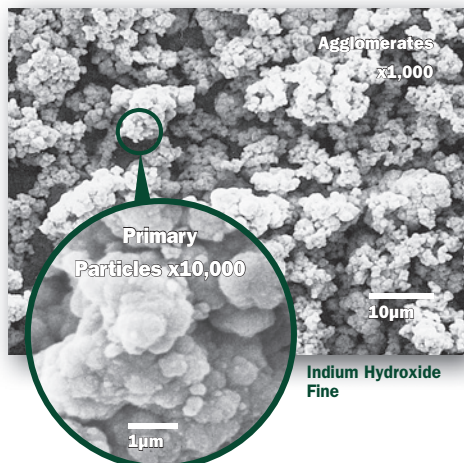
Introduction

Indium Hydroxide is a white powder. It is available in two standard forms:

- **Crystalline:** Primary particles range from 1 to 5µm in size. They are cubic in shape and form agglomerates up to approximately 35 µm.
 - **Fine Powder:** Primary particles range from 0.1 to 1.0µm in size. They range in shape from spherical to elliptical to cylindrical. Agglomerates can be up to approximately 5µm.
- Other forms available upon request.

Powder Description

The following SEM photos illustrate the particle morphology of two forms of indium hydroxide, Fine and Crystalline.



Indium Hydroxide Crystalline

Properties: Crystalline

Chemical Formula	$\text{In}(\text{OH})_3$
Molecular Weight	165.84
General Description	White powder
Uses	Chemical synthesis
Purity Grades Available	4N (99.99%), 5N (99.999%)
Solubility	Soluble in mineral acids; insoluble in water.
Theoretical Indium Percentage	69.24
Minimum Indium Percentage	67.9
Nominal Indium Percentage	68.8 +/-0.9
d90 Particle Size Distribution	15.0 - 46.0
d50 Particle Size Distribution	8.9 - 28.0
d10 Particle Size Distribution	1.6 - 14.0
BET m ² /g (typical)	5.7

Properties: Fine

Chemical Formula	$\text{In}(\text{OH})_3$
Molecular Weight	165.84
General Description	White powder
Uses	Chemical synthesis
Purity Grades Available	4N (99.99%), 5N (99.999%)
Solubility	Soluble in mineral acids; insoluble in water.
Theoretical Indium Percentage	69.24
Minimum Indium Percentage	63.9
Nominal Indium Percentage	65.6 +/-1.7
d90 Particle Size Distribution	1.1 - 7.2
d50 Particle Size Distribution	1.4 - 2.5
d10 Particle Size Distribution	0.8 - 1.1
BET m ² /g (typical)	50 - 65

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Form No. 97559 R4

Indium Hydroxide $\text{In}(\text{OH})_3$

Standard Packaging

Quantity	Container**
100-200 g	Small plastic Jars
500 g	½ liter
1 kg	1 liter
2.5 kg	1.9 liter (½ gallon)
≥5 kg	3.8 liter (1 gallon)

**Packaging in other sizes or glass may be available upon request.

Storage and Shelf Life

Indium Hydroxide should be stored at room temperature and the container kept tightly sealed. **Indium Hydroxide** 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>

This product data sheet is provided for general information only. It is not intended, and shall not be construed, to warrant or guarantee the performance of the products described which are sold subject exclusively to written warranties and limitations thereon included in product packaging and invoices.

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