

PRODUCT DATA SHEET

Indium Hydroxide

In(OH)₃

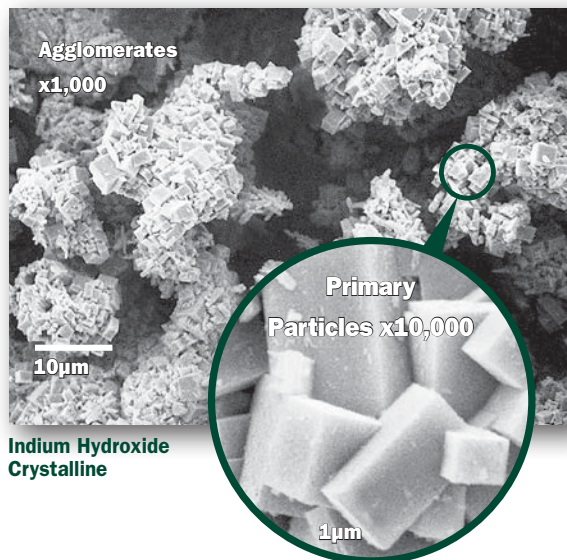
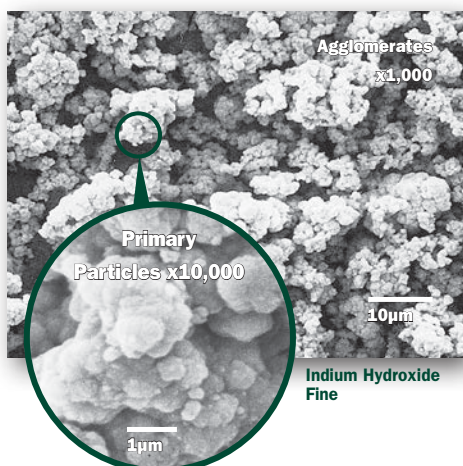
Introduction

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

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

OVER→

Form No. 97559 R5

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ISO 9001
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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 12 months.

Safety Data Sheets

The SDS for this product can be found online at <http://www.indium.com/sds>

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