

PRODUCT DATA SHEET

Indium Hydroxide



Introduction

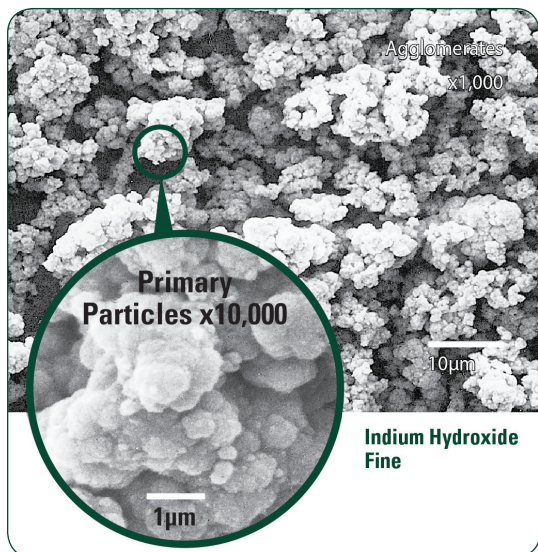
Indium hydroxide is a white powder. It is available in two standard forms:

- **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.
- **Crystalline:** Primary particles range from 1 to 5µm in size. They are cubic in shape and form agglomerates up to approximately 35µm.

Other forms available upon request.

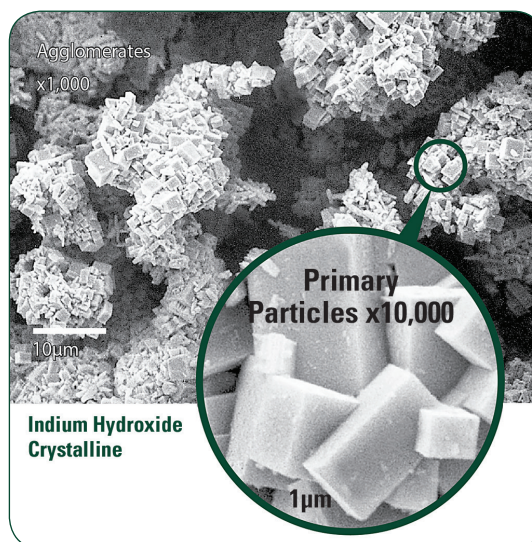
Powder Description

The following SEM photos illustrate the particle morphology of two forms of **indium hydroxide**: fine and crystalline.



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



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

From One Engineer To Another®



Form No. 97559 R5

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Standard Packaging

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