

## PRODUCT DATA SHEET

# Indium Hydroxide



### Introduction

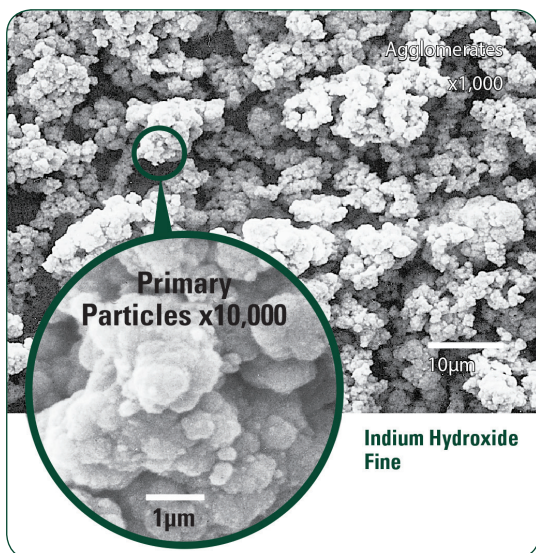
Indium hydroxide is a white powder. It is available in two standard forms:

- **Fine Powder:** Primary particles range from 0.1 to 1.0 $\mu\text{m}$  in size. They range in shape from spherical to elliptical to cylindrical. Agglomerates can be up to approximately 5 $\mu\text{m}$ .
- **Crystalline:** Primary particles range from 1 to 5 $\mu\text{m}$  in size. They are cubic in shape and form agglomerates up to approximately 35 $\mu\text{m}$ .

Other forms available upon request.

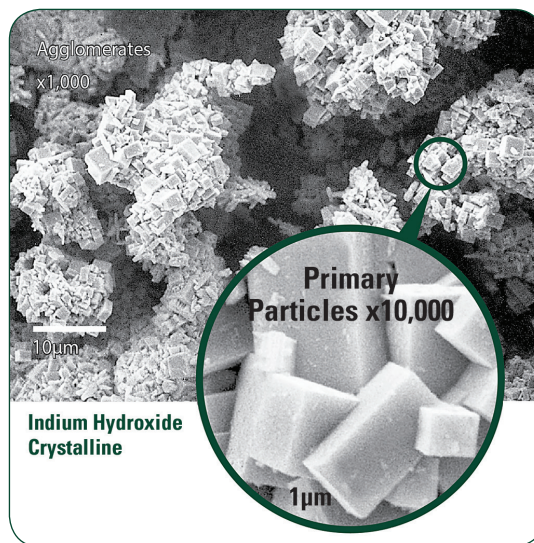
### Powder Description

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 $\pm$ 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 <sup>2</sup> /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 $\pm$ 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 <sup>2</sup> /g (typical)	5.7

From One Engineer To Another<sup>®</sup>



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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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