PRODUCT DATA SHEET

Indium Acetate

Introduction

Indium acetate is a white powder that is freely soluble in mineral acids. It consists of needle-shaped crystals, which decompose to indium oxide upon heating. Indium acetate is available in the grades listed below.

Properties

<table>
<thead>
<tr>
<th>Chemical Formula</th>
<th>In(CH₃COO)₃</th>
</tr>
</thead>
<tbody>
<tr>
<td>Molecular Weight</td>
<td>291.94</td>
</tr>
</tbody>
</table>

General Description
- White powder with a characteristic acetic odor
- Needle-shaped crystalline morphology

Uses
- InP quantum dots (precursor)
- Chemical synthesis (precursor)
- Alkaline battery chemistries (reduce outgassing and improve efficiency)

Purity
4N5 (99.995%)

Solubility
- Freely soluble in mineral acids
- Also soluble in carboxylic acids at elevated temperatures

Tap Density
<1g/cc

Indium Percentage
Available in 3 grades, with In % ranges as shown in table below

<table>
<thead>
<tr>
<th>Indium Acetate Grade</th>
<th>In %</th>
</tr>
</thead>
<tbody>
<tr>
<td>Standard</td>
<td>41.5–44.5%</td>
</tr>
<tr>
<td>Premium</td>
<td>44.5–45.5%</td>
</tr>
<tr>
<td>Premium Plus</td>
<td>45.0–46.0%</td>
</tr>
</tbody>
</table>

Note: Because the indium acetate produced is basic acetate, it will contain more indium as metal than theoretical (39.3%).

Standard Packaging for Powder

<table>
<thead>
<tr>
<th>Quantity*</th>
<th>Container</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.25kg</td>
<td>3.8 liter plastic (HDPE)</td>
</tr>
<tr>
<td>0.33kg</td>
<td>1 liter plastic (HDPE)</td>
</tr>
</tbody>
</table>

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

Storage and Shelf Life

Indium acetate should be stored at room temperature and the container kept tightly sealed. Indium acetate 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

From One Engineer To Another

Contact our engineers today: askus@indium.com
Learn more: www.indium.com

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