PRODUCT DATA SHEET

Gallium (III) Oxide
(Ga2O3)

Synonyms | Gallium Oxide, Gallium Sesquioxide
CAS Number | 12024-21-4
EC Number | 234-691-7
RTECS | LW9650000
Appearance/Form | White powder
Crystal Structure | Mostly β-phase, confirmed by XRD
Formula Weight | 187.44g/mol
Theoretical Gallium Content | 74.39%
Density | 6.44g/cm3; approx. 0.7g/cm3 apparent
Melting Point | 1,900°C
Vapor Pressure | N/A
Solubility | Soluble in strong alkalis and hot acids, insoluble in water

Purity grade is 4N.
Please contact askus@indium.com for sample COAs or discuss impurity specifications.

Packaging
• PE Bottle: 100g, 500g, 1kg, 2kg
• Plastic Pail: 5kg, 10kg, 20kg
• Plastic Drum: 25kg, 50kg and up

Applications
• Phosphors
• Cathodes for solid oxide fuel cells
• Piezo-electric crystals
• GGG crystals and IGZO targets for latest technology displays

Storage and Shelf Life
Gallium (III) Oxide should be stored at room temperature and the container kept tightly sealed. Shelf life is 12 months.

Typical Particle Size and Surface Area Analysis

<table>
<thead>
<tr>
<th>Type C</th>
<th>d50 (micron)</th>
<th>d90 (micron)</th>
<th>BET (m²/g)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>1.8–2.7</td>
<td>2.9–4.4</td>
<td>8–13</td>
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All of Indium Corporation's solder paste and preform manufacturing facilities are IATF 16949:2016 certified. Indium Corporation is an ISO 9001:2015 registered company.

Contact our engineers: askus@indium.com
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