

PRODUCT DATA SHEET

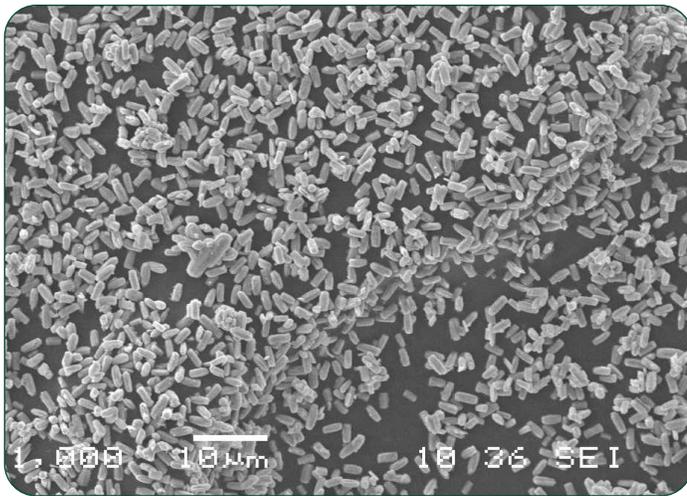
Gallium (III) Oxide

(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/cm ³ ; approx. 0.7g/cm ³ 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.



Typical Particle Size and Surface Area Analysis

	d50 (micron)	d90 (micron)	BET (m ² /g)
Type C	1.8–2.7	2.9–4.4	8–13

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.

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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.

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ASIA +65 6268 8678 • CHINA +86 (0) 512 628 34900 • EUROPE +44 (0) 1908 580400 • USA +1 315 853 4900



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