



## Chem-Metals & Rare Earth

### ■ Gallium Oxide

**Gallium Oxide** is insoluble in water, soluble in alkali and hot acid. Gallium oxide have broad application prospect in optoelectronic devices, it is used for insulating layer of gallium semiconductor, ultraviolet filter, LED fluorescent powder, target material, etc.



Formula	Ga <sub>2</sub> O <sub>3</sub>
Appearance	white crystal
Molecular weight	187.44
Melting Point	1740 °C
CAS No.	12024-21-4

No.	Item	Standard Specification			
1	Ga <sub>2</sub> O <sub>3</sub> ≥	99.99%	99.999%	99.9999%	
2	Impurity PPM Max each	Pb	8	1.50	0.10
		Na	10	1.00	-
		Mg	3	0.10	-
		Ni	3	0.10	-
		Mn	3	0.10	0.05
		Cr	5	0.50	-
		Ca	5	0.50	0.05
		Al/Fe	10	1.00	0.10
		Co/Cd	5	0.50	0.05
	Cu/Sn	5	0.50	0.10	
3	Crystallographic Form	α or β type			
4	Size	D50≤4um, -80mesh, 50-100mesh			
5	Packing	1kg in plastic bottle			

### ■ Indium Oxide

**Indium oxide** or **Indium Trioxide**, In<sub>2</sub>O<sub>3</sub>, with purity of 99.99%, 99.995%, 99.999% and 99.9999%, is mainly for the manufacturing of glass, indium salts, and materials for electronic elements etc.



Formula	In <sub>2</sub> O <sub>3</sub>
Appearance	Yellowish powder
Molecular weight	277.63
Density	7.18 g/cm <sup>3</sup>
Melting Point	2000 °C
CAS No.	1312-43-2

No.	Item	Standard Specification				
1	In <sub>2</sub> O <sub>3</sub> ≥	99.99%	99.995%	99.999%	99.9999%	
		PCT Max	PPM Max	PPM Max	PPM Max	
2	Impurity	Cu	0.002	1	0.5	Upon Request
		Al	0.002	1	-	
		Pb	0.0004	-	0.5	
		Cd	0.0008	1	0.5	
		Sn	0.0007	1	1	
		Ti	0.0003	1	1	
		Fe	0.0015	5	0.5	
		Ni	-	1	0.5	
		Ca	-	5	1	
		Si	-	2	-	
		As/Zn	-	1	-	
3	Size	100ppm	50ppm	10ppm	1ppm	
		20μm 95%min	50-80nm	20μm 95%min	-100mesh	
4	Packing	1kg in polyethylene bottle with sealed plastic bag outside				