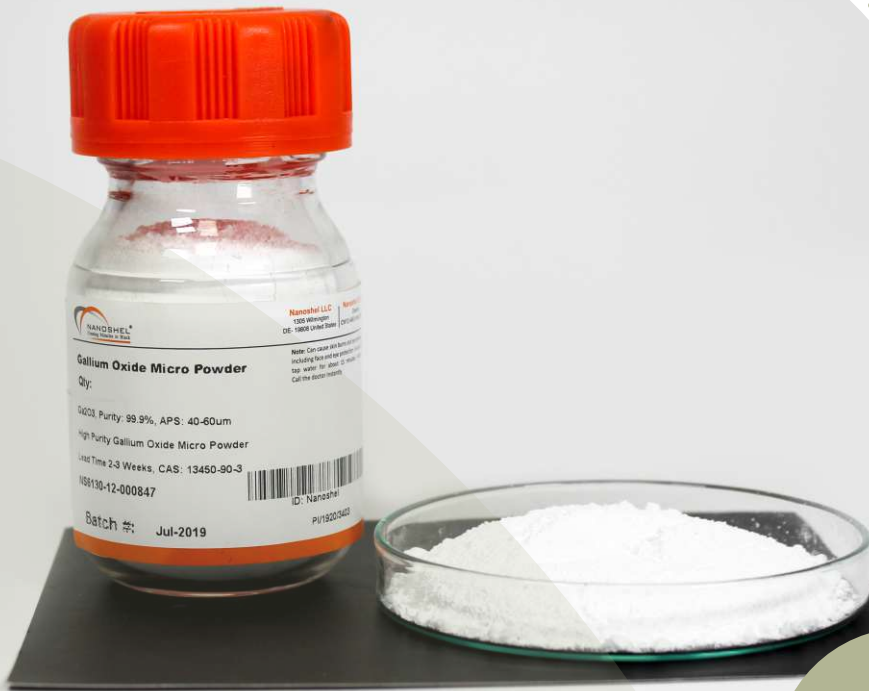


GALLIUM OXIDE







Purity
99.9%



NS6130-12-000847



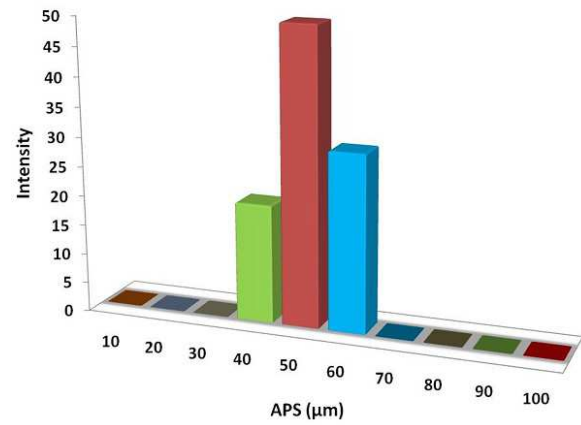
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GALLIUM OXIDE

The monoclinic gallium oxide (β -Ga₂O₃) is chemically and thermally stable compound. It represents conductive and photoluminescence properties. Crystalline gallium oxide nanowires exhibit a blue light emission. Ga₂O₃ resides in a family of conducting transparent semiconducting oxides (TSO). It is also used as ceramic material due to its high melting point.

Gallium oxide (Ga₂O₃), is displaying basic and acidic sites on its surface so that this compound is utilized in different applications. It has also been utilized as a catalyst for benzene decomposition, reduction of nitrogen oxides (NOX) using alkanes, catalytic isomerization, and dehydrogenation of fatty acid esters.



ADDITIONAL POWDER CHARACTERISTICS

Stock No.	Purity	Vapor Pressure
NS6130-12-000847	99.9%	1 mmHg (48 °C)

TECHNICAL SPECIFICATION

Molecular Formula	Molecular Weight	Density	Melting Point
Ga ₂ O ₃	187.44 g/mol	6.44 g/cm ³	1900 °C

CHEMICAL COMPOSITION

Product	Weight Percent (nominal)	
	Ga ₂ O ₃	Other Metal
Gallium Oxide	99.9%	1000ppm

APPLICATIONS

- > Used as an insulating barrier in tight junctions.
- > UV photodetector
- > Used as a catalyst
- > Gas sensors

QuickFACTS

Product	:	Gallium Oxide
Stock No	:	NS6130-12-000847
CAS	:	12024-21-4
Color	:	White Crystalline
Form	:	Powder
Symbol	:	Ga ₂ O ₃
Group	:	Gallium 13/Oxygen 16

Electronic Configuration:

Gallium [Ar] 3d¹⁰ 4s² 4p¹, Oxygen [He] 2s² 2p⁴



20ZICE4589C



19ZAZGO1274G



20ZICE4588M

ISO 9001:2015
CERTIFIED COMPANY

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