

# GALLIUM NITRIDE POWDER

Stock No: NS6130-12-000935

GaN



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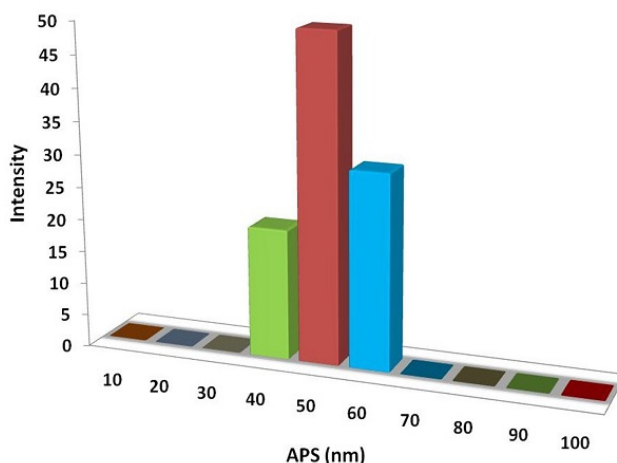
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## Gallium Nitride Powder

Gallium nitride (GaN) has attracted much attention for a long time as a promising material for semiconductor device application in the transistors, visible light-emitting sources and high power diodes. Gallium nitride semiconductors are useful in, among other things, high power electronic and optoelectronics, such as flat panel displays, light emitting diodes, and laser diodes. While most gallium nitride ("GaN") materials are produced as thin films, GaN powders have applications as electroluminescent phosphor. Gallium Nitride (GaN) is a hard, mechanically stable semiconductor compound with high heat capacity and thermal conductivity. Gallium nitride (GaN) is a wide band gap semiconducting material, which can be used in the development of a variety of electronic devices, such as light emitting diodes (LEDs), and field effect transistors (FETs). It can also be used as a transition metal dopant for spintronics-based applications.

### Quick Facts

Product	: Gallium Nitride Powder
Color	: Yellow/gray Powder
Stock No	: NS6130-12-000935
CAS	: 25617-97-4
Purity	: 99.9%
APS	: 40-60 $\mu$ m
Other Metal	: 850ppm



## Technical Specification

Molecular Formula	Molecular Weight	Density	Melting Point
GaN	83.73 g/mol	6.1g/cm <sub>3</sub>	800 °C

## Applications

- Bandgap semiconductor material, Traffic Signals
- Automotive Interior Lighting, LED Full-Color Displays
- Optical Storage, LED-Generated Indoor/outdoor Lighting, Laser diodes
- High-resolution Printings, Full-Color Film Printers
- Projection Television and Biomedical Uses

ISO 9001:2015  
CERTIFIED COMPANY



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