

# GADOLINIUM

## Metal Powder

Gadolinium was first discovered in the late 19th century using the spectroscopy technique and named after the gadolinite mineral in which it is found. Gadolinium is a chemical element with the symbol Gd and atomic number 64. Gadolinium engages in a gradual oxidation reaction with atmospheric moisture and oxygen. Gadolinium powder has applications in electronics to increase the speed and capacity of computer memory. It has applications in medical magnetic resonance imaging (MRI) where it is used as intravenously administered, contrasting agents to enhance images. It also has applications as a dopant in glass. Gadolinium is a rare earth metal that possesses unique properties advantageous to specialized applications such as semiconductor fabrication and nuclear reactor shielding. Gadolinium has excellent magnetic properties.

**APS**  
40-50µm

**PURITY**  
99.9%



### Packing Sizes:

25Gms, 50Gms, 100Gms, 500Gms & Bulk Orders



Follow us:



| www.nanoshel.com | sales@nanoshel.com

**INTELLIGENT MATERIALS PVT LTD**  
Derabassi  
Punjab (140507)  
INDIA

+91 9779 550077, 9779238252

**NANOSHEL UK LIMITED**  
Chapel House,  
Chapel St Cheshire,  
CW12 4AB United Kingdom

+44 (0) 74 105 488, +44 203 137 5187

**NANOSHEL LLC**  
3422 Old Capitol Suit  
1305 Wilmington DE - 19808  
United States

+1 646 470 4911



20ZICE4589C



18ZAZG01274G



20ZICE4588M

ISO 9001:2015  
CERTIFIED COMPANY

**Gd**

**CAS**  
7440-54-2

NS6130-12-000434

## Quick Facts

Product	: Gadolinium Metal Powder
Stock No	: NS6130-12-000434
CAS	: 7440-54-2
Color	: Silvery Grey
Form	: Powder

## TECHNICAL Specification

APS	: 40-50µm
Purity	: 99.9%
Molecular Weight	: 157.25 g/mol
Density	: 7.90 g/cm <sup>3</sup>
Melting Point	: 1312°C

## APPLICATIONS

- ✓ Use with neutron radiography and in shielding of nuclear reactors.
- ✓ Used as intravenous MRI contrast agent to enhance images in medical magnetic resonance imaging.
- ✓ It also has applications as a dopant in glass.