

Gadolinium

High Purity Metal

Characteristics

- ✓ Superconducting properties
- ✓ Mechanical and physical properties
- ✓ Good conductivity
- ✓ Magnetic properties

Quick Facts

Molecular Formula	:	Gd
Molecular Weight	:	150.36 g/mol
Density	:	7.35 g/cm ³
Melting Point	:	1072 °C
Boiling Point	:	1803 °C
Thermal Conductivity	:	0.165 W/(mK)
Electrical Resistivity	:	88.0 nΩm (at 20 °C)
Thermal Expansion	:	12.7 μm/(mK) (at 25 °C)
Young's Modulus	:	49.7 GPa
Specific Heat	:	0.043 Cal/g/K @ 25 °C

Purity : 99.9%

Gadolinium is a chemical element with the symbol Gd and atomic number 64. Complexes of the element gadolinium (Gd) are the most widely used of all MRI contrast agents. Because of its unique electronic structure, Gd is strongly paramagnetic. Gadolinium is a silvery-white metal when oxidation is removed. It is only slightly malleable and is a ductile rare-earth element. Gadolinium reacts with atmospheric oxygen or moisture slowly to form a black coating. Gadolinium below its Curie point of 20 °C (68 °F) is ferromagnetic, with an attraction to a magnetic field higher than that of nickel.

Benefits of Nickel

- ✓ Used in electronics, machinery, and other industry-related devices.
- ✓ Used in the manufacture of magnets, recording heads, and electrical components.
- ✓ Vacuum Annealing
- ✓ Milling & Machining
- ✓ EDM, and Water Jet Cutting
- ✓ Superconducting motors or generators



High Purity

Gadolinium

Available in:

Pieces | Rods | Shots | Chips |

Pellets | Wires | Ingots | Bars | Granules



202ICE4589C



19ZAZG01274G



202ICE4588M

ISO 9001:2015
CERTIFIED COMPANY

64

Gd
157.25

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

