

Gadolinium Oxide Powder

NS6130-05-570



APS
40-50µm



Follow us:



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

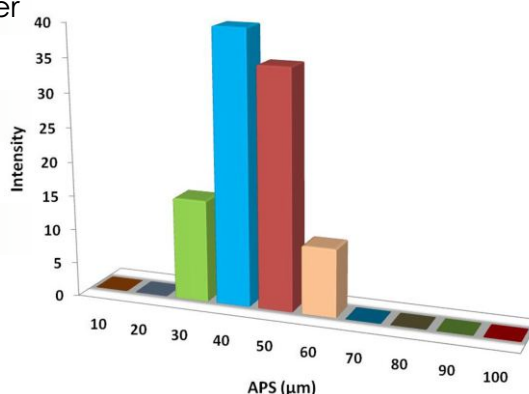
Gadolinium Oxide Powder

Gadolinium oxide (Gd_2O_3), also known as Gadolinia and it is a white powder that is insoluble in water. However, it is soluble in acids and it has a tendency to absorb moisture and carbon dioxide from the air. Gadolinium gallium garnet is utilized in the fabrication of various optical components and as a substrate material for magneto-optical films. Gadolinium is employed in nuclear marine propulsion systems as a burnable nuclear poison and as a secondary, emergency shutdown measure in some nuclear. It is applied to detect power plant radiation leaks.

Gadolinium Oxide is utilized for making optical glass and Gadolinium Yttrium Garnets which have microwave applications. High purity of Gadolinium Oxide is utilized for making phosphors for color TV tube and cerium Oxide (in the form of Gadolinium doped ceria) makes an electrolyte with both high ionic conductivity and low operating temperatures that are optimal for cost-effective production of fuel cells.

Quick Facts

Product	:	Gadolinium Oxide Powder
Stock No	:	NS6130-05-570
CAS	:	12064-62-9
Purity	:	99%
Color	:	White
Form	:	Powder



Technical Specification

Formula	APS	Melting Point
Gd_2O_3	40-50μm	2420 °C

Chemical Composition

Product	Weight Percent (nominal)
Gadolinium Oxide Powder	Gd_2O_3 99%

Applications

- Phosphors for color television tubes
- Optical glasses
- Absorption materials in atomic reactions
- Making gadolinium yttrium garnets which have microwave applications

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 1782 454 144, +44 74 105 48802

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

+1 646 470 4911

ISO 9001:2015
CERTIFIED COMPANY



20ZICE4589C



19ZAZGO1274G



20ZICE4588M

