

# GADOLINIUM CHLORIDE POWDER

Stock No: NS6130-05-572



$GdCl_3$



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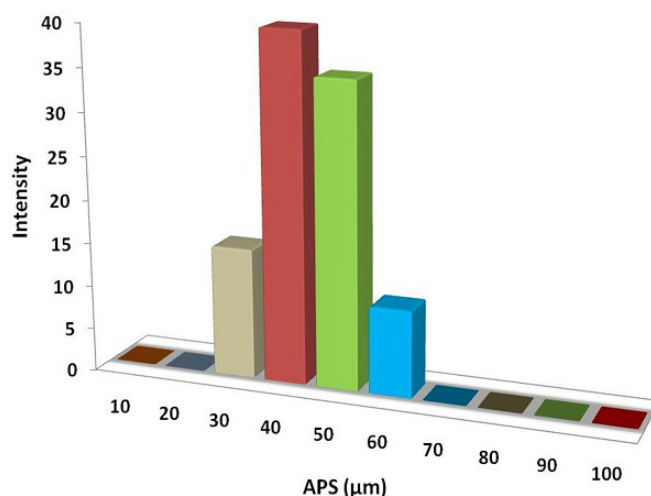
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## Gadolinium Chloride Powder

The intense research activities devoted to the nanoparticles during the past decade have opened the door to promising biological and medical applications. Gadolinium (III) chloride hydrate is a rare earth compound of Gadolinium. It is water-soluble and hygroscopic. Gadolinium is a rare earth element with a high magnetic moment. Due to its magnetic moment, Gadolinium is able to enhance signal intensity by reducing relaxation times. It is also used for semiconductor fabrication and nuclear reactor shielding. When combined with EDTA ligands, Gadolinium can be used as an injectable contrast agent for MRIs. Gadolinium Chloride is used for making optical glass and dopant for Gadolinium Yttrium Garnets which have microwave applications.

### Quick Facts

Product	:	Gadolinium Chloride Powder
Color	:	White
Stock No	:	NS6130-05-572
CAS	:	10138-52-0
Purity	:	99%
APS	:	40-50 $\mu$ m



## Technical Specification

Molecular Formula	Molecular Weight	Density	Melting Point
GdC <sub>13</sub>	263.61 g/mol	4.52 g/cm <sub>3</sub>	609 °C

## Applications

- Used in electronic industry and scientific research.
- Used for extracting gadolinium and gadolinium compounds.
- Used as an active laser medium.
- Gadolinium chloride is used as a doping agent for gadolinium yttrium garnets

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