

Germanium

Oxide Powder







NS6130-12-000316

APS
40-50 μ m



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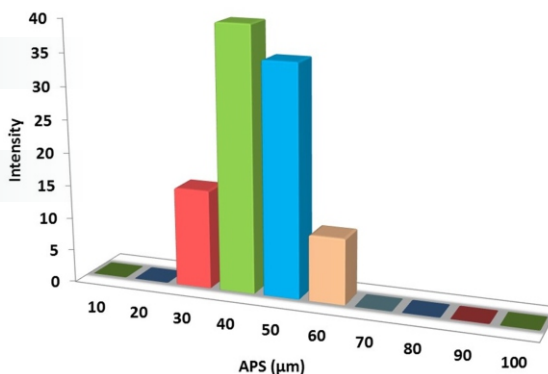
Germanium Oxide Powder

Germanium dioxide is used in alga culture as an inhibitor of unwanted diatom growth in algal cultures, since contamination with the comparatively fast-growing diatoms often inhibits the growth of or outcompetes the original algae strains. GeO₂ is readily taken up by diatoms and leads to silicon being substituted by germanium in biochemical processes within the diatoms, causing a significant reduction of the diatoms' growth rate or even their complete elimination, with little effect on non-diatom algal species.

The refractive index and optical dispersion properties of germanium dioxide makes it useful as an optical material for wide-angle lenses, in optical microscope objective lenses, and for the core of fiber-optic lines. See Optical fiber for specifics on the manufacturing process. Both Germanium and its glass oxide, GeO₂ are transparent to the infrared spectrum. The glass can be manufactured into IR windows and lenses, used for night-vision technology in the military, luxury vehicles, and Thermo graphic cameras. GeO₂ is preferred over other IR transparent glasses because it is mechanically strong and therefore preferred for rugged military usage

Quick Facts

Product	:	Germanium Oxide Powder
Stock No	:	NS6130-12-000316
CAS	:	1310-53-8
Purity	:	99%
Color	:	White
Form	:	Powder



Technical Specification

Formula	APS	Molecular Weight	Melting Point
GeO ₂	40-50µm	104.6388 g/mol	1,115 °C

Chemical Composition

Product	Weight Percent (nominal)	
	GeO ₂	Other Metal
Germanium Oxide Powder	99%	0.1%

Applications

- Ceramics
- Lithium ion batteries
- Enamels

INTELLIGENT MATERIALS PVT LTD
Derabassi
Punjab (140507)
INDIA

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

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

+91 9779 550077, 9779238252

+44 1782 454 144, +44 74 105 48802

+1 646 470 4911

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