

NS6130-12-001657

GADOLINIUM

Oxysulfide Powder

Quick Facts

Product	:	Gadolinium Oxysulfide Powder
Stock No	:	NS6130-12-001657
CAS	:	12339-07-0
Molecular Formula	:	Gd ₂ O ₂ S
Form	:	Powder

Purity
99.9%

Technical Specification

Molecular Weight	Density	Melting Point	APS
378.56 g/mol	7.40 g/cm ³	2330 °C	40-60µm

Gadolinium oxysulfide (Gd₂O₂S), also called gadolinium sulfoxylate, GOS or Gadox, is an inorganic compound, a mixed oxide-sulfide of gadolinium. Gadolinium oxysulfide is white, odorless powder. Gadolinium oxysulfide (Gd₂O₂S) were chosen due to its high chemical and thermal stability as well as wide band gap energy which is suitable for ionic doped activation and efficiently reacted to become as a luminescent emitting material. The main use of gadolinium oxysulfide is in ceramic scintillators. Scintillators are used in radiation detectors for medical diagnostics.

Application

- ✓ Major medical imaging equipment and different clinical applications
- ✓ Small fields are sufficient
- ✓ specially in charge-coupled device (CCD) camera for electron microscopy
- ✓ ceramic scintillators
- ✓ cathode ray tube (CRTs) and multimodal imaging agent

Gd₂O₂S
APS 40-60µm



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