

## Certificate of Analysis

Date of Testing: 2024-08-23 13:42:58  
Date of Next Testing: 2028-08-22 13:42:58  
Product Name: **Gadolinium oxide**  
CAS Number: 12064-62-9  
Specifications & Purity: 99.8% metals basis, < 100 nm (BET)  
Lot #: H2412463  
SKU #: **G105877**  
Version: **0**  
Analysis #: **392372**  
Storage Temperature: Argon charged

Parameter	Limit Values	Result
Total Metallic Impurity	0-3000 (ppm)	197.00 ppm
particle size(BET)	0-100 (nm)	90.26 nm
Purity(Based On Trace Rare Earth Analysis)	99.8-100 (%)	99.98 %
Gadolinium (Gd)	84.2-86.7 (%)	86.02 %
Appearance (G105877)	White powder	White powder
ICP:Confirms Gadolinium Component	Confirmed	Confirmed
X-Ray Diffraction	Conforms to Structure	Conforms to Structure



John Su  
QA & QC Manager