

Certificate of Analysis

Date of Testing: 2023-03-09 14:29:52

Date of Next Testing: 2027-03-08 14:29:52

Product Name: **Samarium oxide**

CAS Number: 12060-58-1

Specifications & Purity: nanopowder, 40nm, 99.5% metals basis

Lot #: F1523079

SKU #: **S108776**

Analysis: 196390

Parameter	Limit Values	Result
Particle size	30-50 (nm)	35.00 nm
Purity(Based On Rare Earth Analysis of ICP)	99.5-100 (%)	99.60 %
Trace Rare Earth Analysis	0-5000 (ppm)	4000.00 ppm
Appearance (S108776)	White or off-white powder	White or off-white powder
ICP: Confirms Samarium Component	Confirmed	Confirmed
X-Ray Diffraction	Conforms to Structure	Conforms to Structure



John Su
QA & QC Manager