

## Certificate of Analysis

Date of Testing: 2022-12-19 14:09:56  
Date of Next Testing: 2026-12-18 14:09:56  
Product Name: **Aluminum oxide**  
CAS Number: 1344-28-1  
Specifications & Purity: nanopowder,99.9% metals basis, $\gamma$ -phase, < 50nm  
Lot #: L2214727  
SKU #: **A396574**  
**Analysis:** **170432**  
Storage Temperature: Desiccated

Parameter	Limit Values	Result
Purity(Based On Trace Metals Analysis)	99.9-100 (%)	99.97 %
Total metal impurity	0-0.1 (%)	0.03 %
Particle size	< 50 (nm)	18.70 nm
Appearance (A396574)	white powder	White powder
X-Ray Diffraction( $\gamma$ -phase)	Conforms to Structure	Conforms to Structure



John Su  
QA & QC Manager