

## Certificate of Analysis

Date of Testing: 2024-11-28 18:14:44  
Date of Next Testing: 2028-11-27 18:14:44  
Product Name: **Aluminum oxide**  
CAS Number: 1344-28-1  
Specifications & Purity: nanoparticles, < 30 nm particle size, 20 wt. % in isopropanol  
Lot #: K2421268  
SKU #: **A119403**  
Version: **0**  
Analysis #: **433818**

Parameter	Limit Values	Result
Purity(Based On Trace Metals Analysis)	99.99-100 (%)	99.99 %
Total Metallic Impuritie	0-200 (ppm)	100.00 ppm
Particle size	20-30 (nm)	30.00 nm
Al <sub>2</sub> O <sub>3</sub>	19-21 (wt%)	20.23 wt%
Dispersion PH	7.5-9.5	8.20
Appearance (A119403)	White Suspension	White Suspension
ICP:Confirms Aluminum Component	Confirmed	Confirmed
X-Ray Diffraction	Conforms to Structure	Conforms to Structure



John Su  
QA & QC Manager