

## Certificate of Analysis

Date of Testing: 2022-08-03 20:56:40  
Date of Next Testing: 2026-08-02 20:56:40  
Product Name: **Aluminum oxide**  
CAS Number: 1344-28-1  
Specifications & Purity: nanopowder, 99.99% metals basis,  $\gamma$ -phase,  $\leq 20$ nm  
Lot #: G2230297  
SKU #: **H102616**  
Analysis: **100718**

Parameter	Limit Values	Result
Particle size	0-20 (nm)	13.16 nm
Purity(Based on Trace Metals Impurities of ICP)	99.99-100 (%)	99.99 %
Total Metallic Impuritie	0-200 (ppm)	97.00 ppm
Appearance (H102616)	White powder	White powder
Crystal Type( $\gamma$ )	Pass	Pass
X-Ray Diffraction	Conforms to Structure	Conforms to Structure



John Su  
QA & QC Manager