

## Certificate of Analysis

Date of Testing: 2024-10-31 08:44:28  
Date of Next Testing: 2028-10-30 08:44:28  
Product Name: **Nano fumed silica**  
CAS Number: 112945-52-5  
Specifications & Purity:  $\geq 99.8\%$  metals basis, specific surface area(BET):115m<sup>2</sup>/g ; particle size:7-40nm  
Lot #: J2417774  
SKU #: **S104599**  
Version: **1**  
Analysis #: **409968**

Parameter	Limit Values	Result
Particle size	7-40 (nm)	19.86 nm
PH-value in 4% dispersion(Water:ethanol=1:1)	4.0-7.0	5.54
Carbon content(2h based on the product after drying 105 °C)	4-7 (%)	4.82 %
Silica content(Based on the product after ignition)	99.8-100 (%)	99.99 %
Loss on drying	0-0.7 (%)	0.00 %
Specific surface area (BET)	80-140 (m <sup>2</sup> /g)	115.14 m <sup>2</sup> /g
Tamped density(2h based on the product after drying 105 °C)	45-70 (g/L)	50.00 g/L
Appearance (S104599)	White flocculent solid	White flocculent solid
X-Ray Diffraction	Conforms to Structure	Conforms to Structure



John Su  
QA & QC Manager