

## Certificate of Analysis

Date of Testing: 2023-02-14 14:54:59  
Date of Next Testing: 2027-02-13 14:54:59  
Product Name: **Nano fumed silica**  
CAS Number: 112945-52-5  
Specifications & Purity: 99.8% metals basis,specific surface area(BET):260m2/g;particle size:7-40nm;Hydrophobic  
Lot #: B2311241  
SKU #: **S104591**  
Analysis: **149682**

Parameter	Limit Values	Result
PH-value in 4% dispersion(Water:ethanol=1:1)	5.5-8	6.33
Particle size	7-40 (nm)	11.02 nm
Tamped density(2h based on the product after drying 105 °C)	40-60 (g/L)	45.86 g/L
Carbon content(2h based on the product after drying 105 °C)	2.5-4 (%)	3.26 %
Loss on ignition(1000°C,2 h)	0-4 (wt%)	2.63 wt%
Loss on drying(105°C, 2 hrs)	0-0.5 (wt%)	0.33 wt%
Purity(Based On Trace Metals Analysis)	99.8-100%	99.96 %
Specific Surface Area	240-280 (m2/g)	277.00 m2/g
Appearance (S104591)	White powder	White powder



John Su  
QA & QC Manager