

## Certificate of Analysis

Date of Testing: 2024-03-04 11:43:56  
Date of Next Testing: 2028-03-03 11:43:56  
Product Name: **Nano fumed silica**  
CAS Number: 112945-52-5  
Specifications & Purity: 99.8%,specific surface area (BET) : 115m<sup>2</sup>/g ; particle size : 7-40nm  
Lot #: B2426360  
SKU #: **S104599**  
Analysis: **310764**

Parameter	Limit Values	Result
Specific surface area (BET)	100-130	105.90
Particle size	7-40 (nm)	20.12 nm
PH-value in 4% dispersion(Water:ethanol=1:1)	3.7-4.5	4.11
Carbon content(2h based on the product after drying 105 °C)	0.6-1.2 (%)	0.89 %
Silica content(Based on the product after ignition)	99.8-100 (%)	99.98 %
Loss on drying	0-0.5 (%)	0.33 %
loss on Ignition	0-2.5 (%)	1.05 %
Tamped density(2h based on the product after drying 105 °C)	25-60 (g/L)	42.30 g/L
Appearance (S104599)	White flocculent solid	White flocculent solid
X-Ray Diffraction	Conforms to Structure	Conforms to Structure



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QA & QC Manager