

## Certificate of Analysis

Date of Testing: 2023-04-13 18:44:54  
Date of Next Testing: 2027-04-12 18:44:54  
Product Name: **Nano fumed silica**  
CAS Number: 112945-52-5  
Specifications & Purity: 99.8%, BET: 150m<sup>2</sup>/g  
Lot #: D2308299  
SKU #: **N493103**  
Analysis: **196358**

Parameter	Limit Values	Result
Purity(Based On Trace Metals Analysis)	99.8-100 (%)	99.97 %
Trace Metal Analysis	0-0.2 (%)	0.03 %
Loss on drying	0-1.5 (%)	0.52 %
loss on Ignition	0-2 (%)	0.81 %
Specific surface area (BET)	135-165	151.62
Al <sub>2</sub> O <sub>3</sub>	0-300 (ppm)	13.40000 ppm
TiO <sub>2</sub>	0-200 (ppm)	0.00000 ppm
Fe <sub>2</sub> O <sub>3</sub>	0-30 (ppm)	6.68000 ppm
PH-value in 4% dispersion	3.9-4.5	3.91
Carbon content(2h based on the product after drying 105 °C)	0-0.2 (%)	0.02 %
Tamped density(2h based on the product after drying 105 °C)	40-60	52.00000
Sieve residue(45µm)	0-250 (ppm)	31.00000 ppm
Appearance(N493103)	White flocculent solid	White flocculent solid
ICP: Confirms Silicon Component	Confirmed	Confirmed



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QA & QC Manager