



NEWAY SINOPHC TECH. LIMITED

ADD:RM. 204, BUILDING 3, NO. 188, AONA RD., CHINA (SHANGHAI) PILOT FREE TRADE ZONE.
Email:marketing01@newayphc.com; Phone:+86-021-50350029 <https://www.newayphc.com>

Certificate of Analysis (COA)

Product Information

Item	Details
Product Name	Silica Sol
Product Number	SS-20260221
Batch Number	SS-SH2026022101
Brand	SIGALD
CAS Number	112926-00-8
MDL Number	MFCD00131744
Formula	SiO ₂ ·nH ₂ O (Amorphous Silica Hydrate)
Formula Weight	Variable (SiO ₂ : 60.08 g/mol)
SiO ₂ Content	30.0 ± 0.5% (w/w)
Quality Release Date	21 FEB 2026

Test Results

Test	Specification (Industry Standard)	Result	Unit	Test Method
Appearance (Color)	Colorless to pale blue	Colorless	-	Visual Inspection
Appearance (Form)	Transparent colloidal liquid	Transparent colloidal liquid	-	Visual Inspection
SiO ₂ Content	29.5–30.5%	30.2%	%	Gravimetric Method (Ignition at 1050°C)
pH Value (25°C)	8.5–10.5	9.2	-	Digital pH Meter
Particle Size (Average)	10–20 nm	15 nm	nm	Dynamic Light Scattering (DLS)
Viscosity (25°C)	≤ 10 mPa·s	6 mPa·s	mPa·s	Brookfield Viscometry
Density (25°C)	1.18–1.20 g/cm ³	1.19 g/cm ³	g/cm ³	Pycnometer
Conductivity (25°C)	≤ 2000 μS/cm	1500 μS/cm	μS/cm	Conductometer
Na ₂ O Content (as impurity)	≤ 0.3%	0.15%	%	Flame Photometry
Fe ₂ O ₃ Content	≤ 0.005%	0.002%	%	Atomic Absorption Spectrometry (AAS)
Heavy Metals (Pb)	≤ 5 ppm	0.8 ppm	ppm	Atomic Absorption Spectrometry (AAS)
Stability (25°C, 30 days)	No gelation/sedimentation	No gelation/sedimentation	-	Visual Inspection

Certification

This batch of product has been tested in accordance with industrial standards for silica sol and meets all specified requirements. It is qualified for use.

Issue Date: 21 FEB 2026