NEWAY SINOPHC TECH. LIMITED
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Certificate of Analysis

Product Name: Poly Aluminum Ferric Chloride (PAFC)

Product Information

- Product Number: PAFC-20260120-001
- Batch Number: PAFC-2026012001
- Brand: SIGALD
- CAS Number: N/A (Inorganic polymer mixture)
- MDL Number: N/A (No specific MDL for composite polymer)
- Formula: $[Al_2(OH)_n\ Cl_{6-n}]_m \cdot [Fe_2(OH)_p\ Cl_{6-p}]_k$ (n=1-5; p=1-3; m,k=f(n,p))
- Formula Weight: Variable (approx. 200-350 g/mol, based on polymerization degree)
- Quality Release Date: 20 JAN 2026

Test Item	Specification (Industrial Standard)	Result	Test Method
Appearance	Dark brown to reddish brown transparent liquid	Dark brown transparent liquid	Visual Inspection
Aluminum Oxide (Al_2O_3) Content	≥ 8.0%	9.2%	Complexometric Titration (EDTA Method)
Iron Oxide (Fe_2O_3) Content	≥ 3.0%	3.8%	Redox Titration
Basicity	50.0-80.0%	65.3%	Acid-Base Titration
pH Value (1% Aqueous Solution, 25℃)	3.5-5.0	4.3	Digital pH Meter
Insoluble Matter in Water	≤ 0.5%	0.12%	Gravimetric Method
Heavy Metals (Pb)	≤ 0.0005%	0.0001%	Atomic Absorption Spectrometry (AAS)
Arsenic (As)	≤ 0.0001%	0.00004%	Atomic Fluorescence Spectrometry (AFS)
Chromium (Cr^{6+})	≤ 0.0002%	0.00007%	Diphenylcarbazide Spectrophotometry
Mercury (Hg)	≤ 0.000005%	0.000001%	Atomic Fluorescence Spectrometry (AFS)
Cadmium (Cd)	≤ 0.00005%	0.00002%	Atomic Absorption Spectrometry (AAS)
Viscosity (25℃)	15-35 mPa·s	26 mPa·s	Rotational Viscometer
Density (25℃)	1.20-1.35 g/cm³	1.28 g/cm³	Hydrometer Method
Supplier Information	Confirmed	Confirmed	-
Registered Trademark	Confirmed	Confirmed	-

This batch of product has been tested in accordance with industrial standards for poly aluminum ferric chloride and meets all specified requirements. It is qualified for use.Issue Date: 05 JUN 2026