

## Certificate of Analysis

**Product Name:** Polyferric Sulfate (PFS)

### Product Information

- Product Number: PFS-CAS1327419-202610
- Batch Number: PFS-2026101001
- Brand: SIGALD
- CAS Number: 1327-41-9
- MDL Number: MFCD00167117
- Formula:  $[\text{Fe}_2(\text{OH})_n (\text{SO}_4)_{3-n/2}]_m$  ( $n=0.5-2.0$ ;  $m=f(n)$ )
- Formula Weight: Variable (approx. 330-380 g/mol, based on polymerization degree)
- Quality Release Date: 10 OCT 2026

Test Item	Specification (GB/T 14591-2016)	Result	Test Method
Appearance	Dark red brown transparent liquid	Dark red brown transparent liquid	Visual Inspection
Total Iron (as Fe)	≥ 11.0%	11.6%	Potassium Dichromate Titration
Reducible Substances (as Fe <sup>2+</sup> )	≤ 0.15%	0.05%	Potassium Permanganate Titration
Basicity	10.0-18.0%	14.5%	Acid-Base Titration
pH Value (1% Aqueous Solution, 25°C)	1.8-3.2	2.6	Digital pH Meter
Insoluble Matter in Water	≤ 0.5%	0.19%	Gravimetric Method
Lead (Pb)	≤ 0.0008%	0.0002%	Atomic Absorption Spectrometry (AAS)
Arsenic (As)	≤ 0.00015%	0.00007%	Atomic Fluorescence Spectrometry (AFS)
Chromium (Cr <sup>6+</sup> )	≤ 0.0004%	0.0001%	Diphenylcarbazide Spectrophotometry
Mercury (Hg)	≤ 0.000008%	0.000003%	Atomic Fluorescence Spectrometry (AFS)
Cadmium (Cd)	≤ 0.00008%	0.00003%	Atomic Absorption Spectrometry (AAS)
Viscosity (25°C)	15-35 mPa·s	28 mPa·s	Rotational Viscometer
Density (25°C)	1.48-1.58 g/cm <sup>3</sup>	1.52 g/cm <sup>3</sup>	Hydrometer Method
Supplier Information	Confirmed	Confirmed	-
Registered Trademark	Confirmed	Confirmed	-

This batch of product has been tested in accordance with GB/T 14591-2016 and meets all specified requirements. It is qualified for use. Issue Date: 10 OCT 2025