



FERRIFLOC

ferric chloride sulfate solution

Precipitant and flocculant for

- Phosphate elimination
- Bulking sludge abatement
- Relief flocculation
- Hydrogen sulfide elimination
- Drinking water and process water treatment
- Cooling tower make-up water treatment
- Sludge conditioning
- Industrial effluent treatment

Formula	FeClSO ₄
Form	Dark-brown solution, about 41% concentration
European Standard	EN 891

Active substance 123 g Fe/kg \triangleq 2.20 mol/kg

Typical composition	Iron (Fe ³⁺)	12.3	%
	Iron (Fe ²⁺)	0.07	%
	Insolubles	< 0.02	%
	Chloride	7.8	%

Trace elements	As < 0.1	mg/kg*	Pb < 1	mg/kg
	Cd < 0.1	mg/kg*	Sb < 0.1	mg/kg*
	Cr 8	mg/kg	Se < 0.1	mg/kg*
	Cu 1	mg/kg	Zn 65	mg/kg
	Hg < 0.01	mg/kg*	AOX 8	mg/kg
	Ni 32	mg/kg		

* Detection limit

Density 1.52 g/cm³

Delivery In bulk by rubber-lined road tanker
or packed in plastic containers and drums

pH value	<1
Consumption of acid capacity ($K_{S4,3}$)	0.44 mmol/100 mg
Concentration for use	Undiluted as delivered or diluted with water to a ratio of 1: 30 at most
Freezing point	From approx. $-10\text{ }^{\circ}\text{C}$ marked increase in viscosity* From approx. $-15\text{ }^{\circ}\text{C}$ start of crystallisation* <small>* Targeted dilution with water can prevent crystallisation, so that there are no restrictions in terms of winter operation. Dilution tables (addition of water to the storage tank) are available on request. Dilute product should be used all year round in the event of low throughput quantities and long storage times.</small>
Recommended materials	All common plastics except polyamide
Storage	If you receive fewer than 5 road tanker deliveries of FERRIFLOC per year, we recommend that the storage tank be filled with 5-10% or 1-2 m ³ water prior to each delivery. Independently of this, the storage tank should be washed out annually.
Safety	Before using any of our products, please consult our Safety Data Sheets.

The information in this publication is intended to serve as a guide, but is not necessarily complete and is given without warranty. Caution must be exercised to comply with statutory obligations and to avoid infringing rights of third parties.

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