WATCH WATER
a Water Company

RED-OXY TREATMENT
FILTRATION
ADSORPTION
FILTERSORB
INSTANT PRODUCTS
SYSTEMS

FERRIC-SG

Watch Water's FERRIC-SG is an effective primary coagulant in dry granulated form based on trivalent iron (Fe^{3+}). The iron content is 19 - 22% present in the form of ferric iron. The product is soluble in water up to a concentration of approximately 10% Fe-solution (approx. 36% $Fe_2(SO_4)_3$). Compared to chloride-containing products, **FERRIC-SG** has a lower consumption of water alkalinity, which improves the pH level even for waters with low buffer capacity. Due to its solid form, **FERRIC-SG** is dust-free, non-caking and therefore easy to handle and store.

FERRIC-SG, a high-purity granulated ferric sulphate, is excellent for raw water and wastewater treatment. It removes particles and nutrients from the water over a wide pH range and its fast coagulation and floc formation is impressive. In addition, **FERRIC-SG** prevents odour, health risk and corrosion by controlling the formation of hydrogen sulphide.

HIGH CAPACITY FERRIC-SG IS
100%
ALUMINIUM & COPPER FREE

FERRIC-SULFATE GRANULES

APPLICATIONS

- Raw Water Treatment
- Wastewater Treatment
- Odour & Color Control
- Algae & Corrosion Control
- Arsenic & Ammonia Removal
- Arsenic, Nutrient & H2S Removal
- Coagulation/Flocculation
- Disinfection by-product
- Only Waste Separation
- Heavy Metals Separation
- Sludge Conditioning
- Suspended Solids Removal
- TOC - Total Organic Removal
- COD/BOD Reduction
- Wastewater Clarification
- Water Clarification
- 100% Chloramine Reduction

BENEFITS

- High purity granulate
- Excellent performance over a wide pH-range
- Fast coagulation and floc formation
- Faster sludge settling because of heavier and denser flocs.
- Lower consumption of alkalinity
- Non-corrosive as a dry product
- Easy to handle and store

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FERRIC-SG APPLICATIONS

RAW WATER TREATMENT

To obtain clean and aesthetic water, it is crucial to eliminate particles like sand, clay, organics, metals, microorganisms, etc. Other quality criteria including microbiological stability and disinfection by-products, which are usually sources of taste and odour, are impacted by particles in this resulting water. Also, these particles may act as a shield for the microbes, reducing effectiveness of disinfection. Insanely low residual particle matter can be achieved with our **FERRIC-SG** designed for the removal of suspended solids.

ONE SOLUTION FOR MANY TYPES OF WATERS

WASTEWATER TREATMENT

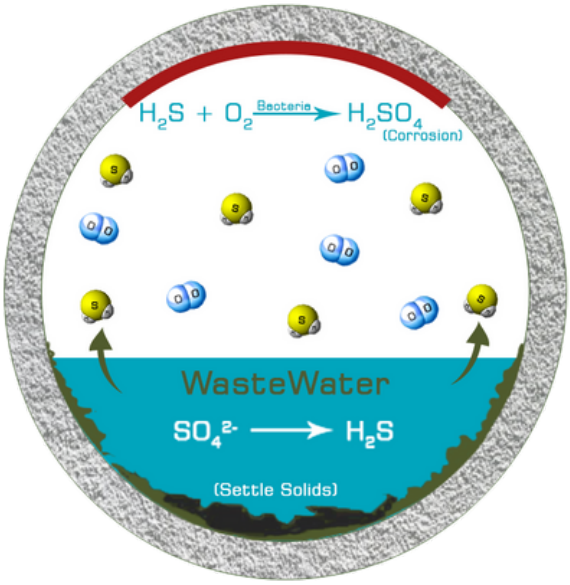
It is very crucial to remove particles, nutrients, and organic material wastewater treatment facilities. These particles are the cause of Eutrophication, especially nitrogen and phosphorus, because they promote the growth of organic materials and algae in water bodies. Chemical precipitation is usually employed for phosphorus removal. An aluminium or iron-based coagulant is often used during chemical treatment. **FERRIC-SG** is the best coagulant in the market to remove phosphorus. Particles, organic debris, and other contaminants will also be greatly reduced in addition to the removal of phosphorus. Every wastewater treatment facility can readily use **FERRIC-SG** for wastewater treatment.

To avoid the use of multistage biological treatment, nutrients and sediments must be treated in a single step by direct precipitation with **FERRIC-SG**. **FERRIC-SG** coagulant excel at removing phosphorus from wastewater. It is a low-investment, low-cost process that uses very little energy.

TECHNICAL DATA

ODOUR AND CORROSION CONTROL

In wastewater treatment facilities and sewage systems, numerous contaminants can cause odour problems. The most prevalent one is hydrogen sulphide (H_2S), which has a strong rotten-egg odour. This gas is extremely unpleasant, and because it is highly dangerous, it poses a risk to both community members and workers' health and safety. All metals exposed to hydrogen sulphide corrode because the gas is so aggressive. Moreover, it greatly damages the concrete pipe tops. **FERRIC-SG** can be useful in addressing odour issues in wastewater treatment facilities and sewage systems, particularly with the removal of hydrogen sulphide (H_2S). Additionally, **FERRIC-SG** can help to reduce the risk of corrosion by forming a protective layer on the surface. This protective layer can help to prevent damage from the aggressive H_2S gas and other corrosive elements.



DOSING

FERRIC-SG can be dissolved in water and dosed via suitable chemical metering pumps.

PACKAGING

- 30 kg bag
- 40 bags on Pallet
- Big Bags of 1000 kg

For more information on products, please contact us.

TECHNICAL DATA

SPECIFICATIONS		
Appearance	Yellow Grayish Granules	
Bulk density	1050 – 1290 Kg/m^3	
Total Iron Content	21 - 23 %	
Ferric Iron (Fe^{3+})	19.5 – 22 %	
Ferrous Iron (Fe^{2+})	≈ 1 %	
Sieve Analysis	< 4.0 mm < 1.5 mm < 0.2 mm	> 98 % 50% < 1 %
Freezing Point	19° C / -2.2° F	

CONTACT US

WATCH WATER GmbH
Fahrlachstr. 14,
68199 Mannheim,
Germany

Tel: +49 (0) 621 87951 51 0
Fax: +49 (0) 621 87951-99
Email: info@watchwater.de
Website: www.watchwater.de