Iron hydroxide
in municipal wastewater treatment

Aerial view of a wastewater treatment plant, individualized with possible applications of products from HeGo Biotec GmbH (Source: peteri|stock.adobe.com)

Iron hydroxide - the allrounder

Whether in pollutant removal from stormwater (1.), odor and corrosion control in the sewer system (2.), phosphate elimination in wastewater treatment plants of all sizes (3.), or sludge digestion and digester gas treatment (4.) - our iron hydroxide-based products are a real alternative along the entire treatment chain of municipal wastewater.

Would you like to learn more? Our staff will be happy to advise you individually!

FerroSorp® DG - products

FerroSorp® S - products

HeGo® BIOTEC INTERNATIONAL

1. FerroSorp® RW – special adsorbent for the treatment of storm water runoff

Rain runoff on the roadside (Source: JJ Gouin|stock.adobe.com)

This iron hydroxide based mixed granulate has been specially developed for the separation of nutrients and pollutants from stormwater runoff and is suitable for use in both manhole and retention soil filters.

Your advantages:

- Cost-efficient and effective, with long operating time
- Simultaneous binding of phosphate, mineral oils and heavy metals
- Resistant to De-icing salts

2. The GoSil® process - for the prevention of corrosion and odor in the sewer network

Interior view of a sewer pipe (Source: Mulderphoto|stock.adobe.com)

GoSil® products are liquid reactants based on iron hydroxide. These products, which are not classified as hazardous to water, prevent the formation of hydrogen sulfide (H_2S), which leads to corrosion and odor in the sewer system.

Your advantages:

- Safe reduction of H_2S in the sewer network
- Year-round operation possible
- GoSil®-dosing system with economical consumption due to intelligent microprocessor control

3. FerroSorp® AW / DGf-Tz – for phosphate elimination

Algae formation in the effluent of a wastewater treatment plant, e.g. due to high phosphate concentration (Source: Horst|stock.adobe.com)

The filter granulate Ferrosorp® AW was specially developed for phosphorus elimination in the effluent of small wastewater treatment plants. Our earth-moist Ferrosorp® DGf-Tz represents an ecological alternative to the use of iron or aluminum salts in phosphate precipitation in municipal wastewater treatment plants of any size.

Your advantages:

- Your high cleaning performance at low cost
- Easily retrofittable solution
- Regenerability of the filter granulat

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4. FerroSorp® DG – for the removal of hydrogen sulphide internally (H_2S)

Wastewater treatment plant with digestion towers (Source: Arnd Drifte|stock.adobe.com)

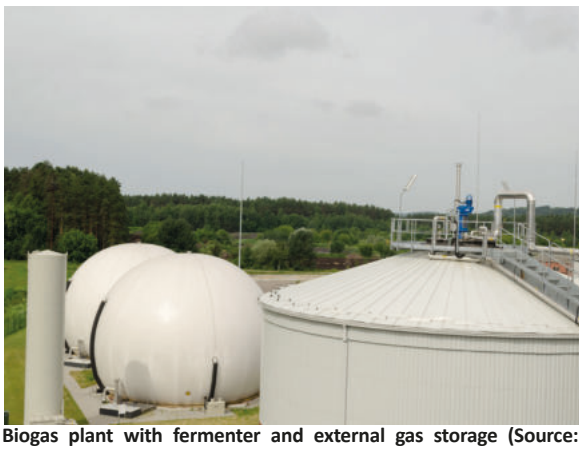
These iron hydroxide based powder products are characterized by a high amorphous iron content, which is crucial for safe and efficient H_2S elimination.

Our products guarantee an optimal removal of H_2S when used in the fermenter.

Your advantages:

- Binding of the sulphides already in the digester.
- No salinization of the digested sludge
- Uninhibited methanogenesis and optimized digester gas yield

5. FerroSorp® S – for the external desulfurization of hydrogen sulphide



Biogas plant with fermenter and external gas storage (Source: sauletas|stock.adobe.com)

FerroSorp® S is a pelletized and highly effective adsorbent based on iron hydroxide. With our formed gas cleaning compound we offer you a robust, versatile, effective and economical process for the best possible removal of H_2S from sewage gas.

Your advantages:

- Proven for over 20 years
- Very economical, high efficiency, high loading rate
- Achieves 0 ppm H_2S in the clean gas

We gladly advise you individually!

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