

FerroSorp[®] S

Pelletised hydrogen sulfide filter media for external desulfurization of landfill gas

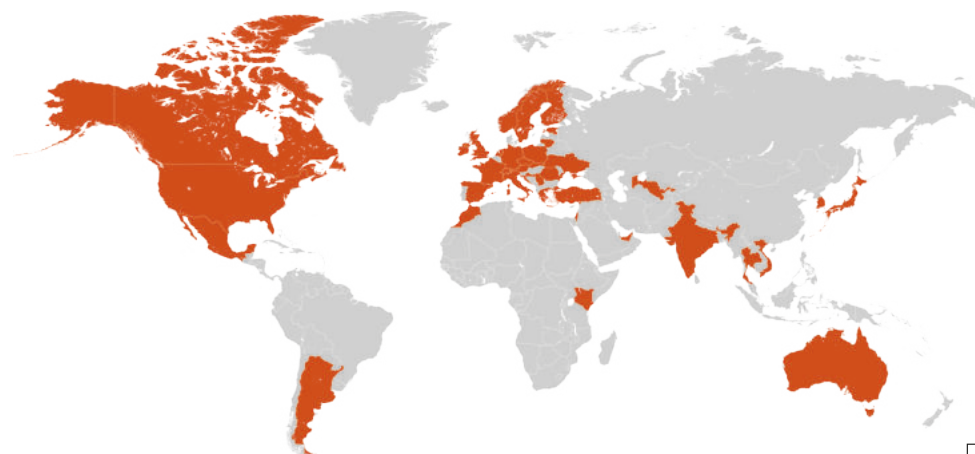
Landfill gas contains many pollutants. Among them is H₂S which is known to be extremely toxic, highly corrosive, and foul-smelling. Maximum concentration thresholds for H₂S vary from site-to-site and are limited either for technical reasons (to protect downstream equipment and machinery such as CHP's, turbines, gas-upgrading equipment, etc.) and/or for regulatory reasons mandated by government agencies (i.e. air-quality standards, SO₂ emissions, etc.).

To consistently achieve technical and regulatory compliance, a robust, economical and effective solution, such as FerroSorp[®] S – a high quality product **Made in Germany** – is required. For over 20 years FerroSorp[®] S has proven itself to be **the best product for the job**, even under some of the harshest, most-challenging gas conditions. The result is, that each year more and more sites around the globe opt for using FerroSorp[®] S as their **solution to the H₂S problem**.



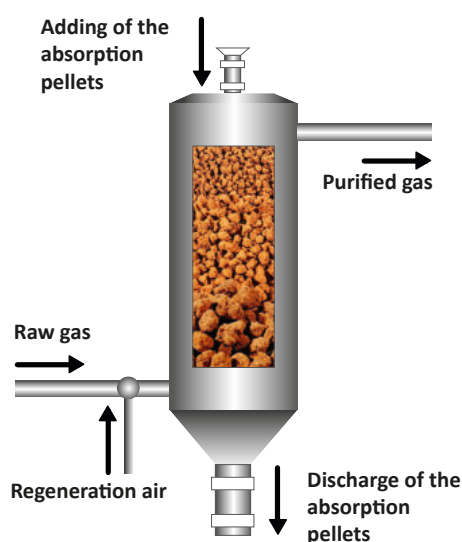
Landfill gas application, Quebec, Canada
(Source: HeGo Biotec GmbH)

Gas Flow	1,200 m ³ /h
H ₂ S concentration	1,250 ppm
Relative Humidity	30 %

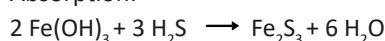


The process

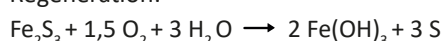
Gas containing H₂S is passed through a filter vessel filled with FerroSorp® S media pellets. Two chemical reactions occur: First, H₂S and iron hydroxide react to form solid iron sulphide. Second – either simultaneously or in a parallel vessel – oxygen converts the pellets back into iron hydroxide in a process called regeneration. Elemental sulphur is formed and accumulates within the pores of the media pellets, which results in high loading rates, long media lifecycles, and minimised clumping.



Absorption:



Regeneration:



**We gladly advise
you individually!**

HeGo Biotec International GmbH

Goerzallee 305 d · 14167 Berlin
Germany

Phone: +49 30 84 71 85 50

Email: info@hego-biotec.com

www.hego-biotec.com

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Advantages

- **Well proven**, non-hazardous product
- 20+ years of experience
- **Low removal costs** for H₂S compared to other leading technologies
- **High loading capacities** due to selective desulphurisation
- **Fast reaction**, achieves 0 ppm H₂S at outlet
- **Easy handling**
- **Superior performance** in gases **without air/O₂**
- Possible use as **fertilizer***
(* depending on regulations/legislation)

You can choose from our broad selection:



FerroSorp® S 2 - 4 mm



FerroSorp® S 2 - 8 mm



FerroSorp® S 5 - 25 mm

Note: Illustrations are not to scale.

