

FerroSorp® S

Pelletised hydrogen sulfide filter media in industrial applications such as CO₂-gas and synthesis gas

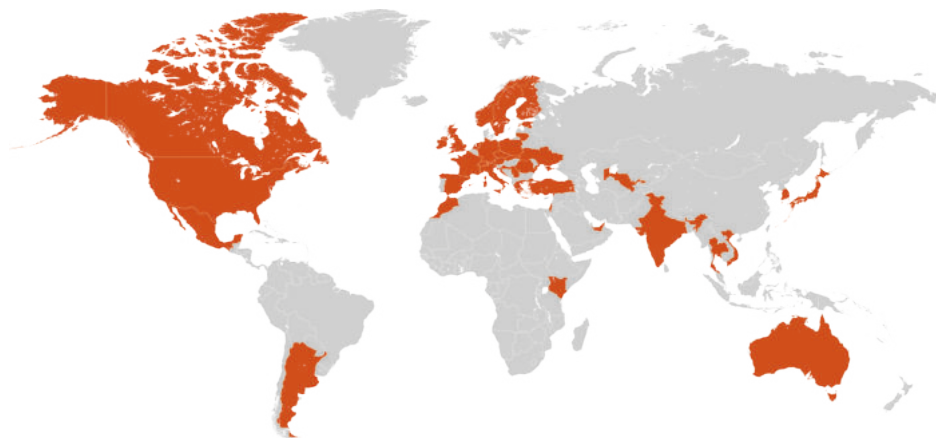
Industrial gases such as synthesis gas (syngas) and CO₂-rich gas for CO₂-production usually contain hydrogen sulfide, especially when produced from coal, decaying biomass or other sulfur-rich raw materials. The toxic, corrosive effects of H₂S are well-documented and contribute to decreased gas quality. In some cases, H₂S may also result in the production of dangerous SO₂ emissions. Because industrial applications operate under such broad varieties of conditions as far as pressure, temperature, H₂S freight, humidity are concerned, it is critical for plant operators to utilize technology that is proven, versatile, and economically feasible for their applications. Our FerroSorp® S media pellets are specifically designed to easily overcome even the most challenging industrial conditions.

FerroSorp® S – a high quality product **Made in Germany** – is a pelletized and highly effective media based on iron hydroxide.

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**.

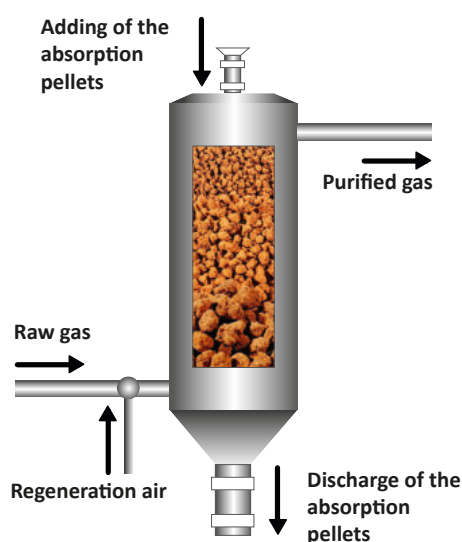


Applicable for H₂S-containing gases such as syngas, CO₂-gas, geothermal fields and oil & gas-industry
(Source: funfunphoto | stock.adobe.com)

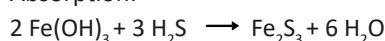


The process

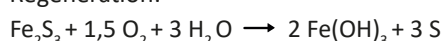
Gas containing H₂S is passed through a filter vessel filled with FerroSorp® S media pellets. Two chemical reactions occur: First, H₂S and iron hydroxide react to form solid iron sulphide. Second – either simultaneously or in a parallel vessel – oxygen converts the pellets back into iron hydroxide in 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.

