

H₂S Removal Media

Choosing FerroSorp, the **industry leading** iron based H₂S removal media, will maximize process efficiency and **save you time and money.**

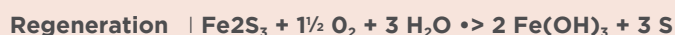
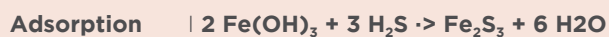
Advantages of FerroSorp

Feature	Benefit
High loading rates	Capable of > 60% by weight
Iron-Hydroxide based media	Iron-Hydroxide is highest purity iron for H ₂ S removal
Low bulk density vs competitors	Need less weight to fill your tank, lower freight costs
Outlet H ₂ S concentration < 1 ppm	Meets strict regulations
Less caking/clumping	Easier to change out, reduced maintenance cost
Environmentally non-hazardous	Low-cost, can be land applied as fertilizer
Low pressure drop	Does not clump - Saves electricity
Industry leading absorption capacity in low O ₂ applications	Ideal for pipeline injection sites/RNG

How Can FerroSorp Achieve 60% + Loading Rates

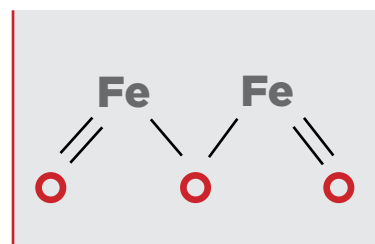
FerroSorp with its Iron-Hydroxide base ingredient captures H₂S and with a small amount of oxygen it will convert the captured H₂S to elemental sulfur. This chemical conversion will free up more adsorption space in the pellets. That is how it can obtain much higher loading rates than all other iron-based products.

The removal of H₂S from various gas streams can be described through the following chemical reactions:

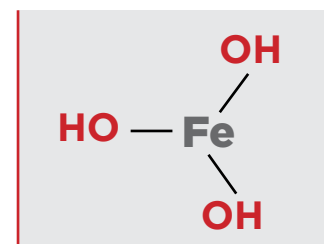


Why Iron Hydroxide Works Well in this Application

Oxygen promotes higher absorption capacities in H₂S removal medias. Our unique iron hydroxide-based media inherently contains twice as much oxygen per iron atom than traditional iron oxide, giving it an edge when battling H₂S removal costs in low oxygen gas streams.



Iron Oxide



Iron Hydroxide

PROVIDE US YOUR PROCESS CONDITIONS AND WE WILL PROVE IT!

INDUSTRY LEADING LOW PRESSURE DROP

Pressure drop costs money

Pressure drop is very low when using FerroSorp due to the non clumping effect.

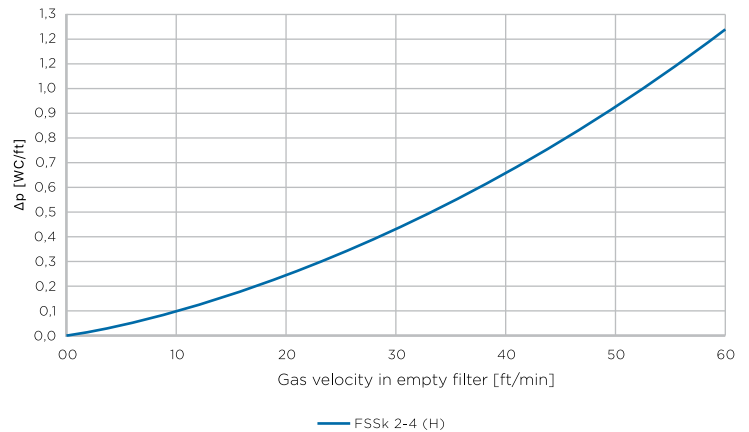
Comments from site managers using FerroSorp:

"Pressure drop improved greatly, it was 25" WC when using iron sponge and now it is 2" to 3" water column under the same conditions"

"After 5 months run time the pressure drop of 2 psig has not changed it was 6 to 7 psig with iron sponge and the pressure drop kept getting worse over time."

"We saw an added benefit of improved parasitic load of other equipment like vacuum pumps and compressors due to the improved pressure drop"

Pressure Drop Curve



FerroSorp works best when gas velocity is less than 30 feet per minute

Bulk density and loading

The density of FerroSorp combined with its high loading rate and low cost provides the best balance of optimized plant operation. The result is fewer change-outs per year and your lowest OpEx for H₂S removal.



Engineered to Work Together: The VAV - Vacuum Absorption Vessel

Designed with each other in mind, FerroSorp and the VAV are a perfect combination of media and vessel for H₂S removal. Ask us today about rapid deployment options.

FerroSorp Factory

FerroSorp's active ingredient is Iron-Hydroxide which is a high grade iron which is found in Germany derived as a by product from their lignite coal mining operations.



Due to the high demand for FerroSorp in North America the factory has expanded to triple the production capacity.