# SULFATREAT* 2242 PLUS

Reduced-Pressure-Drop Iron Oxide-Based Hydrogen Sulfide Absorbent

## Applications

- Hydrogen sulfide ($H_2S$) removal from water-vapor-saturated gas streams
- Odor removal

## Benefits

- Simple, reliable, predictable performance
- Cost-effective removal of $H_2S$
- Minimal operator attention required
- Ability to adapt to variable process conditions

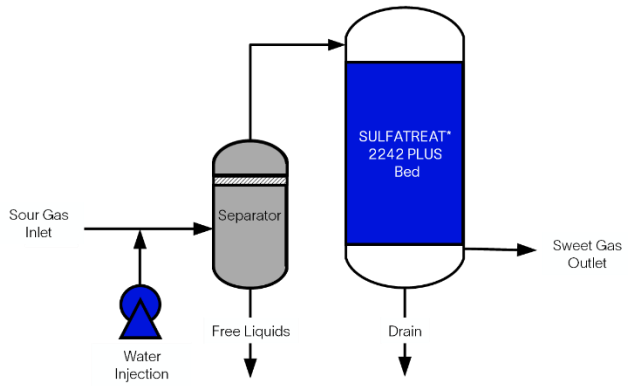
## Features

- Operating flexibility
- Predictable, consistent pressure drop
- Simple vessel changeouts
- Straightforward disposal of spent media
- Industry-leading performance warranty

SULFATREAT* 2242 PLUS reduced-pressure-drop iron oxide-based $H_2S$ adsorbent is a nonhazardous granular material engineered for purification of gas streams. During the adsorption process, water-vapor-saturated gas or vapor flows down through the adsorbent in the vessel's bed. $H_2S$ chemically reacts to form a stable by-product.

Product consumption is dependent only on the amount of $H_2S$ that passes through the bed. This economically matches the need for $H_2S$ removal with variations in system flow conditions and outlet specifications regardless of the total volume or other common components of the gas. Upstream of the SULFATREAT* 2242 PLUS adsorbent vessel(s), the installation requires water injection to assure 100% water-vapor-saturated gas and an inlet separator to remove free liquids from the gas.

| Typical Physical Properties: | |
|---|---|
| Form | Granular |
| Nominal size range | 4 - 10 mesh |
| Packing density | 68.9 – 75.9 lb/ft$^3$ [1.10 - 1.22 kg/L] |
| Packaging | 2,000 lb [907 kg] bulk bags |




## Handling, Safety, and Environmental Properties

SULFATREAT* 2242 PLUS adsorbent should be handled in compliance with proper safety procedures, such as permit-to-work systems, risk assessments, job safety analysis, chemical handling assessments, lifting studies and applicable disposal regulations. It is recommended that an experienced contractor be engaged for product loading and discharge.

The spent media is non-pyrophoric. Our experts can help you determine the best option for recycling or disposing of spent material. Disposal routes are well established, and personnel are available for onsite installation and removal support. Should any foreign contaminating materials be contained in the gas or otherwise be introduced to the reactor, the resultant mixture may require special disposal considerations. Spent media should be analyzed by the operator, and any regulatory or local approvals needed to be obtained.



PIB Support Document

## Shelf-Life and Storage

SULFATREAT* 2242 PLUS media is supplied in UV treated and coated polypropylene bulk bags. Unless otherwise stated, the shelf life of SULFATREAT* 2242 PLUS is not less than 3 years from the date of delivery provided it is stored correctly and within the conditions specified in the SDS. The product should be stored in the original unopened containers, ensuring that the top opening is properly tied off. Storage should be in a covered warehouse, or if in the open, fully covered with a waterproof, UV protected material from preventing damage by water or sunlight. The product should be stored between 5 - 40°C (40 - 105°F).