

# SULFURTRAP™

## HIGH PERFORMANCE HYDROGEN SULFIDE SCAVENGER

### Manufacturer

Chemical Products Industries, Inc.  
7649 SW 34<sup>th</sup> St., Oklahoma City, Ok 73179  
(800) 624-4356 (405) 745-2070

### Product Description

SULFURTRAP is a solid, non-hazardous, sphere shaped material used for the removal of hydrogen sulfide (H<sub>2</sub>S), mercaptans, carbonyl sulfide, and other sulfur compounds from liquid and gaseous streams using a simple fixed bed reactor process. SULFURTRAP offers uniform pressure-drop, operates over a broad temperature and pressure range, is capable of high sulfur loading capacities, and is safe and easy to use. Computer generated process information ensures SULFURTRAP will fit your application requirements.

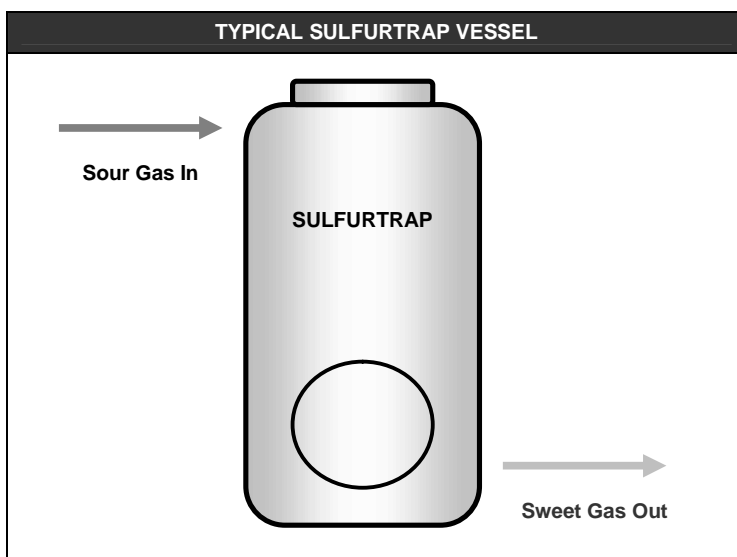
### Physical Properties

Type	Scavenger/Catalyst/Absorbent
Appearance	Solid, Sphere
Particle Size	5x12 Mesh (typ.)
Density	80 lbs./cu. ft.
Active Substance	Iron
Odor	None



### Process

In a typical configuration, SULFURTRAP can be packed into a vertical vessel or used in a lead-lag vessel configuration whereby gas or vapor flows through the bed. The sulfur compounds in the gas or vapor feed chemically react with SULFURTRAP and absorb or become trapped within the particle. The sulfided material is both safe and stable. Spectrol microscopic studies have shown that sulfur is absorbed to the core of the particle and exhibits no "shell" or "skin" effect on the outside of the particle. Under certain operating conditions, SULFURTRAP has shown >30% sulfur loading capacity by weight.



### Applications

- Natural Gas
- Natural Gas Liquids
- Acid Gas Streams
- Liquid Carbon Dioxide
- Syngas
- Anaerobic Gas
  - Landfills
  - Lagoons
- Geothermal Gas

### Advantages

- Excellent sulfur removal capacity
  - > 30% by weight with regeneration
- Useful over broad temperature and pressure range
- Does not require H<sub>2</sub>O injection
- Environmentally non-hazardous
- Does not agglomerate or cake
- Easy loading and unloading
- Solid form prevents foaming and carryover
- Removes most organic sulfur compounds

### Toxicity and Handling

SULFURTRAP is environmentally non-hazardous. Follow all federal, state and local regulations for disposal and handling. For complete toxicity and handling information please consult the MSDS for this product.

### Technical Service

Technical service engineers and chemists are available to answer questions regarding product application, process conditions and vessel configuration/design.

### Packaging and Distribution

SULFURTRAP is available in 100-lb (46-kg) sacks as well as 2,000-lb (907-kg) bulk bags. Please contact Chemical Products Industries, Inc. for availability and pricing.

[www.chemicalproductsokc.com](http://www.chemicalproductsokc.com)

