

HIGGINS & HEWINS

Air and Gas Purification Systems

TYPE: **SULFATREAT-HC**

AIR & GAS PURIFICATION MEDIA



PRODUCT INFORMATION

GENERAL DESCRIPTION

SulfaTreat-HC utilizes the same basic principles of the SulfaTreat processes but with improved reaction and liquid-stability characteristics. It is a dry, granular, non-hazardous material that effectively removes hydrogen sulphide and methyl and ethyl Mercaptans from a wide range of liquids, in a fixed-bed process. The capacity of SulfaTreat HC is 5 to 12% by weight of sulphur compounds. The type of product being treated and the temperature at the point of treatment determine the maximum rising-flow velocity through the media. The bed height needed is determined by the inlet concentration and contact time necessary to meet outlet product specifications.

APPLICATION

SulfaTreat-HC currently has three basic applications:

- **Removal of dissolved H₂S.**
SulfaTreat HC will react with Hydrogen sulphide to form FeS₂, or pyrite, on the media. Pyrite is a safe and stable form of iron sulphide. Removal of H₂S reduces the sulphur concentration of the liquid hydrocarbon.
- **Removal of methyl and ethyl Mercaptans (in the presence of H₂S).**
Sulfatreat HC will manageably react with methyl and ethyl Mercaptans. A combination of destruction and some conversion to the corresponding disulfide occurs in removing these compounds. Some reaction is observed with heavier Mercaptans but cannot be reliably managed at this time.
- **Treating light liquid hydrocarbons.**
Full water saturation is not necessary, and separation of excessive water and solids should occur up stream of the SulfaTreat HC unit. Liquid passes in an up flow mode with some free space at the top.

SulfaTreat HC should not be used to treat emulsified liquids but will tolerate small amounts of dissolved and entrained water. Typical contaminant levels treated can be up to 1000+ ppm by design. Single, parallel flow and lead/lag configurations can be used.

PHYSICAL PROPERTIES

Appearance and odour Black, granular, odourless
H₂S removal capacity 5 to 12% by weight

ADVANTAGES

- Unused and used product is environmentally safe and stable.
- Improved reaction and liquid stability characteristics for treating a wide range of liquids.
- Reaction is dependant only upon, and proportionate to, presence of H₂S.

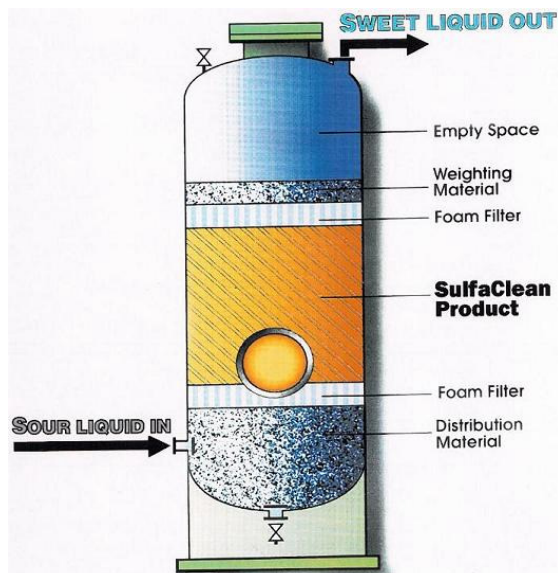
DISTRIBUTION & HANDLING

SulfaTreat HC is environmentally safe and environmentally non hazardous in its un-reacted and reacted forms.

SulfaTreat HC is available in 907 kg (2,000 lb.) super sacks from our Warehouse in Stourbridge, West Midlands.

Higgins and Hewins will assist owners and contractors by specifying the appropriate SulfaTreat-HC system

Shipping DOT Non-Hazardous



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