

# HIGGINS & HEWINS

Air and Gas Purification Systems

TYPE: **SULFATREAT-410HP**

**AIR & GAS PURIFICATION MEDIA**



## PRODUCT INFORMATION

### GENERAL DESCRIPTION

SulfaTreat-410HP safely and irreversibly removes Hydrogen Sulphide and other sulphur type odours from any air stream. SulfaTreat-410HP is a non-corrosive, granular material that selectively treats Hydrogen Sulphide and light mercaptans (methyl and ethyl) in a batch type process. This high capacity product is unique in that it reliably and predictably functions in partial to fully humid air. SulfaTreat-410HP is easy to handle and environmentally safe in both its un-reacted and reacted forms for easy disposal. All concentrations of Hydrogen Sulphide can be treated to virtually any outlet concentration desired. SulfaTreat-410HP systems are extremely flexible, maintaining treatment during variations encountered in normal operation without operator adjustment. This product is also ideal for treatment of biogas (digester and landfill) and other streams that benefit from the very low pressure drops characteristics of SulfaTreat-410HP.

### APPLICATION

SulfaTreat-410HP can be used in common drum, box, or tank type vessels. Entrained or condensed liquids should be removed in a separator, knockout, or drip pot, just prior to entering the vessel(s). SulfaTreat-410HP is applied in fixed bed reaction vessels operated, preferably, in down-flow mode (helps prevent accumulation of condensed liquids). Bed depths can range from 450 mm, with good inlet distribution and outlet collection design, up to 12 meters deep. Larger flows may be best treated in multiple parallel flow operation. Higher concentrations of Hydrogen Sulphide may be best treated in lead/lag or reversible series flow. Computer aided design will specify the appropriate system and bed design, and process results, such as pressure drop, days to operate, etc.

### PHYSICAL PROPERTIES

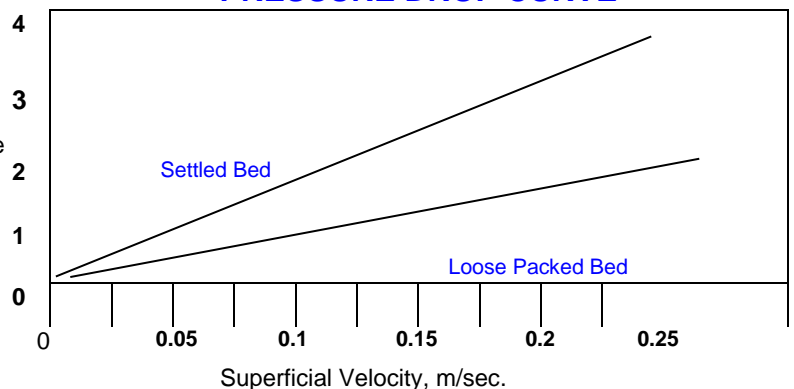
SulfaTreat-410HP can be kept for an indefinite period of time under normal storage conditions without loss of effectiveness. Product can be stored outside if protected from weather elements. No special handling or environmental inventory is required being non-hazardous and non-toxic.

### HANDLING

Shipping ..... DOT Non-Hazardous  
Apparent Density..... 1.0g/cc  
Graded Granular Size..... 4 to 16 mesh  
H<sub>2</sub>S Removal Capacity..... Up to 25% by weight  
Appearance & Odour..... Black Granular, Odourless

Pressure  
Drop,  
Pa/mm  
Bed

### PRESSURE DROP CURVE



### DISTRIBUTION & HANDLING

SulfaTreat-410HP 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-410HP system. Higgins and Hewins offer 320 ltr. odour control drums or pre-assembled drum packages that include blowers, in 11 and 23 L/sec flow capacity ideal for low flow "wet well" applications. Large systems can use custom design SulfaTreat Odour Control Units with a built-in separator/saturator section available for flows ranging from less than 1,700 to over 6,800 m<sup>3</sup>/hr per unit, depending upon specified operating conditions. These low profile units are specifically designed for low pressure drop and even distribution across the beds.



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