

HIGGINS & HEWINS

Air and Gas Purification Systems

TYPE: SULFATREAT- 2242 PLUS

AIR & GAS PURIFICATION MEDIA



GENERAL DESCRIPTION

SulfaTreat 2242 Plus safely and irreversibly removes Hydrogen Sulphide and light Mercaptan from any water saturated air or gas stream. SulfaTreat 2242 Plus 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 fully humid air/gas. SulfaTreat 2242 Plus 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 2242 Plus 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 2242 Plus.

APPLICATION

SulfaTreat 2242 Plus 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 2242 Plus 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 2242 Plus 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	H ₂ S Removal Capacity.....	Up to 40% by weight
Apparent Density.....	1.1g/cc	Appearance & Odour.....	Red/Brown Granular, Odourless
Graded Granular Size.....	4 to 10 mesh		

DISTRIBUTION & HANDLING

SulfaTreat 2242 Plus 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 2242 Plus 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 m³ /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.

Higgins and Hewins Limited

Titan Works, Stourbridge, West Midlands, DY8 4LR

Tel: 01384 397700 Fax: 01384 397701

Web site: www.handhltd.co.uk

E-mail: sales@handhltd.co.uk

