

SULFATREAT-410 HP

For low-pressure applications and gas streams containing oxygen



SULFATREAT-410 HP safely and irreversibly removes hydrogen sulfide and light mercaptan type odors from any air or gas stream. Its special characteristics allow it to treat low-pressure applications such as vent gas for odor-control purposes. In the presence of oxygen, reaction speed is many times faster, allowing for smaller equipment sizes. It is a non-corrosive, non-toxic granular material that selectively treats hydrogen sulfide 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 partially to fully humid air.*

For convenient disposal, SULFATREAT-410 HP is easy to handle and environmentally safe in both its unreacted and reacted forms.

Typical Physical Properties

Appearance and odor	Black granular, odorless
H ₂ S removal capacity	Up to 25% by weight
Apparent density	1.0 g/cc or approx. 62 lb/ft ³
Graded granular size	4 to 16 mesh

Applications

SULFATREAT-410 HP systems are extremely flexible and can treat all concentrations of hydrogen sulfide to virtually any outlet concentration desired, maintaining treatment during variations encountered in normal operation without operator adjustment. This product is also ideal for treating biogas (digester and landfill), industrial vent gas, and other non-air streams that benefit from its low pressure-drop characteristics.

The SULFATREAT-410 HP product can be used in common drum, box, or tank-type vessels. Entrained or condensed liquids and solids should be removed in a separator, knockout, or drip pot just prior to entering the vessel(s). The SULFATREAT-410 HP product is applied in fixed bed reaction vessels operated, preferably, in down-flow mode (helps prevent accumulation of condensed liquids). Bed depths can range from 18 in. (457.2 mm), with good inlet distribution and outlet collection design, up to 40 ft (12.2 m).

Systems can range from single or multiple vessels in parallel flow to lead/lag, or reversible series flow through two vessels where heavy loads of H₂S are encountered. Computer-aided design will specify the appropriate system and bed design, and the process results, such as pressure drop, days to operate, etc.



Handling

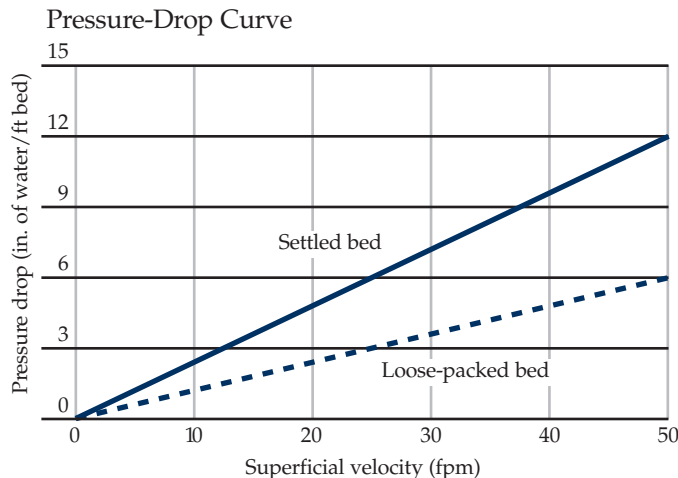
The SULFATREAT-410 HP product can be kept for an indefinite period of time under normal storage conditions without loss of effectiveness. It can be stored outside if protected from direct weather elements. No special handling or environmental inventory is required because the product is environmentally non-hazardous and non-toxic.

Distribution and Handling

The SULFATREAT-410 HP product is available in 2,000-lb (907-kg) bulk bags and 50-lb (23-kg) sacks from the main warehouse in St. Louis, Missouri, from stock locations in the U.S.A. and Canada, or from an authorized distributor.

Pressure-Drop Curve

SULFATREAT* will assist owners and contractors by specifying the appropriate SULFATREAT-410 HP system. SULFATREAT offers preassembled packages that include blowers, in 25- and 50-cfm flow capacities, ideal for low-flow "wet-well" applications. Large systems can use custom designed SULFATREAT Odor Control units available for flows ranging from less than 1,000 to more than 6,000 cfm 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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