General Description:

AxTrap 4002 is a unique patented high-capacity non-hazardous granular media. It is comprised of high porosity mixed iron-oxides tightly bound on a stable inert base. This media is useful for H₂S removal as well as lower amounts of light mercaptans/trace COS that may be present in a wide variety of gasses. This high-capacity media works dependably without oxygen; however some higher levels of oxygen can increase reaction speed and improve sulfur removal capacity.

AxTrap 4002 reliably performs in “water-saturated” gas. This media can operate if the feed gas is occasionally less than 100% R.H. for short periods of time without the need for adding water to the feed gas.

AxTrap 4002 will not break down when soaked in water and media life can be extended by brine or water washing/soaking, in place. Spent media can easily be cleaned by a variety of wet/dry methods including vacuum.

Product Features:

- High capacity sulfur removal, up to 14% by weight for anaerobic (10 lbs sulfur/ft³), and up to 28% by weight for aerobic conditions (20 lbs sulfur/ft³).
- Cost-effective reliable low level H₂S removal with starting outlet levels at non-detect and slowly rising to the desired maximum outlet concentration.
- Removes lower levels of mercaptans together with higher level H₂S.
- Effective removal of light mercaptans with very little or no conversion to disulfides like other iron-based products, with or without O₂ in the gas.
- High particle strength and low dust content.
- Spent media is easy and safe to handle by a variety of methods.
- Low and stable pressure drop, beginning to end.
- Presence of liquid water or hydrocarbons does not interfere or degrade the AxTrap media.
- Meets US and California requirements for non-hazardous disposal, without process contamination.
- Can be brine or water washed/soaked, in place, to increase sulfur removal

Product Uses:

Removal of H₂S and light mercaptans from gas streams.

Properties:

<table>
<thead>
<tr>
<th>Physical Properties (Typical)</th>
<th>Chemical Analysis</th>
</tr>
</thead>
<tbody>
<tr>
<td>Form: Random shaped orange/red/brown/black granules</td>
<td>Proprietary Mixed Iron Oxides Formed on Inert Base</td>
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<tr>
<td>Size: generally 4 x 8 Mesh</td>
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<tr>
<td>pH: 6.5 – 7.3</td>
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</tr>
<tr>
<td>Solubility in water: non</td>
<td>Flammability: non</td>
</tr>
<tr>
<td>Bulk Density: 1.1 g/ml or about 70 lbs/ft³</td>
<td></td>
</tr>
</tbody>
</table>

Recommended Temperature of Operation: 32°F to 190°F or 0°C to 90°C

Recommended Water Content of the Gas: 100% R.H. Some water or liquid hydrocarbon condensation in the media is not a problem.

Beginning Outlet Concentration at Start: Non-detect H₂S

End-of Life Outlet Concentration by Design: 0.1 ppm H₂S or greater

Shipping & Handling:

- DOT Non-Hazardous.
- Avoid breathing excessive dust, wear respiratory protection when dust is present. Do not take internally.
- Please refer to Safety Data Sheet for further information.
- AxTrap 4002 is commonly available in 2000 lb. bulk bags. Custom packaging is available in other package sizes.

TO ORDER MEDIA: Contact MV Technologies • Tel: 303.277.1625 • Email: info@mvseer.com

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