

**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 H<sub>2</sub>S 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/ft<sup>3</sup>). and up to 28% by weight for aerobic conditions (20 lbs sulfur/ft<sup>3</sup>).
- › Cost-effective reliable low level H<sub>2</sub>S 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 H<sub>2</sub>S.
- › Effective removal of light mercaptans with very little or no conversion to disulfides like other iron-based products, with or without O<sub>2</sub> 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 H<sub>2</sub>S and light mercaptans from gas streams.

**Properties:**

<b>Physical Properties (Typical)</b>		<b>Chemical Analysis</b>
<b>Form:</b>	Random shaped orange/red/brown/black granules	Proprietary Mixed Iron Oxides Formed on Inert Base
<b>Size:</b>	generally 4 x 8 Mesh	
<b>pH:</b>	6.5 – 7.3	
<b>Solubility in water:</b>	non	<b>Flammability:</b> non
<b>Bulk Density:</b>	1.1 g/ml or about 70 lbs/ft <sup>3</sup>	
<b>Recommended Temperature of Operation:</b> 32°F to 190°F or 0°C to 90°C		
<b>Recommended Water Content of the Gas:</b> 100% R.H. Some water or liquid hydrocarbon condensation in the media is not a problem.		
<b>Beginning Outlet Concentration at Start:</b> Non-detect H <sub>2</sub> S		
<b>End-of Life Outlet Concentration by Design:</b> 0.1 ppm H <sub>2</sub> S 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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