

General Description:

AxTrap 4101 is a patented high-capacity granular media for use where larger daily mass H₂S removal is required. It is comprised of concentrated high porosity mixed iron-oxides tightly bound on a stable inert base.

The media is used for selective and safe removal of up to % levels of H₂S in natural gas, CO₂ and other gasses. This high-capacity media works dependably without oxygen; however some higher levels of oxygen may improve sulfur removal capacity.

AxTrap 4101 reliably performs in “water-saturated” gas. Added water in the feed gas may be needed if the gas is more than occasionally less than 100% R.H. to achieve expected capacity and level of total sulfur removal.

AxTrap 4101 will not break down when exposed to liquids. Media life can be extended by brine or water washing/soaking, in place. Spent media can be easily removed by a variety of wet/dry methods including vacuum. No special inert gas or expensive methods are needed to remove spent product.

Product Features:

- › Higher capacity sulfur removal, up to 20% by weight for anaerobic (14 lbs sulfur per ft³) increased loading is possible where sufficient oxygen is present.
- › Cost-effective reliable low level hydrogen sulfide removal with starting outlet levels at non-detect and slowly rising to the desired maximum outlet concentration.
- › Removes some lower levels of light mercaptans together with higher level H₂S.
- › High particle strength even in the presence of liquids.
- › Low and stable pressure drop, beginning to end.
- › Spent media is easy and safe to handle by a variety of methods. Does not require inert gas or expensive methods for safe removal and handling.
- › Presence of liquid water does not interfere or degrade this AxTrap media.
- › Meets US 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 larger amounts of H₂S and some light mercaptans from gas streams.

Properties:

Physical Properties (Typical)		Chemical Analysis
Form:	Random shaped orange/red/brown/black granules	Proprietary Mixed Iron Oxides Formed on Inert Base
Size:	generally 4 x 14 Mesh	
pH:	6.5 – 7.3	
Solubility in water:	non	Flammability: non
Bulk Density:	1.2 g/ml or about 74 lbs/ft ³	
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 H ₂ S		
End-of Life Outlet Concentration by Design: 4 ppm H ₂ 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 4101** is available in 2000 lb. bulk bags. Custom packaging is available up to 2500 lb. in bulk bags.

TO ORDER MEDIA:

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

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