MV TECHNOLOGIES

TECHNICAL DATA SHEET
AxTrap™ 4011

1/2016

General Description:

AxTrap 4011 is a patent-pending high-capacity non-hazardous granular media specifically designed for use in the removal of H_2S, mercaptans, and organic sulfides from CO_2, natural gas production, and other gasses for total sulfur control. It is comprised of a high porosity mixed iron-oxide formed on a stable inert base along with an inorganic adsorption phase specific for heavier sulfur compounds.

AxTrap 4011 is used for selective removal of higher levels of H_2S, along with mercaptans and lower levels of heavier organic thiols and sulfides. This high-capacity media works without or with O_2. A minimum molar ratio, O_2 to H_2S, of 5:1 increases reaction speed and improves sulfur removal capacity.

AxTrap 4011 unique formulation allows reliable performance in "water-saturated gas" normally without added water.

Product Features :

- High capacity sulfur removal, 8 to 12% by weight for lower oxygen levels and up to 17% by weight with greater than a 5:1, O_2 to H_2S, ratio and sufficient contact time.
- Cost-effective reliable hydrogen sulfide removal with starting outlet levels at non-detect and slowly rising to the desired maximum outlet concentration.
- Forms basic sulfur and stable iron sulfides.
- Effective removal of mercaptans with very little or no conversion to heavy disulfides like other iron-based products, with or without O_2 in the gas stream.
- High particle strength and low dust content.
- Low and stable pressure drop, beginning to end.
- Presence of liquid water or hydrocarbons does not interfere.
- Meets US requirements for non-hazardous disposal, without process contamination.

Product Uses:

Removal of H_2S, mercaptans, and low levels of heavy organic sulfur from gas streams.

Properties:

Physical Properties (Typical)		Chemical Analysis
Form:	Random shaped multicolored granules	Proprietary Promoted Mixed Metal Oxides Formed on Inert Base with Inorganic Adsorption Phase
Size:	3 x 14 Mesh	
pH:	6.0 – 8.0	
Solubility in water:	non	
Flammability:	non	
Bulk Density:	1 g/ml or 68 lbs/ft^3	

Recommended Temperature of Operation: 32ºF to 180ºF or 0ºC to 80ºC.
Recommended Water Content of the Gas: 100% R.H. Some water or liquid hydrocarbon condensation in the media is not a problem.
End-of Life Outlet Concentration by Design: 1 ppm H_2S or greater, and final total sulfur on outlet depends upon type and inlet levels of reduced heavy organics sulfurs present.

Shipping & Handling

- Non-Hazardous.
- Avoid breathing excessive dust. Do not take internally.
- Please refer to Material Safety Data Sheet for further information.
- *AxTrap 4011* is normally available in 2000 lb. bulk bags. Other package sizes are available.

TO ORDER MEDIA:

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

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