TECHNICAL DATA SHEET
SolfaTara-HC

REACTIVE FIXED BED TECHNOLOGY
Hydrogen Sulfide and Other Sulfur Abatement and Control Solutions

General Description - ***SolfaTara-HC*** is a patent-pending high-capacity non-hazardous granular media. It is comprised of a high porosity mixed iron-oxide tightly bound on a stable hydroscopic inert base. The media is useful for H_2S and light mercaptan control in air and a variety of gasses. This high-capacity media works without oxygen; however a minimum molar ratio, O_2 to H_2S, of 1 or more will increase reaction speed and improve sulfur removal capacity. Its unique formulation allows reliable performance in air or gas with 75% or more relative humidity without need for added water.

Product Features

- ❑ High capacity sulfur removal, up to 14% by weight for anaerobic (10 lbs sulfur per cu.ft). and 28% by weight for aerobic conditions (20 lbs sulfur per cu.ft.)
- ❑ Cost-effective reliable low level hydrogen sulfide removal with starting outlet levels at non-detect and slowly rising to the desired maximum outlet concentration
- ❑ Forms primarily basic sulfur and some stable iron sulfides
- ❑ Does not require full water saturation for reliable performance
- ❑ High particle strength and low dust content
- ❑ Low and stable pressure drop, beginning to end
- ❑ Presence of liquid water or hydrocarbons does not interfere
- ❑ Can be returned to BakerCorp for re-processing or meets US and California requirements for disposal, without process contamination

Product Uses

- ❑ Removal of H_2S and light mercaptans from gas streams

Properties

Physical Properties (Typical)		**Chemical Analysis**
Form: Random shaped orange/brown/black granules		Proprietary Iron
Size:	3 x 9 Mesh	Oxides on inert base
pH:	6.5 – 7.3	
Solubility in water:	non	
Flammability:	non	
Bulk Density:	1.1 g/ml or 68 lbs per cubic foot	
Surface Area:	95-120 m^2/gr	

Pressure Drop: psi = 0.015*ft/min(EB)*feet of media
Inches w.c. = .415*ft/min(EB)*feet of media

Recommended Temperature of Operation: 32ºF to 250ºF, 0ºC to 120ºC
Recommended Water Content of the Gas: 75% to 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
Estimated Contact Time Required for Minimum Design – Single Vessel:
Without Oxygen - Minutes = 1.5 x (30 / ºC) x log (average or peak inlet ppm / maximum outlet ppm desired)
With 5:1 or more O2:H2S Ratio – Minutes = 0.075 x (30 / ºC) x log (average or peak inlet ppm / maximum outlet ppm desired)

Shipping & Handling

- ❑ Non-hazardous
- ❑ Avoid breathing excessive dust. Do not take internally.
- ❑ Please refer to Material Safety Data Sheet for further information.
- ❑ ***SolfaTara-HC*** is available in 250 lb fiber drums, and 1,000, 2,000 and 2,200 lb. bulk bags.

For product information and free design of a *SolfaTara-HC* treating system contact us at:

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