OCP
GRANULAR H_2S SCAVANGER

TECHNICAL DATA SHEET *OCP 1125*

General Description - ***OCP 1125*** 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 used selective removal of H_2S and light mercaptans in natural gas and other 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. This unique formulation allows reliable performance in less than "water-saturated gas" without need for added water.

Product Features

- ❑ High capacity sulfur removal, up to 14% by weight for anaerobic (11 lbs sulfur per cu.ft)., up to 28% by weight with ≥ 5:1 - O2:H2S ratio
- ❑ 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 basic sulfur and stable iron sulfides
- ❑ Can be used in any "iron sponge" or solid sweetening media type tower
- ❑ High particle strength and low dust content
- ❑ Low and stable pressure drop, beginning to end
- ❑ Presence of liquid water or hydrocarbons does not interfere

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 Formed Iron
Size: 4 x 14 Mesh	Oxides on inert base
pH: 6.5 – 7.3	

Solubility in water: non
Flammability: non
Bulk Density: 1.1 g/ml or 72 lbs per cubic foot
Surface Area: 100-135 m^2/gr
Pressure Drop: psi = 0.03*ft/min(EB)*feet of media
Recommended Temperature of Operation: 32ºF to 150ºF, 0ºC to 65ºC
Recommended Water Content of the Gas: 85% 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 = 2.96 x (30/ ºC) x log (average or peak inlet ppm / maximum outlet ppm desired)
With 5:1 or more O2:H2S Ratio – Minutes = 1.35 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.
- ❑ ***OCP 1125*** is available in 1000, 2000 and 2500 lb. bulk bags.

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