SULFUSORB® 10

Impregnated Granular Activated Carbon

Applications

Odor Control

Environmental Air

Gas Processing

Industrial Air Treatment

Description

Sulfusorb 10 is manufactured via high temperature steam activation at rigidly controlled conditions then impregnated with copper oxide (CuO) specifically designed for removal of hydrogen sulfide and low molecular weight organic sulfur compounds from gas streams.

Hydrogen sulfide is first physically adsorbed into the pores of the carbon where it comes into contact with the CuO, resulting in a chemical reaction which increases the adsorption capacity over non-impregnated activated carbons.

SULFUSORB 10 is available in two mesh sizes to suit specific design and pressure drop requirements.

Features / Benefits

- Produced from a reagglomerated blend of pulverized bituminous coals resulting in a consistent high quality product with a pore structure that is optimal for the adsorption of a broad range of contaminants and concentrations.
- Higher density results in high volume activity and economical vessel design.
- High mechanical strength and uniform transport pore distribution resulting in excellent reactivation performance.
- Increased adsorption capacity due to copper oxide impregnation that normal carbons do not have.
- No residual activation chemicals to interfere with operation.

Specifications	SULFUSORB® 10	
Copper Oxide, by weight	10.0% (min)	
Moisture, by weight, as packed	2.0% (max)	
Screen Size by Weight, U.S Sieve Series		
	4x10	12x30
4 US mesh [4.75 mm], wt%	5.0% (max)	—
< 10 US mesh [2.00 mm] (PAN), wt%	5.0% (max)	—
12 US mesh [1.70 mm], wt%	—	5.0% (max)
< 30 US mesh [0.600 mm] (PAN), wt%	—	5.0% (max)

Design Considerations

The design of an activated carbon adsorption is dependent on the adsorbate type, influent concentration, temperature, flow rate, performance objective and other factors. Calgon Carbon can help evaluate the suitability of activated carbon to satisfy your specific needs and assist in the design of a system. Besides carbon Calgon Carbon offers adsorption equipment, vessels and other services to meet treatment

Regeneration

SULFUSORB 10 may be in-situ regenerated via reversing the chemical reaction by applying energy in the form of heat, and oxygen to convert the CuS back to CuO. Since regeneration procedures for desulfurizing activated carbons are unique, it is recommended that Calgon Carbon be contacted for additional information on the regeneration procedures for the specific application.

Safety Message

Wet activated carbon can deplete oxygen from air in enclosed spaces. If use in an enclosed space is required, procedures for work in an oxygen deficient environment should be followed.

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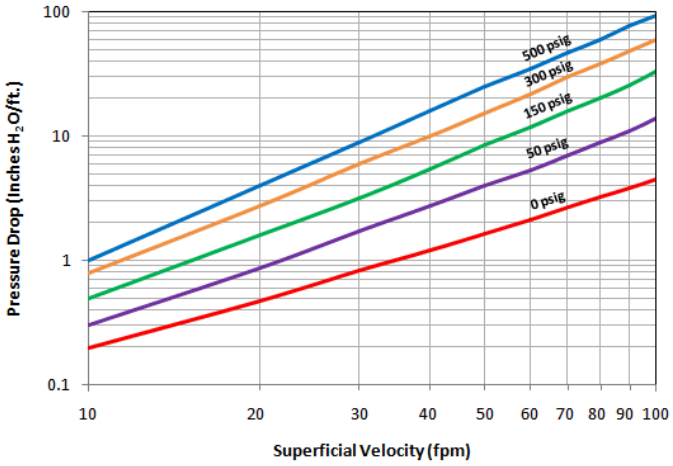
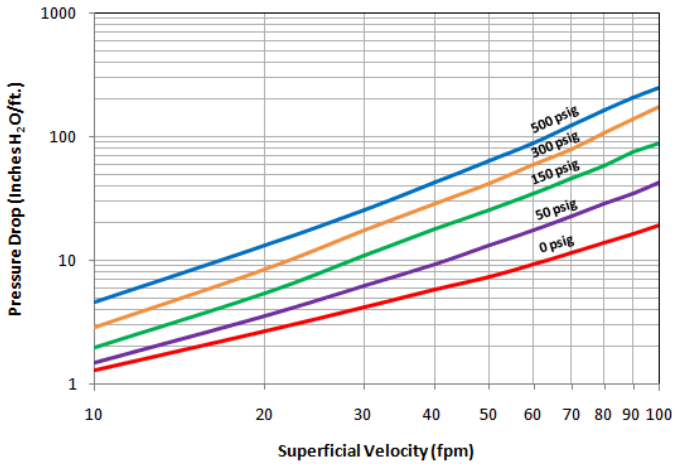
Pressure Drop

Natural Gas at 70°F 4x10 mesh



Pressure Drop

Natural Gas at 70°F 12x30 mesh



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