

SULFUSORB® 8

Impregnated Granular Activated Carbon



CALGON CARBON CORPORATION

Description

Calgon Carbon SULFUSORB® 8 is a copper oxide (CuO) impregnated product specifically designed to remove hydrogen sulfide, and low molecular weight organic sulfur compounds from gas streams. Hydrogen sulfide is first physically adsorbed into the pores of the activated carbon. It then comes in contact with the CuO, resulting in a chemical reaction which increases the adsorption capacity over non-impregnated activated carbons.

SULFUSORB®8 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 desulfurization activated carbons are unique, it is recommended that Calgon Carbon be contacted for additional information on the regeneration procedures for the specific application. SULFUSORB® 8 is available in two mesh sizes to suit specific design and pressure drop requirements.

Applications

Some of the typical applications for SULFUSORB® 8 activated carbon include:

- Odor Control
- Product Purification
- Natural Gas Purification
- Corrosion Control
- Catalyst Guard Bed

Design Considerations

The design of an activated carbon adsorption system 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 the specific needs and assist in the design of an adsorption system. In addition to the supply of activated carbon, Calgon Carbon offers adsorption systems and other services to meet particular treatment objectives. For additional information on adsorption capacity, please contact the Calgon Carbon Technical Sales Representative for your area or call 1-800-422-7266 x6933 to speak with an Inside Sales Representative.

Specifications

CuO on Carbon by weight	8.0% (min)
Moisture, as packed by weight	2.0% (max)
Screen Size by weight, U.S. Sieve Series 4 x 10	
On 4 mesh	5.0 (max)
Through 10 mesh	5.0 (max)
Screen Size by weight, U.S. Sieve Series 12 x 30	
On 12 mesh	5.0 (max)
Through 30 mesh	5.0 (max)

Features

<i>Raw Materials</i>
Metallurgical grade bituminous coal
Low ash content
<i>Particle Construction</i>
Coal is pulverized and reagglomerated with suitable binder
Granular shape
<i>Activation Process</i>
Thermal activation with reducing atmosphere (steam)
<i>Impregnation</i>
CuO

Benefits

<i>Raw Materials</i>
Produces a strongly adsorbing pore structure for a broad range of contaminants and concentration
Higher density results in high volume activity and economical adsorber design
Higher purity activated carbon, less ash leaves more carbon structure for adsorption
<i>Particle Construction</i>
Creates optimal transport paths for faster adsorption/desorption, especially important for catalyst and chemical conversion processes
Low void fraction; more efficient contact with gas stream
<i>Activation Process</i>
No residual activation chemicals to interfere with application
<i>Impregnation</i>
Increases the adsorption capacity of the activated carbon compared to non-impregnated products

SULFUSORB® 8

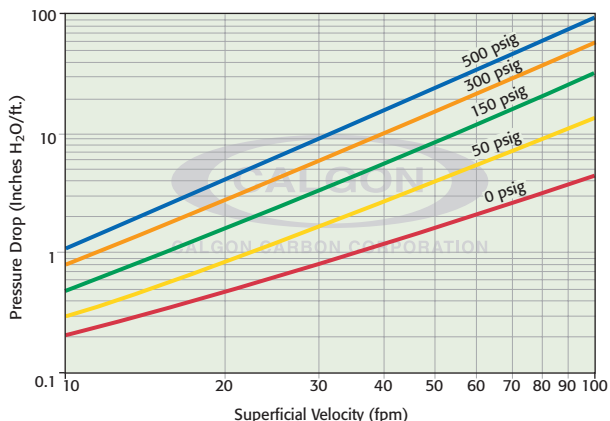
Impregnated Granular Activated Carbon



CALGON CARBON CORPORATION

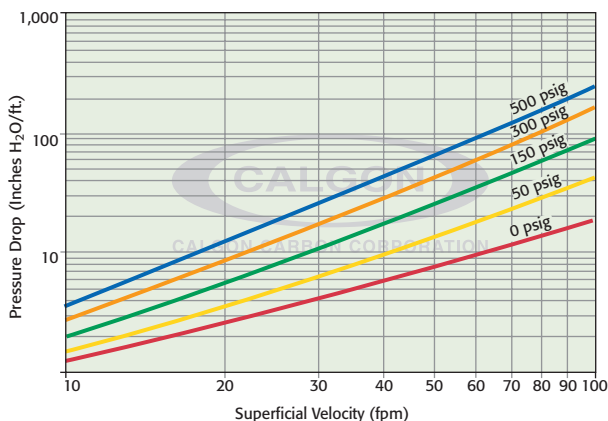
Pressure Drop

Natural Gas at 70°F 4x10 mesh



Pressure Drop

Natural Gas at 70°F 12x30 mesh



Safety Message

Wet activated carbon preferentially removes oxygen from air. In closed or partially closed containers and vessels, oxygen depletion may reach hazardous levels. If workers are to enter a vessel containing carbon, appropriate sampling and work procedures for potentially low oxygen spaces should be followed, including all applicable Federal and State requirements.

Packaging

230 lb. fiber drums

Limitations of Liability

The Supplier's liability and the Purchaser's exclusive remedy for any cause of action arising out of this transaction, including, but not limited to, breach of warranty, negligence and/or indemnification, is expressly limited to a maximum of the purchase price of spare parts or equipment sold hereunder. All claims of whatsoever nature shall be deemed waived unless made in writing within forty-five (45) days of the occurrence giving rise to the claim. In no event shall the Supplier, for any reason or pursuant to any provision of the warranty, be liable for incidental or consequential damages or damages in excess of the purchase price, nor shall the Supplier be liable for loss of profits or fines imposed by governmental agencies.



CALGON CARBON CORPORATION

Calgon Carbon Corporation
P.O. Box 717
Pittsburgh, PA USA 15230-0717
1-800-422-7266
Tel: 412-787-6700
Fx: 412-787-6713

Making Water and Air Safer and Cleaner

Chemviron Carbon
European Operations of
Calgon Carbon Corporation
Zoning Industriel C de Feluy
B-7181 Feluy, Belgium
Tel: + 32 (0) 64 51 18 11
Fx: + 32 (0) 64 54 15 91

Calgon Carbon Asia
65 Chulia Street
#37-03 OCBC Centre
Singapore 049513
Tel: +65 6 221 3500
Fx: +65 6 221 3554

Your local representative

