



# ALPHACHEM®

GAS PHASE FILTRATION

by Greenkeeper

FILTRATION MEDIA

**Aluminas, Zeolites,  
Activated Carbons,  
Chemical  
Impregnations**



**ALPHACARB BGS**

### Uses / Applications

**Alphacarb BGS** is a 4 mm pelletized carbon-based filtration media.

It is a uniquely formulated chemical media that achieves high hydrogen sulphide (H<sub>2</sub>S) removal capacity. It is also recommended for the removal of mercaptans, Sulphur compounds and other malodorous compounds.

Alphacarb BGS has improved reaction kinetics, allowing for a very localized reaction zone (Mass Transfer Zone), which helps to better utilize the full capacity of the media. Under optimal operating conditions, H<sub>2</sub>S removal capacity values up to 70% w/w can be achieved.

Widely used in biogas desulphurization, it achieves its maximum performance when the H<sub>2</sub>S-O<sub>2</sub> ratio is around 1:5. Other parameters such as temperature, relative humidity, pressure or residence time, among others, have an influence on its overall performance.

### Target Pollutants

- Hydrogen Sulphide (H<sub>2</sub>S)
- Mercaptans
- Organic Sulphides

### Packaging

25 kg bags and 500 kg Big Bags

### Mechanism

The porous structure, as well as the high specific surface area of activated carbon allows a large amount of pollutant gases to reach the pores, where the acid-base reaction takes place. The process follows the sequence Adsorption - Absorption - Catalytic Chemisorption. In this way the pollutants are irreversibly eliminated and transformed into harmless salts that remain in the substrate.

### Specifications

- Surface Area: 950 m<sup>2</sup>/gr
- Iodine Ner min: 1100
- Shape: Pellets 3 or 4 mm
- Density: 600 kg/m<sup>3</sup> ± 40
- Humidity: 17% ± 2
- Hardness: 2 - 4 kg/cm<sup>2</sup>
- Capacity H<sub>2</sub>S: up to 70% w/w

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### ALPHACHEM

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