



# ALPHACHEM®

GAS PHASE FILTRATION

*by Greenkeeper*

CHEMICAL FILTERING MEDIA

IV-01

**Aluminas,  
Zeolites,  
Activated carbon,  
Chemical**



**ALPHACHEM 8P MAX**

#### Uses / Applications

Alphachem 8P MAX is a potassium permanganate impregnated zeolite chemical adsorbent, specially designed for general removal of oxidizable gases such as Hydrogen Sulphide (H<sub>2</sub>S), mercaptans, light aldehydes and others.

Used for removal of corrosive gases in the petrochemical, iron and steel, paper and cellulose industries, as well as in wastewater treatment plants. Also used in electronic components manufacturing plants, or in data centers, thus improving the efficiency of the processes. Due to its capacity to oxidize light volatile organic compounds, it is used to eliminate formaldehyde, ethylene and other compounds in carving and morgue rooms, in in-vitro fertilization centers, and in storage and transport of fruits and vegetables.

#### Target pollutants

- Hydrogen sulphide (H<sub>2</sub>S)
- Mercaptans (R-SH)
- Sulphur dioxide (SO<sub>2</sub>)
- Nitrogen oxides (NO<sub>x</sub>)
- Alcohols, Aldehydes and light VOCs (formaldehyde, etileno...)

#### Physical properties

- Shape: Pellets
- Size: 2,4 – 5,7 mm
- Density: 840 ± 5% kg/m<sup>3</sup>
- Humidity: aprox. 15
- Capacity: 17% H<sub>2</sub>S by weight

#### Packaging

BigBags of 500 Kg; 1ft<sup>3</sup> with 22,5 kg Boxes; Modules Vpack\_M12 or M18

#### Mechanism

The porous structure as well as the high specific surface area of the zeolite substrate, makes that a large quantities of pollutant gases reach the pores, where the acid-base and RedOx reaction takes place. In this way the pollutants are irreversibly removed and transformed into harmless salts that remain on the substrate, through a sequence of adsorption, absorption and chemical reaction.

#### ALPHACHEM

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