

# BIOFerm SulfXpel Media

## Technical Information



### PRODUCT DESCRIPTION

BIOFerm’s SulfXpel activated carbon media is produced from selected low-ash mineral coal by steam activation, and infused with potassium iodide. The infusion process employed by BIOFerm results in a homogeneous distribution of potassium iodide on the surface of the activated carbon, and therefore in a product with high catalytic activity. In addition, this activated carbon has a high pore volume. The combination of these properties leads to a product which is especially suited for the oxidation of hydrogen sulfide. High degrees of loading can be achieved with this activated carbon, usually more than 80%. Besides the high loading capacity, clean gas values <1 mg H<sub>2</sub>S/m<sup>3</sup> can be reached. Catalysis continues to be effective without restriction even when co-adsorption of gases, such as hydrocarbons, takes place.

### PRODUCT APPLICATION

SulfXpel media is used for the desulphurization of biogas, sewer, and landfill gases.

### SPECIFIC CHARACTERISTICS

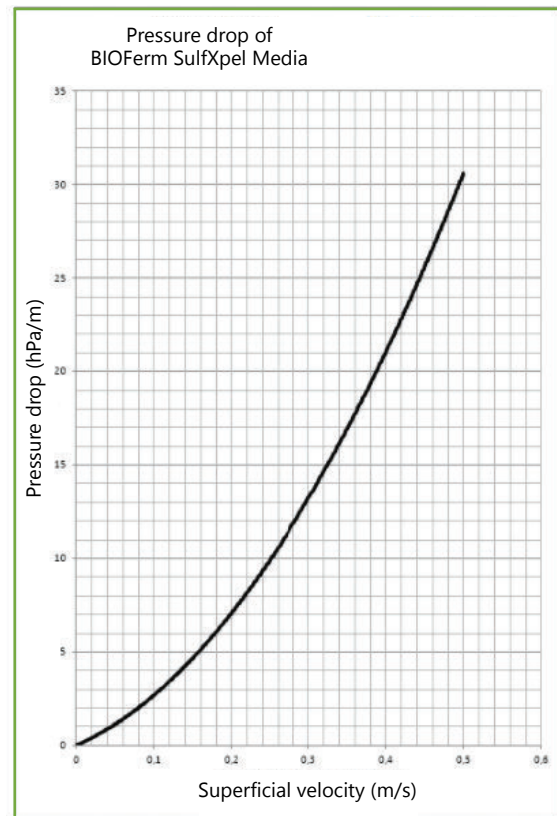
SulfXpel activated carbon media offers the following advantages:

- High adsorption capacity, sulfur loading >80%
- Excellent catalytic properties
- Superb clean gas values
- High mechanical stability
- Low pressure drop
- Consistently high product quality guaranteed



### TECHNICAL DESCRIPTION

SPECIFICATIONS	SulfXpel 40	SulfXpel 80
Sulfur Loading	>40%	>80%
Apparent density (g/l)	500 +/- 30	410+/-30
Moisture (as packed)	max 15%	
Potassium iodide content	min 1.5%	
Benzene isotherm		
p/p <sub>s</sub> =0.9	min. 43%	
p/p <sub>s</sub> =0.1	min. 38%	
TYPICAL PROPERTIES	SulfXpel 40	SulfXpel 80
BET-surface (m <sup>2</sup> /g)	850	1100
Pore Volume (ml/g)	1.1	
Ignition temperature (C)	380	
Hardness number	98%	97%
Ash content	10%	
Particle diameter (mm)	4	



# BIOFerm SiloXpel Media

## Technical Information



### PRODUCT DESCRIPTION

BIOFerm SiloXpel Media is an extruded activated carbon, produced from mineral coal by steam activation. The uniform pore structure and large internal surface achieved through steam activation makes this a very versatile product; it is mainly used in facilities for volatile organic compound removal. A high working capacity and low pressure loss provide for economically attractive product properties.

### PRODUCT APPLICATION

SiloXpel activated carbon media is mainly used for the removal of VOCs and siloxanes, like those found in landfill gas. SiloXpel can also be used for the treatment of exhaust air, especially if higher-boiling compounds have to be eliminated.

### SPECIFIC CHARACTERISTICS

SiloXpel activated carbon media offers the following advantages:

- High working capacity
- Versatile
- Superb clean gas values
- High mechanical stability
- Low pressure drop
- Consistently high product quality guaranteed



### TECHNICAL DESCRIPTION

SPECIFICATIONS	SiloXpel	SiloXpel 2.0
Apparent density (g/l)	410+/-30	490+/-30
Moisture (as packed)	max 5%	max 8%
CTC-number	min 80%	min 50%
Benzene isotherm		
p/p <sub>s</sub> =0.9		min. 45%
p/p <sub>s</sub> =0.1		min. 38%

p/p<sub>s</sub> = relative saturation concentration  
cs at 20 C = 320 g/m<sup>2</sup>

TYPICAL PROPERTIES	SiloXpel	SiloXpel 2.0
BET-surface (m <sup>2</sup> /g)	1200	850
Particle diameter (mm)		4
Ignition temperature (C)		400
Hardness number		97%
Ash content		10%

