BIOFerm D-SULF 80

Technical Information

PRODUCT DESCRIPTION

BIOFerm's D-SULF 80 activated carbon is produced from selected low-ash mineral coal by steam activation, and impregnation with potassium iodide. The impregnation 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 H2S/m3 can be reached. Catalysis continues to be effective without restriction even when co-adsorption of gases, such as hydrocarbons, takes place.

PRODUCT APPLICATION

D-SULF 80 is used for the desulphurization of biogas, sewer, and landfill gases.

SPECIFIC CHARACTERISTICS

D-SULF 80 activated carbon 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

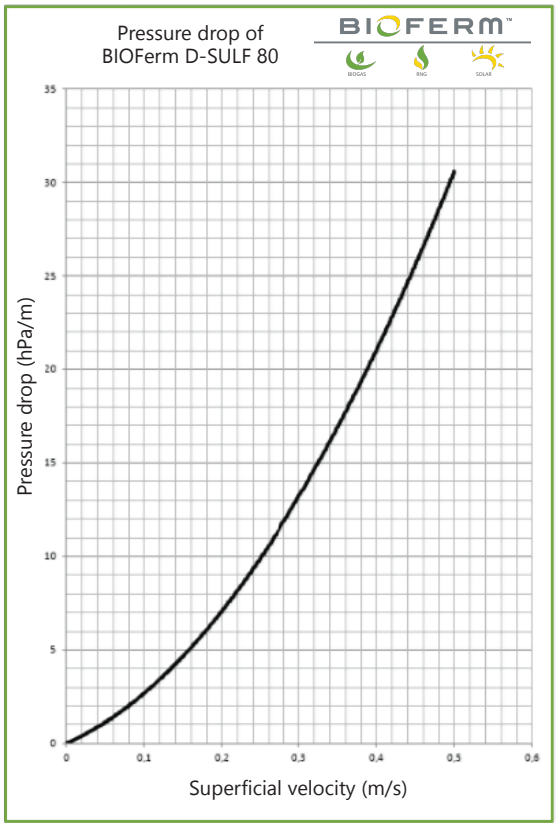
TECHNICAL DESCRIPTION

SPECIFICATIONS	
Apparent density	410±30 g/l
Moisture (as packed)	max 15%
Potassium iodide content	min 1.5%
Benzene isotherm	
p/p_s=0.9	min. 43%
p/p_s=0.1	min. 38%

p/p_s= relative saturation concentration c_s at 20 C = 320 g/m^2

TYPICAL PROPERTIES	
BET-surface	1100 m^2/g
Pore Volume	1.1 ml/g
Ignition temperature	380 C
Hardness number	97%
Ash content	10%
Particle diameter	approx. 4mm

Methods of analysis are available upon request



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