



GAS FILTER AFC-25 Type: B2



CERTIFICATION: EN 14387+A1

The filter is specifically designed for highly comfortable usage due to extremely low breathing resistance and low weight. Filters are used in chemical, pharmaceutical, oil and gas industry, agriculture and water treatment plants. The filters are designed for use with full face masks and PAPR.

Gas filters contain carbon bed with special impregnation for the removal of toxic gases and vapours.

Filter components are made of hard plastic. It provides a very robust product, which is extremely durable against shock and impact damage in operational use.

The canister body is black in colour.

TECHNICAL DATA

Diameter	110 mm \pm 2%
Height incl. connection thread	78 mm
Weight	260 g \pm 5%
Storage time (factory sealed)	5 years

BREATHING RESISTANCE in Pa

@ 30l/min. flow rate		@ 95l/min. flow rate	
EN ¹	B2	EN ¹	B2
140	<80	560	< 400

STORAGE AND MAINTENANCE

The filters are sealed in plastic bags by the manufacturer. Store the filters unopened in a clean place at even temperature, most appropriate at -5 to +30°C and relative humidity below 80%. Sealed filters tolerate also conditions of -40 to +60°C and RH below 95%. The storage period (month and year) is marked on the filter label. Do not try to regenerate the filters. Never clean the filters with compressed air nor compressed water.



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APPLICATION

The filter provides protection inorganic and acid gases, e.g. chlorine, fluorine, hydrogen fluoride, sulphur oxides, hydrogen cyanide, hydrogen sulphide, phosphine, cyanogen chloride, nitrogen dioxide, ozone etc.

ORDER CODE

connection thread acc. to EN 148-1 / STANAG 4155 (40x1/7")	1072 25
connection thread acc. to GOST 8762-75 (40x4 mm)	2072 25

TYPE AND CLASS

B2	Inorganic gasses and vapours			
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LIFE TIME

Breakthrough time of a filter is tested according to EN 14387+A1 at humidity 70% and flow rate 30 l/min., which is equivalent to the volume of air per minute used by an average person carrying out medium heavy work. The approximate life time (usage time) of a filter may be, under normal conditions, calculated by comparing the concentration at the workplace and the minimum Dynamic Adsorption Capacity (DAC) for the filter.

$$T = \frac{\text{DAC} \times 1000}{\text{AF} \times C}$$

T	Approximate usage time in min.
DAC	Dynamic Adsorption Capacity in gm (see table)
AF	Airflow (air consumption) in l/min.
C	Concentration of toxic gas in mg/l

TESTING GAS	CONCENTRATION OF TESTING GAS (ppm)	MINIMUM BREAKTHROUGH TIME in min.	DAC in gm
B2 Chlorine Cl ₂	5000	30	11,250
Hydrogen Sulphide H ₂ S	5000	50	10,875
Hydrogen Cyanide HCN	5000	30	4,200

Operation

The filter can be used with full face mask or half mask. The filter can be used in temperatures from -40°C to +70°C.

DISPOSAL

After use, the filters are considered hazardous waste. Make sure that they are disposed according to the filtered substance/s (gases or particles) in accordance with the current waste treatment regulations. If the product is to be disposed, it should be dismantled from the respirator and disposed as solid waste. Please see local authority regulations for disposal advice and locations.