

INSTRUCTIONS FOR USE OF-90S NBC COMBINATION FILTERS

A2B1E1P3

GENERAL INFORMATION

The filter complies with requirements	EN 14387:2021 Respiratory protective devices. Gas filter(s) and combined filter(s). Requirements, testing,	
of the standards	EU 2016/425	
and relugations:	Regulation of the European Parliament and of the Council on personal protective equipment.	

MARKING

BASIC FILTER MARKING:

FILTER TYPE	CLASS	COLOUR MARKING	MAIN USE AGAINST
А	2	Brown	organic gases and vapours of organic substances with a boiling point > 65 $^\circ$ C
В	1	Grey	inorganic gases and vapours
E	1		sulphur dioxide and other acid gases and vapours
Р	3	White	solid and liquid particles and aerosols, dust, bacteria and viruses

MEANING OF PICTOGRAMS:



USE

The term "Combination filter" means that it is an anti-gas filter that also contains a particulate filter.

THE OF-90S NBC COMBINATION FILTERS

type A2B1E1P3 in combination with a suitable chemical protective mask, the OF-90S NBC filters form a perfect protection of the individual against chemicals listed in the filter label, especially against solvents, cyclohexane, hydrogen cyanide, hydrogen sulfide, chlorine, hydrogen chloride and the like. Other chemical substances and their compounds are listed on the website of SIGMA Výzkumný a vývojový ústav, s.r.o. (Research and development institute).

The particulate filter part of the combination filter removes harmful solid and liquid particles, biologically solid and liquid aerosols, radioactive aerosols, dusts, bacteria and viruses from the passing air.

ATTENTION!

The filter must not be used:

- against carbon monoxide (CO), carbon dioxide (CO₂), nitric oxide (NO) and nitrous oxide (N₂O)
- in an explosive atmosphere,
- in an environment with an oxygen volume (0,) less than 17%

The anti-gas part of the filter complies with class 1 and 2 according to EN 14387 - concentration of test gas (pollutants) up to 0,1; respectively 0.5% of volume in air.



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ATTENTION!

The filter must not be used at higher concentrations of pollutants.

The particulate part of the filter complies with class 3 according to EN 143

ATTENTION!

The real time of use of the filter cannot be determined in advance due to a number of factors that affect it. These include, in particular, the type and concentration of pollutants, humidity, temperature, flow and pulmonary ventilation of the user (working intensity).

PRINCIPLES FOR USING THE FILTER

- 1. The user should know the type of pollutants and their concentration which the filter intends to protect against.
- 2. Visually inspect the filter before using it. The filter must not be mechanically damaged.
- 3. Before opening the protective cover of the filter, check that the thread marking corresponds to the thread on the mask to which it is to be attached.
- 4. After opening the protective cover and before using the filter, remove the thread cover and the inlet to the filter.
- 5. Screw the filter into the mask and, after fitting it, check the tightness of the threaded connection by clogging the filter inlet with your hands. When inhaling, the mask must not be sucked in.
- 6. The filter can be used in the temperature range from 30 $^{\circ}$ C to + 70 $^{\circ}$ C.

ATTENTION!

If the user detects an increase in respiratory resistance during use, the filter must be replaced.

If the user smells a change in air quality, the filter must be replaced immediately.

The filter against odorless gases must always be replaced after each use.

MAINTENANCE AND REUSE OF THE FILTER

If the filter is used only against particles, the filter can be used repeatedly. In this case, close the filter with caps after use to prevent polluting or contamination of the surroundings. Thoroughly clean the filter or disinfect the surface of the filter, put it in its original packaging and store it in a safe place.

STORAGE

The filter must be stored under the prescribed conditions at a temperature from -10 °C to + 50 °C and a relative humidity of 0-95 % RH. The manufacturer guarantees the full functional performance of the filter in undamaged packaging and in compliance with the storage conditions until the date stated on the filter label.

ATTENTION!

Improper storage and/or broken protective packaging may reduce the protective capacity or cause irreversible damage to the filter.

DISCARTION

When the weight of the filter (without caps - the both caps weight 10g) is exceeded 270g, the filter cannot be used and must be disposed in a manner as environmentally friendly.

DISPOSAL

Waste generated before and after the use of protective filters or after the end of product life must be disposed of in a manner as environmentally friendly as possible, recycled to the largest possible extent and disposal must be in accordance with the requirements of the legislation - EN ISO 14001:2016 Environmental management or legislation and the legislation of the user country.

CE The EU certificate of type examination No. 1024/E-083/2022 was issued by Výzkumný ústav bezpečnosti práce (Research Institute of Occupational Safety), vvi, Jeruzalémská 1283/9, 110 00 Prague 1. Declaration of conformity at www.sigma-vvu.cz.

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In case of any ambiguities or questions contact the filter manufacturer or supplier.

www.sigmagroup.cz

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