



OM-90 Protective Mask

Application of the mask

The OM-90 mask is a new type of military mask. Together with an appropriate filter or breathing apparatus it protects user's face, eyes and breathing organs against **chemical, biological, radiological and nuclear (CBRN) agents** in form of gases, vapours and solid or liquid aerosols.

The mask was designed and developed in co-operation with the Czech Army specialists.

The mask fully meets requirements of the EN 136 (Class III) and EN 148-1 standards.

The OM-90 mask with the OF-90 filter was also successfully tested according to the NATO Triptych in the TNO laboratories in Holland.

The set of OM-90 is a subject of NATO cataloguing.

The mask is available in 3 sizes. A canister can be mounted either on the left or right side of the facepiece to make it easier to aim a gun for both right-handed and left-handed persons. Material of the facepiece (bromo-butyl rubber) provides extraordinary protection against all known chemical warfare agents, biological, nuclear and radiological agents, as well as against industrial chemical agents.

The mask enables a long-term use in any weather conditions. The inner mask reduces content of carbon dioxide in the mask and regulates air-flow of the inhaled air so that it protects the lenses from misting.

The inhalation chambers for filter connection are fitted with the thread Rd 40x1/7" in accordance with EN 148-1 standard (NATO standard).

Masks are manufactured under permanent supervision of the representative of the Czech Ministry of Defence.

Key benefits of the OM-90 mask

- Outstanding resistance against penetration of all kinds of chemical, biological, radiological and nuclear agents, industrial toxic gases, riot control gases etc.
- High user comfort
- Easy donning and doffing
- Low breathing resistances
- Compatibility with optical devices
- Application of corrective spectacles
- Easy decontamination and disinfection
- Easy drinking in a contaminated area
- Sweat drainage through the exhalation chamber
- Compatibility with helmets and breathing apparatuses
- High quality speech diaphragm enables easy communication with or without using communication devices.



The lenses of the OM-90 mask were computer designed to ensure compatibility with all kinds of optical devices while providing a sufficient field of vision.



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The mask can be delivered as a set of the OM-90 facepiece, OF-90 NBC protective filter, disposable protective suit and a carrying bag.

NATO Stock Number (NSN) of the OM-90 set: 42 40-16-000-82 32.



Technical specifications

Average weight	500 g
Colour	black
Number of sizes	3
Effective field of vision	73 %
Binocular field of vision	34 %
Filter connection thread	Rd 40x1/7"
Resistance against penetration of NBC agents	> 48 hours
Breathing resistance:	
- inhalation resistance at 30 l/min	max. 20 Pa
- inhalation resistance at 95 l/min	max. 50 Pa
- exhalation resistance at 30 l/min.	max. 60 Pa
Minimum intelligibility:	95%
Intake of liquid	230 ml/min
Functional reliability	-30°C up to +70°C



The OM-90 mask is equipped with a drinking device which enables safe drinking from a special plastic bottle (PE, 0,8 l) in a contaminated area.



The drinking system is also compatible with CamelBak hydration systems.



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Materials

Facepiece	bromobutyl rubber, non-irritating
Inner mask, other rubber components	natural rubber, non-irritating
Visors	silicate glass
Plastic components	polyoximethylen, polyamide
Speech diaphragm	PET
Head harness	five-point, rubber-textile

Warranty

The manufacturer provides **5 years warranty** for the OM-90 mask, providing the storage conditions are observed.

The manufacturer provides 24-months warranty for mask exploitation. The warranty period for exploitation starts with the first opening of the original package and is provided only when observing conditions stated in the Directions for use of the protective mask.

Mask service life

Storage and service life of the OM-90 protective mask is **20 years** from the date of production, providing that the storage conditions are observed.

The manufacturer recommends to carry out inspection of inhalation and exhalation valves and leak-tightness test of the mask every 5 years during storage.

References

-  Ministry of Defence of the Czech Republic (long-term contract)
-  Ministry of Defence of Latvia (2003)
-  Ministry of Defence of Libya (2006)



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