USE OF THE DRINKING SYSTEM

The drinking system of the CM-6M® protective mask can only be used with a bottle equipped with a special valve or with CamelBak® hydration systems. Connect the suction valve to the bottle or a CamelBak® hydration system after removing its cover.

Turn the bottle upside down and turn the drinking system valve 90° on the facepiece and start to drink. Drinking system capacity is approximately 200 ml per minute. When finished drinking, turn the drinking system valve back. Disconnect the bottle, cover the suction valve and fix it on the facepiece.

MAINTENANCE

Dry the inner side of the mask with a clean piece of cloth after every use. The mask must be dry before storing it in the carrying bag. Allow the mask to dry without exposing it to direct sunshine or radiant heat. If the mask was previously worn by another user, disinfection with a 2% chloramine solution is recommended. Allow it to air dry before further use.

After extended use, wash the mask with water and soap, bicarbonate or a detergent solution. Rinse with clean water and allow it to air dry.

All maintenance and cleaning must be performed without a filter attached. Do not use any organic solvents (petrol, toluene, etc.) on the mask. Check all valve chamber parts and clean as needed after use in a dusty environment. Removable parts can be exchanged according to the following instructions.

REPLACEMENT OF THE EXHALATION VALVE

1. Turn the exhalation port cover 90° and remove it.
2. Pull out the exhalation valve to remove it.
3. Clean the valve and exhalation chamber with warm water and dry with a piece of clean cloth. Take special care to clean the valve and valve contact line.
4. Insert the spindle of the cleaned or new valve into the exhalation chamber aperture and gently press it into the correct position.
5. Replace the exhalation port cover.
6. Perform a mask tightness test.



1 – exhalation chamber cover
2 – exhalation valve

STORAGE

CM-6M® masks must be stored in a dark, cool and dust-free place free from sudden temperature fluctuations. The storage room should be ventilated regularly. Temperatures may vary between 10°C and 25°C with relative humidity up to 65%. Do not expose stored masks to radiant heat or sunshine. Fuels, solvents, lubricants and other inflammable substances, including chemicals, must not be stored with masks. Moreover, do not store with any electrical machines or appliances that produce sparks or discharges during operation (ozone creation). Avoid deformation of the rubber facepiece and internal mask during storage.

WARRANTY

The manufacturer provides a 5-year warranty for masks in their original sealed package, provided that the recommended storage conditions are followed.

The manufacturer also provides a 24-month warranty for mask use. The use warranty period starts when the original package is first opened. Failure to follow these Directions for Use will make this warranty null and void.

Storage life of masks in their original package is 20 years.

MIRA Safety®
7301 N FM 620 Rd, STE 155 #259, Austin, TX 78726
E-mail: cs@mirasafety.com | www.mirasafety.com

CM-6M® PROTECTIVE MASK
DIRECTIONS FOR USE

The **CM-6M®** protective mask, when connected to a suitable filter or breathing apparatus, protects the user's eyes, face and lungs from the effects of toxic industrial chemicals (TIC) and chemical warfare agents (CWA) including gases, vapors, aerosols, radioactive dust, bacteria and viruses. Functional reliability of the protective mask is guaranteed within a temperature range of –30°C to +70°C.

The protective mask can be used with a filter if the ambient atmosphere contains at least 17% oxygen, otherwise a breathing apparatus must be used. The CM-6M® mask is appropriate for industry, agriculture, police and rescue squads, civil defense, fire departments, special forces, etc. The mask is marked with a “CE” symbol and is manufactured and marked in accordance with the EN 136:1998 standard, class III.



1. head harness
2. inner mask
3. panoramic visor
4. exhalation port cover
5. speech diaphragm
6. inhalation port (left and right)
7. facepiece
8. filter

TECHNICAL SPECIFICATION

The facepiece is made of inert, hypoallergenic, bio-compatible bromine-butyl rubber with high-level resistance to TIC/CWA penetration. The inner mask is made from a special hypoallergenic compound that ensures excellent tightness and avoids exhaled air contact with the visor to prevent fogging. It also reduces the CO_2 content inside the mask, which along with its favorable inhalation/exhalation breathing resistance decreases the physiological burden on the user.

The speech diaphragm ensures at least 95% intelligibility of talk. The mask is equipped with a five-point rubber-textile head harness.

The CM-6M® mask is produced in one size. For proper functioning, the user's face should be smooth and free of facial hair or other hindrances where the gasket seals against the skin. The mask allows the use of dioptric glasses via spectacle insertion in a rubber slip in the facepiece (above the visor). Spectacles must be ordered separately (not a standard part of the mask).

Fit a filter to the mask by screwing it to the left or right inhalation port. The unused port (without filter) is sealed with an inhalation port plug. It is necessary to ensure the plug is properly screwed on and tightened. Inhalation ports of the CM-6M® mask are fitted with Rd 40×1/7″ thread according to the EN 148-1 standard.

Before use, the user must verify whether the filter thread (or breathing apparatus type) is compatible with the inhalation port thread.

Selection of a suitable filter depends on the type and concentration of the toxic agent. The CM-6M® mask equipped with a TIC or CWA filter is only suitable for use in an environment containing at least 17% oxygen. If oxygen content is lower, a breathing apparatus must be used instead of a filter. Review filter user guides for principles of filter selection and application.

The CM-6M® mask may be used in an explosive environment of explosion danger class 1 only.
The CM-6M® mask meets all requirements of class 3 of the EN 136 standard.

TECHNICAL DATA	
Weight	560 g
Available sizes	1 size
General field of vision	min. 70%
Binocular field of vision	min. 80%
Intelligibility of talk	95%
Facepiece material	bromine-butyl rubber
Visor material	polycarbonate
Filter connection thread	Rd 40 × 1/7”
Breathing resistance at 30 l/min. air flow:	
Inhalation resistance	max. 30 Pa
Exhalation resistance	max. 60 Pa

DONNING PROCEDURE

Take the mask out of the package and release each fastening strap as much as possible. Insert your hands into the mask and stretch the bottom and side fastening straps aside (Fig. 1). Put your chin into the mask and pull the harness over your head (Fig. 2). Make sure that the harness net is placed on the back of your head. Tighten the mask by symmetrically tightening the straps (Fig. 3). When the mask is well positioned, its pressure on your face is soft and regular.

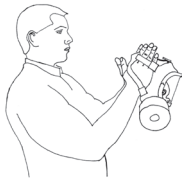


Fig 1



Fig 2



Fig 3

When using the spectacle insertion piece, insert the ends of the spectacle holder into the apertures in the facepiece's upper internal rubber ledge. The apertures enable positioning of the spectacles in two vertical positions. Test for correct positioning of the spectacle insertion piece before use.
Lenses are not provided with the mask.

MASK TIGHTNESS TEST

After donning the mask, perform a tightness test. Seal the inhalation port aperture (filter connection aperture) with your palm and inhale deeply. If the mask is tight and well positioned, under-pressure will occur under the facepiece. Potential leakage is indicated by suction of the ambient air into the facepiece and a decrease of under-pressure inside the mask. If this happens, check and tighten the harness straps.

Repeat the test two or three times until an appropriate seal is achieved.
A mask tightness check must be performed after every cleaning or exhalation valve replacement.

CONNECTING THE FILTER

Remove the mask's upper closing lid and the bottom cover of the filter. Screw the filter to the inhalation port and gently tighten so that the front of the filter thread fastens to the surface of the sealing ring in the inhalation port. Inhale and check whether air flows easily through the filter. Verify the filter/inhalation port connection is tight. Exhale, then cover the filter input aperture with the bottom cover or your palm and try to inhale. Inhalation is not possible if the connection is tight. Release the filter input aperture after finishing the test, and the mask is ready for use. If the filter is not in use close the filter input aperture with the bottom cover and the output aperture with the lid. When using a breathing apparatus follow the breathing apparatus instructions.

DOFFING PROCEDURE

Release harness straps by pulling the fastening buckles off your head. Take the exhalation port of the mask (Fig. 4) and pull the mask up over your head (Fig. 5).



Fig 4



Fig 5