



AVEC

AVEC TAPR

TACTICAL AIR PURIFYING RESPIRATOR

AVEC TAPR

The first fully certified respirator for special operations, security actions and rescue teams developed in cooperation with members of special forces. In conjunction with a corresponding filter type, the AVEC TAPR provides reliable protection for respiratory organs from dangerous substances in the form of gases, vapours, solid and liquid aerosols, including dangerous organisms such as bacteria, viruses, spores, etc.

The design and arrangement of the **AVEC TAPR®** are dictated by the protective function and requirements for tactical applications. The shape of the half mask sealing line is designed based on military protective masks and excels in maintaining excellent tightness and comfort in long-term use. The front filter mounting with a standard 40 mm NATO thread and exchangeable low-profile exhalation valve caps permit trouble-free use of assault rifles, carbines and submachine guns. Three types of fastening systems for ARC rails of ballistic helmets, police riot control helmets and the low-profile head harness for use without a helmet or with a helmet without rails, provide full compatibility with any protective means used by security forces and rescue teams. The TAPR is also compatible with tactical protective goggles and shields in common use.

The **AVEC TAPR®** can be fitted with a proprietary communication system that is mounted instead of an exhalation valve cap. This gives the user a communication interface with a sensitive microphone and connection to the required radio station, PTT or head-set. The microphone is designed to transmit speech and effectively reduce ambient noise. The system installation requires no special tools.



TECHNICAL DESCRIPTION

The **AVEC TAPR®** is made of high-quality sanitary silicone rubber, which does not cause skin irritation, permits long-term physiological tolerability while at work, causes no unpleasant feeling on contact with sensitive skin, is light, easy to apply when deploying it in the protective position and easy to remove. Physiological tolerability while in use is favourably affected by low inhalation and exhalation resistance. This is because the half mask has a unique dual-valve exhalation system, which guarantees easy exhalation even under heavy physical strain.

The **AVEC TAPR®** comes with a wide range of filters with a standard 40 mm round thread Rd 40x1/7" (EN 148-1, STANAG 4155). Thanks to the standard thread, the half mask is compatible with filters used by soldiers, police, rescue teams and medical staff around the world.

The **AVEC TAPR®** comes with two types of exhalation valve caps, which are interchangeable. The low cap is suitable for use on the side where the user lays the gunstock. It thus facilitates taking aim and improves firing comfort. The shape of the nose section is adjusted for use with tactical goggles.

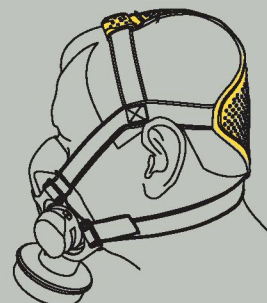


TECHNICAL DESCRIPTION

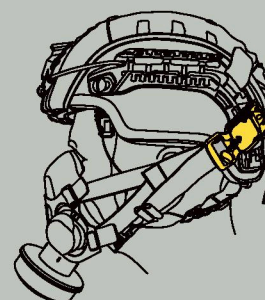
THE AVEC TAPR® COMES WITH A NUMBER OF EX- CHANGEABLE FASTENING SYSTEMS THAT PERMIT:

- Fastening to the head using a head harness with mesh and elastic elements.

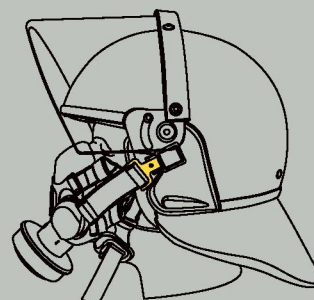
The fastening system is designed to permit fast and accurate half mask application, easy tightening and adjustment to the user's face. The top part made from breathable resilient mesh enables natural air circulation. The rear tab for easy half mask application and removal permits use even while wearing tactical gloves.



- Fastening to the helmet with ARC rails using Fidlock buckles
This proprietary fastening system uses Fidlock magnetic buckles for easy half mask fastening on the user's face in conjunction with a protective helmet fitted with lateral ARC rails. The Fidlock buckles and special fastening elements permit easy fastening of half mask straps to the helmet using only one hand. The user is not forced to let go of a weapon, etc., even in a tactical situation that requires immediate application of the protective half mask. At the same time, the half mask can be taken off in a single move thanks to the buckle design.



- Fastening to the helmet with the MSA Gallet system
The fastening system is fully compatible with the protective helmet systems MSA Gallet M05006, Schuberth P100 A, and Schuberth P100 °F, used by police and rescue corps around the world. The half mask is fastened to helmets using a heavy-duty metal buckle.





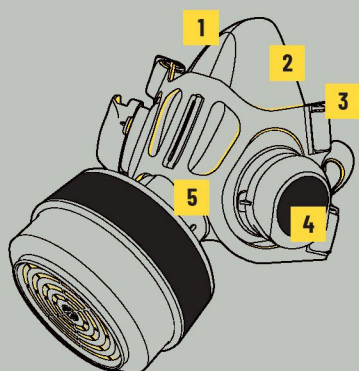
TECHNICAL DATA

TECHNICAL DATA	
Weight	120 g
Size	Universal fit
Fastening system	Rubber fabric head harness /ARC rail/USA buckle
Filter connection	EN 148-1, NATO STANAG 4155, 40×1/7"

INHALATION RESISTANCE			
at 30 l/min flow rate		at 160 l/min flow rate	
EN 1)	S-97	EN 1)	S-97
50	15	300	135

¹⁾ as per EN 140 standard

- 1.** Silicone material with extreme service life and comfortable contact with user's face
- 2.** Anatomical mask shape for perfect tightness
- 3.** Unique attachment system for various fastening systems



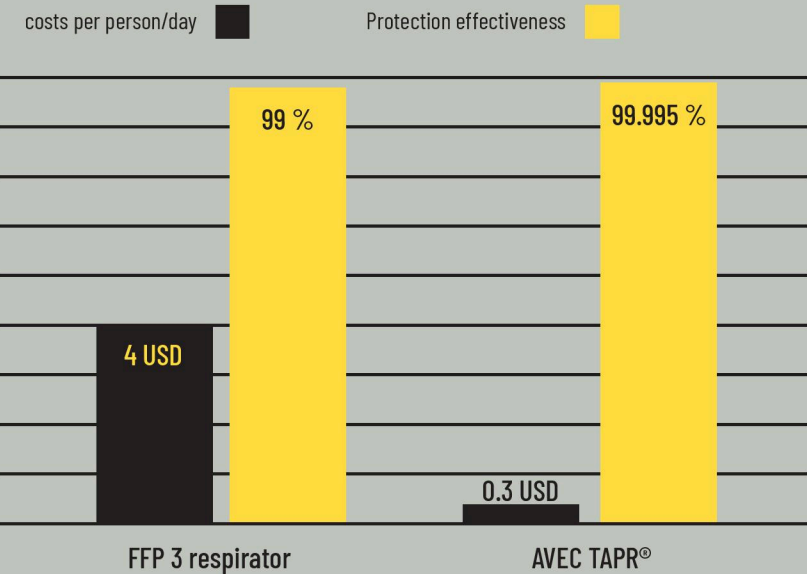
- 4.** Pair of exhalation valves with exchangeable caps for use while firing and for a communication interface
- 5.** EN 148-1, NATO STANAG 4155, 40x1/7" thread for filter connection

Thread for EN 148-1, NATO STANAG 4155, 40x1/7"
EN 140 certification



OPERATING ECONOMY

OPERATING ECONOMY		
	Protection effectiveness	Costs per person/day
FFP 3 respirator	99 %	4 USD
AVEC TAPR®	99.995%	0.3 USD



While ensuring maximum certified protection, the **AVEC TAPR®** shows daily costs of 8% compared to FFP 3 respirators. The economic cost saving is 92%!

The **AVEC TAPR®** is very easy to use and disinfect both in professional operations (medical facilities, etc.) and using simple techniques and ordinary cleaning agents.

- The effectiveness of the P3R filter (against particles, viruses and bacteria) is calculated to be 30 days.

COMMUNICATION INTERFACE FOR AVEC TAPR

The communication interface with a sensitive microphone is attached instead of one of the exhalation valve caps, optionally on the right or left. The microphone is tested under the standards:

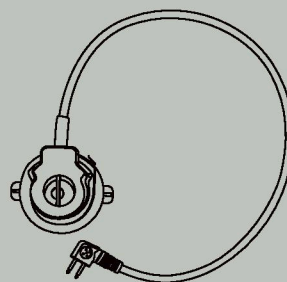
- IP67 against effects of water
- MIL-STD 810G on mechanical stress and temperature resistance
- MIL-STD A61G on electromagnetic compatibility
- The heavy-duty connecting cable is fitted with a connector as per user requirements for headsets 3M PELTOR, PISA, M20 MESIT or another communication device.



OPTIONAL

ACCESSORIES

1. Transport case
2. Tactical case with MOLLE
3. T-HH 001 head harness
4. ARCT-HH002 fastening system
5. MSA T-HH 003 fastening system
6. AVEC T communication interface



AVEC T communication interface

SUITABLE FILTERS FOR TAPR

P3R Particle filters

Particle filters provide protection against solid and liquid particles. Filters are divided into different classes according to their filtration efficiency. The highest class (P3) provides reliable protection against solid and liquid aerosols and hazardous microorganisms like bacteria, viruses, spores, etc.



NBC-1/SL filters

The filter provides reliable protection against solid and liquid aerosols, smoke producing substances, radioactive particles, bacteria, viruses, vapours of organic and inorganic acids, hydroxides, organic solvents with a boiling point above 65 °C, ammonia, amines, acid gases, agricultural chemical combustion products, tear-producing, irritant, choking, blister and nerve agents, e.g. bromoacetone, CS substance, organic compounds of arsenic, phosgene, hydrogen cyanide, cyanogen chloride, mustard gas, organophosphates – sarin, VX and other toxic substances, e.g. benzene, toluene, vinyl chloride, fluorine, hydrogen fluoride, sulphur oxides, phosgene, phosphoric acid and its organic derivatives, chloroacetic acid, nitric acid, aldehydes, mixtures of inorganic acids and organic substances, etc.



CN/CR filters

The filter provides respiratory protection against the effects of tear agents, especially Cs and CR gases and agents, both in gaseous or aerosol base, e.g. in aqueous solution. It is intended for members of law enforcement units, agents and intervention units using CS/CR substances.



