

**NEW**



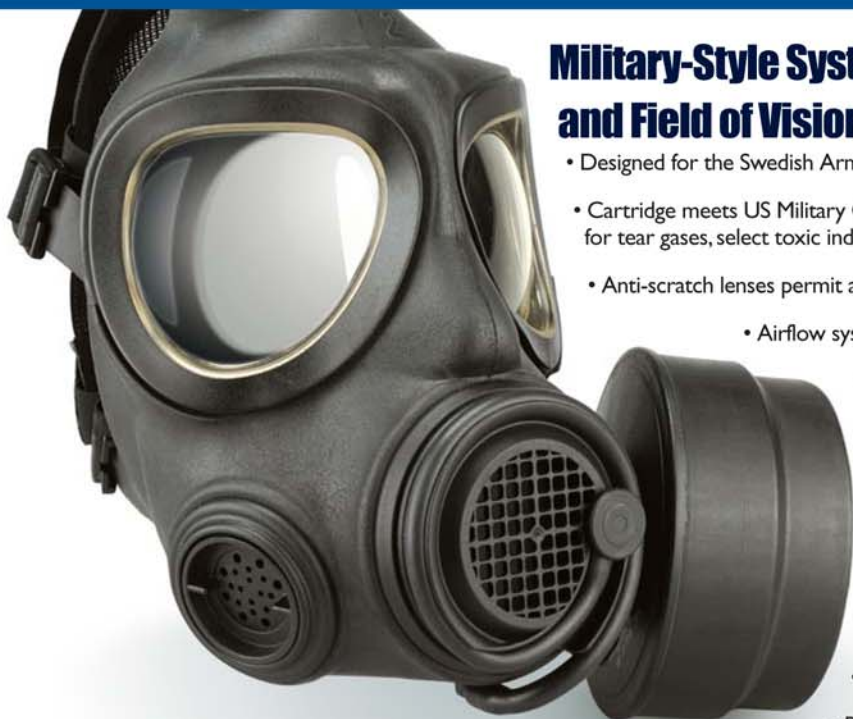
# M-TAC™ RESPIRATOR

**Chemical/Biological Protection For Law Enforcement & Emergency Responders**



## **Military-Style System with Excellent Protection and Field of Vision**

- Designed for the Swedish Armed Forces to protect against chemical, biological and radiological agents
- Cartridge meets US Military C2A1 specifications for gas life testing and NIOSH requirements for tear gases, select toxic industrial materials, and particulate agents
- Anti-scratch lenses permit a wide field of vision and optimal weapons-sighting
- Airflow system prevents lens fogging
- Superior integral-design drinking tube with standard M1 fitting (to connect to commercially available hydration systems) does not interfere with downward head movement and swivels out-of-the-way when not in use
- Optional speech capsule provides enhanced communications for side-mounted microphones or telephones
- Spectacle kit, drinking tube bottle cap and bottle, and carrying case accessories available
- Comfortable 6-strap fabric harness fits under ballistic helmets
- Bromobutyl rubber resists chemical attack; no need for second skin
- Fits into standard gas mask pouches worn on the leg, belt or vest



**Since the mid-1990s, over 600,000 masks have been produced**

NEW



# M-TAC™ RESPIRATOR

Chemical/Biological Protection For Law Enforcement & Emergency Responders

## Cartridge Testing Conditions and Results - Chemical Warfare Agents

Challenge Agent	Test Concentration	Flow Rate	Breakthrough Concentration	Time to Breakthrough
DMMP (surrogate for GB)	3000 mg/m <sup>3</sup>	50 lpm	0.04 mg/m <sup>3</sup>	>210 minutes*
Sarin (GB)	4000 mg/m <sup>3</sup>	32 lpm	0.04 mg/m <sup>3</sup>	>215 minutes*
Cyanogen Chloride (CK)	4000 mg/m <sup>3</sup>	32 lpm	8.0 mg/m <sup>3</sup>	30 minutes*
Chloropicrin (PS)	15000 mg/m <sup>3</sup>	30 lpm	0.7 mg/m <sup>3</sup>	70 minutes
Hydrogen Cyanide (AC)	5500 mg/m <sup>3</sup>	30 lpm	5.0 mg/m <sup>3</sup>	45 minutes

**Shelf Life:** 10 years (foil wrap, plugs)

**Diameter:** 4.25 inches (10.8 cm)

**Height:** 3 inches (7.6 cm)

**Weight:** 0.71 pounds (323 grams)

**Connection:** 40 mm NATO thread

**Body Material:** Black polyamide

The Cartridge was tested by independent labs to verify its performance against a range of chemical warfare agents.

## Cartridge Testing Conditions and Results - NIOSH 42 CFR Part 84 Gases (Toxic Industrial Materials)

Gas Challenge	Test Concentration	Flow Rate	Breakthrough Concentration	Time to Breakthrough
Phosphine	1500 ppm	64 lpm	0.3 ppm	>24 minutes**
Tear Gas (CS)	3 ppm	64 lpm	0.05 ppm	>480 minutes**
Tear Gas (CN)	16 ppm	64 lpm	0.05 ppm	>480 minutes**
Chlorine	500 ppm	64 lpm	5.0 ppm	>35 minutes**
Hydrogen Chloride	500 ppm	64 lpm	5.0 ppm	25 minutes**
Sulfur Dioxide	500 ppm	64 lpm	5.0 ppm	>85 minutes**
Formaldehyde	100 ppm	64 lpm	1.0 ppm	>100 minutes**
Ammonia	1000 ppm	64 lpm	50.0 ppm	>55 minutes**
Methylamine	1000 ppm	64 lpm	10.0 ppm	>80 minutes**
Hydrogen Sulfide	1000 ppm	64 lpm	10.0 ppm	>60 minutes**
Chlorine Dioxide	500 ppm	64 lpm	0.1 ppm	>60 minutes**
Hydrogen Fluoride	70 ppm	64 lpm	3.0 ppm	>60 minutes**

\* Note: These tests are part of the performance specifications for the C2A1 canister, as specified in military specification MIL-PRF-51560A (EA), 1 July 1997, Performance Specification: Canister, Chemical-Biological Mask: C2A1. The Cartridge meets or exceeds the performance requirements of the C2A1 canister for these gases.

\*\* Note: The Cartridge toxic industrial materials (TIMs) performance exceeds the 42 CFR Part 84 minimum service life requirements for these gases.

In addition to protecting against toxic industrial materials (TIMs) and the chemical warfare agents listed above, the Cartridge offers particulate protection that is over 99.97% efficient. The P100 filter removes all aerosols and solid particulates, which makes it effective protection against a range of weaponized biological agents.

Product Code	Description
59200-00001	AOSafety M-Tac Respirator, Small
59201-00001	AOSafety M-Tac Respirator, Medium
59202-00001	AOSafety M-Tac Respirator, Large
59231-00000	AOSafety M-Tac Cartridge
59212-00000	Maintenance Kit
59213-00000	Head Harness
59215-00000	Storage/Carrying Case
59216-00000	Speech Capsule
59217-00000	Spectacle Kit
59219-00000	Bottle Cap and Bottle for Drinking Tube



www.aosafety.com

### For ordering information or your nearest stocking distributor:

U.S.A	Canada	Export Sales
Phone: 1-800-225-9038	1-800-387-9681	1-317-692-6643
Fax: 1-800-488-8007	1-800-488-8007	1-317-656-5827

### Technical Questions?

U.S.A & Canada	Other Countries
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