



NOW AVAILABLE TO
BUY ONLINE*

* Available only in the United States.
Restrictions may apply.

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FM50

The First Choice for Defence

The FM50 is part of the latest generation of Avon Protection's CBRN full face mask, specifically designed to meet the latest NATO forces military mask requirements.

[BUY NOW](#)

Suitable for:

First Responders

Military



FEATURES AND BENEFITS



Field of View

Panoramic single lens visor

Optically correct visor

Comfort

3 face piece sizes for improved fit

Chlorobutyl rubber silicone blend mask

Scratch Resistant

High flow fail safe drinking device



Air Management

Low inhalation resistance & excellent de-mist properties

Heat build-up minimized

Low-re-breathed carbon dioxide

Communications

Front mounted exhale valve allows clear direct communication

Electronic Communication Port (ECP) for optional voice projection

Radio communications available through ECP

TECHNICAL SPECIFICATIONS

TECHNICAL DATA

CBRN Agent Resistance

Mustard (H)

Sarin (GB)

Soman (GD)

VX

Laboratory Protection Factory Performance (Sodium Chloride)

FM50 Performance

Greater than 36 hrs

Greater than 10,000

Weight

FM50 Mast (including twin filters)

840 grams

Breathing Performance

Re-breathed CO₂

0.80%

Inhalation Resistance at:

Mask Only

Mask & Filters

30 L/Min

2 mm WG

10 mm WG

95 L/Min

8 mm WG

30 mm WG

160L/Min

12 mm WG

64 mm WG

Exhalation resistance at:

85 L/Min

7 mm WG

160 L/Min

12 mm WG

Field of View

Visual Field Score - NIOSH CBRN APR Standard

96



The FM50 has been designed to be compliant with the latest US and NATO military CBRN requirements

RESOURCES AND DOWNLOADS

ACCESSORY DATA SHEETS

FILTER DATA SHEETS

PRODUCT LITERATURE

Dust/Decon Filter Covers Data Sheet

CBRNCF50 CE Data Sheet

Product Brochure

Outserts Data Sheet

CBRNCF50 Data Sheet

Tactical Mask Communications (TMC) Data Sheet

CFP100 Data Sheet

Universal Mask Carrier Data Sheet

CSCF50 Data Sheet

Vision Correction Assembly Data Sheet

CTCF50 Data Sheet

FM61 Data Sheet

Voice Projection Unit (VPU)
Data Sheet

GPCF50 Data Sheet

MILCF50 Data Sheet

TECHNICAL DOCUMENTS

Filter Selection Matrix

ACCESSORIES

ALL

OUTSERTS

FILTERS

CARRIERS

COMMUNICATIONS

BlueBlocker Outsert



[VIEW DATA SHEET](#)

Designed for specialist use to improve weapon sighting. Delivers sharper images by filtering out specific light wavelengths. Constructed from flexible polycarbonate providing additional impact and scratch resistance.

Clear Outsert



[VIEW DATA SHEET](#)

Flexible polycarbonate outsert that simply attaches to 50 series masks to provide additional impact and scratch resistance in extreme environments.

FM61



[VIEW DATA SHEET](#)

Low profile conformal filter with bayonet quick fit for use only with the FM50 Mask. General purpose military CBRN performance.

Individual Equipment Carrier



[VIEW DATA SHEET](#)

Complimentary to the Mask Carrier and provides additional storage of antidotes and first aid equipment. Designed with MOLLE attachment, it offers multiple mounting options and flexible storage options.

Laser Outsert



Mirrored Outsert



[VIEW DATA SHEET](#)

Specialist accessory for the removal of harmful laser wavelengths commonly produced by laser sighted weapons. Constructed from flexible polycarbonate providing additional impact and scratch resistance.

[VIEW DATA SHEET](#)

Provides protection from UV light and improves contrast and depth perception. It also hides the wearer's eyes while reflecting the surroundings to provide psychological advantages in threat situations.

Sunlight Outsert



[VIEW DATA SHEET](#)

Additional protection against high level UV light and flash flares. Constructed from flexible polycarbonate providing additional impact and scratch resistance.

TMC Tactical Mask Communications System



[VIEW DATA SHEET](#)

The TMC range offers a simple to configure, install and use range of connectors, press to talk units, microphones and earpieces designed to provide the user with clear and safe communications while wearing an Avon Protection respirator.

Vision Correction Assembly



Voice Projection Unit (VPU)





[VIEW DATA SHEET](#)

Enables prescription lenses to be fitted to the 50 Series masks ranging from -8 to +10 Diopters in power. Flexible design allows assembly to fold inside the mask.



[VIEW DATA SHEET](#)

For enhanced communication, an optional Voice Projection Unit (VPU) with internal microphone is easily connected via the Electronic Communication Port (ECP).

RELATED PRODUCTS

C50

First Responder Respirator Mask

The Avon Protection C50 protective mask is based on the U.S. M50/JSGPM and shares key technologies to provide maximum protection against CBRN Agents, TICs and TIMs.

[VIEW PRODUCT](#)



FM53

The Multiple Mission Mask

Avon Protection's revolutionary FM53 multi-role Respiratory Protective Equipment (RPE) System has been developed specifically for specialist applications where the user needs to respond to ever changing operational conditions.

[VIEW PRODUCT](#)



FM54

Single Mask, Maximum Flexibility

The Avon Protection fire hardened FM54 Air Purifying Respirator provides Specialist Operators maximum protection and total flexibility. The FM54 provides protection to the face, eyes and respiratory tract from Chemical, Biological, Radiological and Nuclear (CBRN) threats, Riot Agents, Toxic Industrial Chemicals (TICs) and Toxic Industrial Materials (TIMs) while maintaining extreme user flexibility as mission profiles change.

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