

# FM53™

THE MULTIPLE MISSION MASK



Air Purifying Respirator

**AVON**  
PROTECTION



# FM53™

THE MULTIPLE MISSION MASK



The FM53 protective mask was developed to operate with the wide range of respiratory protection equipment used by specialist operators in the field.

The mask, based on the U.S. M50/ JSGPM (Joint Services General Purpose Mask) and sharing key technologies, provides maximum operational flexibility to counter multiple threat scenarios, including chemical, biological, nuclear and radiological (CBRN) agents, Toxic Industrial Chemicals (TICs), and Toxic Industrial Materials (TIMs).

## IDEAL FOR:

- Special Response Teams
- EOD (Explosive Ordnance Disposal) Operators
- Civil Support Teams



FM53 is certified to the European PPE Regulation 2016/425/EU - Module B: Certificate CE 684837.



The FM53 mask is NIOSH certified in the following configurations:

- FM53 mask with CFP100 filter Certified under 42 CFR 84
- FM53 mask with CTF50 filter Certified under 42 CFR 84
- FM53 mask with CBRNCF50 filter Certified under CBRN APR Standard Cap1
- FM53 mask is a component of the ST53 SCBA system, which is certified under 42 CFR 84



## KEY FEATURES

- The flexible, panoramic eyelens minimizes visual stress and maximizes field of view; provides ballistic protection and scratch resistance
- 6 point skull cap head harness with low profile pre-adjusted brow straps
- Fail safe, high flow hydration system

## OPERATOR COMFORT

- Available in four sizes for customized protection to accommodate all operators
- Interchangeable silicone nose cups for custom fit
- Comfortable reflex seal with low profile brow for helmet compatibility
- Removable outserts are available to provide additional ballistic protection, comfortable operation in sunlight, and blue light filtration for sharper sighting

# THE MULTIPLE MISSION MASK

## SPECIALIST MASK

- The unique chlorobutyl/silicone blend face piece material ensures the mask is not only high in protection but also provides a better seal and is more comfortable to wear for extended periods
- Flexible face piece provides superior cheek-to-stock weld for weapons integration
- Reduced buckle size for suit/helmet integration
- Mask integrates with NFPA Class 2 and 3 suits
- Second-skin hood/mask interface allows mask to integrate with the Gore Chempak™ material protective hood
- Available in single port and twin port models

## MODES OF OPERATION

- FM53 functions in \*both negative and positive pressure modes (APR, SCBA and PAPR)
- Lever located on VREU (Variable Resistance Exhalation Unit), switches mode from positive to negative pressure without removal of VPU (Voice Projection Unit) or loss of protection



## COMMUNICATIONS

- Integrated voice communications capability with internal microphone for radio and Voice Projection Unit use\*\*
- Provides clear communication while wearing mask
- Electronic pass-through for external radio use

## FILTRATION

### FM53 + GPCF50 Filter

- NBC response configuration

\*The FM53 with GPCF50 filter is not a NIOSH certified configuration

### FM53 + CTCF50 Filter

- Crowd control configuration
- NIOSH certified configuration

### FM53 + CBRNCF50 Filter

- CBRN response configuration
- NIOSH certified configuration

### FM53 + CFP100 Filter

- NIOSH certified configuration

\*FM53 mask is currently NIOSH certified in Negative Pressure mode ONLY.

\*\*Mask shown with VPU (Voice Projection Unit).

# FM53 Mask Specification

Mask Performance		Weight	
<b>CBRN Agent Resistance</b>	<b>FM53 performance</b>	FM53 mask (excluding filter)	1.6 lbs.
Mustard (H)	Greater than 36 hours	<b>Field of view</b>	
Sarin (GB)		Visual field Score - NIOSH CBRN standard	96
Soman (GD)		<b>Materials used</b>	
VX		FM53 Mask Visor	Flexible polyurethane
Laboratory protection factor performance (Sodium Chloride)	Greater than 10,000 NIOSH certified at 2000PF	FM53 Mask Facepiece	Chlorobutyl/Silicone Rubber
<b>Breathing Performance (excluding filter)</b>		<b>Hydration</b>	
Re-breathed CO <sub>2</sub>	0.8%	Drinking Flow Rate	>230 ml/min
<b>Inhalation resistance at:</b>		<b>NIOSH certifications</b>	
85 l/Min	15 mm WG	FM53 with CFP100 filter	NIOSH certified to 42CFR84 Approval number TC-84A-9235
160 l/min	32 mm WG	FM53 with CTCF50 filter	NIOSH certified to 42CFR84 Approval number TC-14G-0323
<b>Exhalation resistance negative pressure mode:</b>		FM53 with CBRNCF50 filter	NIOSH CBRN APR standard Cap 1 Approval number TC-14G-0319
85 l/min	15 mm WG		
160 l/min	30 mm WG		
Exhalation resistance positive pressure mode:	40 mm WG		



## Industry Certified Protection Factors

NATO standard protection factors give reassurance that the mask has been rigorously tested to optimum levels.

NIOSH CBRN certified TC-14G-0319.

NIOSH approved 42 CFR 84 CS/CN/P100 TC-149-0278.

NIOSH approved 42 CFR 84 P100 TC-84A-9235.



Type - examination approval:

PPE Regulation 2016/425/EU -

Module B: Certificate CE 684837.

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