



FM53™

THE MULTIPLE MISSION MASK

AIR PURIFYING RESPIRATOR

AVON
PROTECTION

FM53™

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The Avon 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 Directive 89/686/EEC BSI, Certificate Number 553554.



The FM53 mask is NIOSH certified in the following configurations:

- FM53 mask with CTF12 filter Certified under 42 CFR 84
- FM53 mask with CBRNF12B 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
- The flexible, panoramic eyelens minimizes visual stress and maximizes field of view; provides ballistic protection and scratch resistance
- Fail safe, high flow hydration system



*Avon FM53 mask with GPCF50 filter as shown is not a NIOSH-certified configuration.

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, CCBA 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 + CSCF50 Filter**
Crowd control configuration
*The FM53 with CSCF50 filter is not a NIOSH certified configuration
- **FM53 + CBRNF12B Filter**
CBRN response configuration
NIOSH certified configuration

FM53™

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

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

FM53 Mask Specifications

CBRN Agent Resistance	FM53 performance
Mustard (H)	Greater than 36 hours
Sarin (GB)	
Soman (GD)	
VX	
Laboratory protection factor performance (sodium chloride)	Greater than 10,000 NIOSH certified at 2000PF
Breathing Performance (excluding filter)	
Re-breathed CO ₂	0.8%
Inhalation resistance at:	
85 l/Min	15 mm WG
160 l/min	32 mm WG
Exhalation resistance negative pressure mode:	
85 l/min	15 mm WG
160 l/min	30 mm WG
Exhalation resistance positive pressure mode:	40 mm WG

Weight	
FM53 mask (excluding filter)	1.6 lbs.
Field of view	
Visual field Score - NIOSH CBRN standard	96
Materials used	
FM53 Mask Visor	Flexible polyurethane
FM53 Mask Facepiece	Chlorobutyl/Silicone Rubber
Hydration	
Drinking Flow Rate	>230 ml/min
NIOSH certifications	
FM53 with CTCF50 filter	NIOSH certified to 42CFR84 Approval number TC-14G-0323
FM53 with CBRNF12B filter	NIOSH CBRN APR standard cap1 Approval number TC-14G-0305

The Americas

t: +1 888 286 6440

e: customerservice@avon-protection.com

Europe, Middle East, Asia, Africa & Australasia

t: +44 (0) 1225 896705

e: protection@avon-protection.com

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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-0305. NIOSH industrial certified TC-14G-0304



FM53 is CE certified to the European PPE Directive 89/686/EEC BSI, Certificate Number 553554

The FM53 respirator falls within the definition of Significant Military Equipment in the United States Munitions List, International Traffic in Arms Regulations and may only be supplied outside of the United States of America to customers who are licensed by the US Department of State, Directorate of Defense Trade Controls.



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