

FM54™

SINGLE MASK, MAXIMUM FLEXIBILITY



AIR PURIFYING RESPIRATOR

AVON
PROTECTION

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

APPLICATIONS



Special Response Teams
Law Enforcement
Clandestine Drug Lab
Entry & Remediation
Bomb Squads
First Responders
SWAT/ERT Teams
Civil Support Teams
Chemical Spill Cleanup
Bio Identification & Clean Up



KEY FEATURES

- The flexible, panoramic single lens visor minimizes visual stress and provides best in class field of view and compatibility with weapons sights and night vision equipment while providing ballistic protection and scratch resistance
- Vision correction assembly for prescription lenses
- Fail safe, high flow hydration system
- 6 point fire hardened skull cap head harness with low profile pre-adjusted brow straps
- A full range of filters are available to meet the variety of needs that the FM54 can address
- Ruggedized integrated mode selector

OPERATOR COMFORT

- Available in four sizes to accommodate all operators
- Comfortable reflex seal with low profile brow for superior helmet compatibility
- Interchangeable silicone nosecups for custom fit

VISION

Full range of removable outserts are available to provide additional ballistic protection and comfortable operation



CLEAR



SUNLIGHT



BLUEBLOCKER



MIRRORED



SHADE 5
BREACHING



LASER

COMMUNICATIONS



- Optional low profile, voice projection unit with internal microphone
- Provides clear communication while wearing mask
- Electronic pass-through for external radio use



FM54 shown with optional Voice Projection System, Blueblocker Outsert and CTCF50 Canister.

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
- FM54 functions in both negative and positive pressure modes (APR, SCBA, CCBA and PAPR)
- Reduced buckle size for suit/helmet integration

- Second-skin hood/mask interface allows mask to integrate with the Gore Chempak™ material protective hood
- Enhanced, robust lever located on VREU (Variable Resistance Exhalation Unit), switches mode from positive to negative pressure without removal of optional VPU (Voice Projection Unit) or loss of protection

FM54™ TECHNICAL DATA

CBRN Agent Resistance	Requirement	FM54 Performance
Mustard Vapour (HD) Mustard Liquid (HD) Sarin (GB)	36 hours	>36 hours
Laboratory protection factor performance (sodium chloride)	Requirement	FM54 Performance
	2,000	>10,000
Re-breathed CO ₂	<1%	
Inhalation Resistance	30 L/Min 95 L/Min 160 L/Min	<5 mm WG <12 mm WG <23 mm WG
Exhalation Resistance negative pressure mode	85 L/Min 160 L/Min	<8 mm WG <12 mm WG
Weight		
FM54 mask (excluding filter)		<0.65 kg (1.43lbs)
Field of View		
Visual Field Score (NIOSH CBRN Standard)		96
Materials Used		
FM54 Mask		Chlorobutyl / Silicone rubber & Polyurethane
Hydration		
Drinking Flow Rate		230 mL/min

Filter Applications			
Filter	Part Number	Classification	Application
CSCF50	72601/71/4	Riot Control	All particulate hazards including dust, fume, bacteria and virus, plus riot agent CS (meets 8 hour NIOSH test standards) and CN (< 1 hour against NIOSH test standards).
CTCF50	72606/3	Riot Control	Specifically designed for removal of riot control agents and tear gases including CS, CN and OC pepper spray.
GPCF50	72601/70/2	NATO CBRN	Chemical, biological and radiological warfare agents in accordance with NATO requirements. Also certain toxic industrial chemicals such as chlorine, hydrogen, sulphide, sulphur dioxide and organic vapours with a boiling point of above 65° C.
MILCF50	72604/3	NATO CBRN	CBRN filter canister designed to meet the relevant criteria specified in the NIOSH CBRN APR standard at the 15-minute classification level (CAP I). The EUROPEAN STANDARD, EN 14387 (A1B2E1K1P3), and chemical and biological warfare agents in aerosols, liquid and vapour form.
CBRNF12CE	70010/23/1	CE Approved	Dual classification filter for CBRN and industrial use. Meets the requirements of EN14387 (A1, B2, E1, K1 and P3), NIOSH CBRN APR standard cap 1, and NATO requirements against CWA agents including Hydrogen Cyanide (AC), Cyanogen Chloride (CK), Sarin (GB) and Mustard (HD).

FM54 Twin Port Mask (CE Certified)	
Description	Part Number
FM54 CE Mask Twin Port XS	72850/9
FM54 CE Mask Twin Port SML	72850/10
FM54 CE Mask Twin Port MED	72850/11
FM54 CE Mask Twin Port LRG	72850/12



Article 10 type-examination approval for CE Marking - PPE Directive 89/686/EEC

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