

# FM54™

SINGLE MASK, MAXIMUM FLEXIBILITY



Air Purifying Respirator

**AVON**  
PROTECTION

# FM54™

SINGLE MASK, MAXIMUM FLEXIBILITY



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 (TIMs) while maintaining extreme user flexibility as mission profiles change.



-  
NEGATIVE  
PRESSURE

+  
POSITIVE  
PRESSURE

Standard 40mm  
EN148-1 compliant thread

## 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 nose cups for custom fit

### VISION

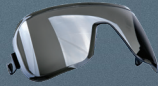
Full range of removable outserts are available to provide additional ballistic protection and comfortable operation



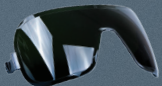
CLEAR



MIRRORED



SUNLIGHT



SHADE 5  
BREACHING



BLUEBLOCKER

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

Filter Applications			
Filter	Part Number	Classification	Application
CTCF50	72606-3	Riot Control	Removal of aerosols, particulate matter, smoke, fumes and vapours. Specifically designed for removal of tear gases including CS, CN and OC pepper spray.
CBRNCF50	72602-2	NIOSH Approved CBRN CAP1	Dual classification for industrial and CBRN applications. All particulate hazards including dust, mist, fume, bacteria and virus plus all NIOSH specified CBRN gases and vapors including nerve, blood, choking and blister agents and toxic industrial materials.
CFP100	605915-01/02	NIOSH Approved P100	All particulate hazards including dust, fume, bacteria and virus.

	<b>Industry Certified Protection Factors</b> NATO standard protection factors give reassurance that the mask has been rigorously tested to optimum levels. NIOSH CBRN APR certified: TC- 14G-0327. NIOSH approved 42 CFR 84 CS/CN/P100: TC-14G-0342 NIOSH approved 42 CFR 84 P100: TC-84A-9234
	<b>(Twin Port Mask (NIOSH Certified FM54</b>
Description	Part Number
FM54 NIOSH Mask Twin Port XS	72850-13
FM54 NIOSH Mask Twin Port SML	72850-14
FM54 NIOSH Mask Twin Port MED	72850-15
FM54 NIOSH Mask Twin Port LRG	72850-16

	Type-examination approval: PPE Regulation 2016/425/ EU - Module B: Certificate CE 684839.
	<b>(Twin Port Mask (CE Certified FM54</b>
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

**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

Twin Port Mask Specialist Responder Kit FM54	
Kit includes: Twin Port FM54 APR, Clear Outsert Assembly, BlueBlocker Outsert Assembly, CBRN Canister, CTCF50 Riot Agent Canister, Universal Carrier & Storage Faceform	
Description	Part Number
FM54 Twinport Specialist Responder Kit, XS	70501-697-5
FM54 Twinport Specialist Responder Kit, SML	70501-697-6
FM54 Twinport Specialist Responder Kit, MED	70501-697-7
FM54 Twinport Specialist Responder Kit, LGE	70501-697-8

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