FM54™
SINGLE MASK, MAXIMUM FLEXIBILITY
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

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.

**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**

- Standard 40mm EN148-1 compliant thread
- Negative pressure
- Positive pressure

- 40mm EN148-1 thread compliant

- Key applications:
  - Special Response Teams
  - Law Enforcement
  - Clandestine Drug Lab
  - Entry & Remediation
  - Bomb Squads
  - First Responders
  - SWAT/ERT Teams
  - Civil Support Teams
  - Chemical Spill Cleanup
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**NIOSH**

**CE**
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

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

- CLEAR
- MIRRORED
- SUNLIGHT
- SHADE 5 BREACHING
- BLUETBLOCKER
- LASER

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

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
# TECHNICAL DATA

## CBRN Agent Resistance
- Mustard Vapour (HD)
- Mustard Liquid (HD)
- Sarin (GB)

### Requirement
<table>
<thead>
<tr>
<th>CBRN Agent Resistance</th>
<th>Requirement</th>
<th>FM54 Performance</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mustard Vapour (HD)</td>
<td>36 hours</td>
<td>&gt;36 hours</td>
</tr>
<tr>
<td>Mustard Liquid (HD)</td>
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<td>&gt;36 hours</td>
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<tr>
<td>Sarin (GB)</td>
<td>36 hours</td>
<td>&gt;36 hours</td>
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</table>

## Laboratory protection factor performance (sodium chloride)

### Requirement
<table>
<thead>
<tr>
<th>Requirement</th>
<th>FM54 Performance</th>
</tr>
</thead>
<tbody>
<tr>
<td>2,000</td>
<td>&gt;10,000</td>
</tr>
</tbody>
</table>

## Re-breathed CO₂

- Requirement: <1%

## Inhalation Resistance

- Requirement: <5 mm WG
- Requirement: 30 L/Min
- Requirement: 95 L/Min
- Requirement: 160 L/Min

## Exhalation Resistance

- Requirement: <8 mm WG
- Requirement: 85 L/Min
- Requirement: 160 L/Min
- Requirement: <5 mm WG

## Field of View

- Requirement: 96

## Materials Used

- FM54 Mask: Chlorobutyl / Silicone rubber & Polyurethane

## Re-breathed CO₂

- Weight: <0.65 kg (1.43lbs)

## Visual Field Score

- Requirement: 96

## Drinking Flow Rate

- Requirement: 230 mL/min

## Filter Applications

<table>
<thead>
<tr>
<th>Filter</th>
<th>Part Number</th>
<th>Classification</th>
<th>Application</th>
</tr>
</thead>
<tbody>
<tr>
<td>CTCF50</td>
<td>72606-3</td>
<td>Riot Control</td>
<td>Removal of aerosols, particulate matter, smoke, fumes and vapours.</td>
</tr>
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<td>CBRNCF50</td>
<td>72602-2</td>
<td>NIOSH Approved CBRN CAP1</td>
<td>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.</td>
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</tbody>
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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 APR certified: TC-14G-0327.
- NIOSH approved 42 CFR 84 CS/CN/P100: TC-14G-0342

## FM54 Twin Port Mask (NIOSH Certified)

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<th>Description</th>
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<tbody>
<tr>
<td>FM54 NIOSH Mask Twin Port XS</td>
<td>72850-13</td>
</tr>
<tr>
<td>FM54 NIOSH Mask Twin Port SML</td>
<td>72850-14</td>
</tr>
<tr>
<td>FM54 NIOSH Mask Twin Port MED</td>
<td>72850-15</td>
</tr>
<tr>
<td>FM54 NIOSH Mask Twin Port LRG</td>
<td>72850-16</td>
</tr>
</tbody>
</table>

## FM54 Twin Port Mask Specialist Responder Kit

- Kit includes: Twin Port FM54 APR, Clear Outsert Assembly, BlueBlocker Outsert Assembly, CBRN Canister, CTCF50 Riot Agent Canister, Universal Carrier & Storage Faceform

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<tr>
<td>FM54 Twinport Specialist Responder Kit, XS</td>
<td>70501-697-5</td>
</tr>
<tr>
<td>FM54 Twinport Specialist Responder Kit, SML</td>
<td>70501-697-6</td>
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<tr>
<td>FM54 Twinport Specialist Responder Kit, MED</td>
<td>70501-697-7</td>
</tr>
<tr>
<td>FM54 Twinport Specialist Responder Kit, LGE</td>
<td>70501-697-8</td>
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## Type-examination approval: PPE Regulation 2016/425/EU - Module B: Certificate CE 684839.

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