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).

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

IDEAL FOR:

Special Response Teams
EOD (Explosive Ordinance Disposal) Operators
Civil Support Teams


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 STS3 SCBA system, which is certified under 42 CFR 84

*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
- Comfortable reflex seal with low profile brow for helmet compatibility
- Interchangeable silicone nose cups for custom fit
- 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 + CSCF50 Filter**
  Crowd control configuration
  *The FM53 with CSCF50 filter is not a NIOSH certified configuration.

- **FM53 + CTCF50 Filter**
  Crowd control configuration
  NIOSH certified configuration

- **FM53 + CBRNF12B Filter**
  CBRN response configuration
  NIOSH certified configuration

*FM53 mask is currently NIOSH certified in Negative Pressure mode ONLY.
**Mask shown with VPU (Voice Projection Unit).
**FM53 Mask Specifications**

<table>
<thead>
<tr>
<th>CBRN Agent Resistance</th>
<th>FM53 performance</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mustard (H)</td>
<td>Greater than 36 hours</td>
</tr>
<tr>
<td>Sarin (GB)</td>
<td></td>
</tr>
<tr>
<td>Soman (GD)</td>
<td></td>
</tr>
<tr>
<td>VX</td>
<td></td>
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</tbody>
</table>

Laboratory protection factor performance (sodium chloride)

Greater than 10,000 NIOSH certified at 2000PF

**Breathing Performance (excluding filter)**

| Re-breathed CO₂              | 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:**

| 85 l/min                    | 15 mm WG                               |
| 160 l/min                   | 30 mm WG                               |

**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 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.