M50 JSGPM. PROTECTING TODAY’S WARFIGHTER WITH TOMORROW’S TECHNOLOGY.

Trade Controls. 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

The M50 respirator falls within the definition of Significant Military Equipment in the United States Munitions List, International Traffic in Arms Regulations

M50 Filter Performance

Made in America

M50 mask (including twin filters) 1.9 lbs.

(Sodium Chloride)

Factory Performance

Laboratory Protection

VX

Soman (GD)

Mustard (H)

M50

Cyanogen Chloride (CK) >45 mins 15 mins

Hydrogen Cyanide (AC) >45 mins 15 mins

Any thickened form of agent

CBRN Agent Resistance M50 Performance

Cyclohexane >20 mins 15 mins

NIOSH CBRN Test Agent

Phosgene > 100 mins 15 mins

integrate■with■vehicle■blowers■and■

Chempak™■■barrier■technology),■a■

protection■■(constructed■from■Gore■

a■ CVC■hood■for■head■and■neck■

vehicle■operators.■Consisting■of■

COLPRO■systems.

specifically■designed■for■combat■

distribution.

Chemical,■Biological,■Radiological■

protection■products■for■use■in■

and■manufacture■of■respiratory■

by several branches of the military.

M50/JSGPM■(Joint■Services■

and■Nuclear■(CBRN)■applications.

Chemical,■Biological,■Radiological■

respiratory■protective■masks■used■

selected■by■the■U.S.■Department■

a. Nerve Agents

“G” Series

b. Blister Agents

Lewisite

c. Blood Agents

d. Riot Control Agents

OC (Pepper Spray)

Cyanogen Chloride

Hydrogen Cyanide

Chloropicrin

Greater than 36 Hrs

Visual Field Score – NIOSH CBRN APR Standard 96

160 L/Min

Exhalation Resistance at:

95 L/Min

30 L/Min

12 mm WG

8 mm WG

2 mm WG

64 mm WG

30 mm WG

10 mm WG

30 L/Min

95 L/Min

12 mm WG

7 mm WG

5 mm WG

12 mm WG

160 L/Min

85 L/Min

160 L/Min

95 L/Min

30 L/Min

12 mm WG

7 mm WG

5 mm WG

The Vision Correction System allows

Unique Visor Technology

BlueBlocker outsert delivers

Sunlight outserts for high

Clear outserts for extreme

Laser outserts for protection

sharper images by filtering out

field of view

against specific wavelengths

Unique polyurethane visor is highly

compatibility with weapon sights

recognition while enhancing

field of view

resistant

flexible plus scratch and impact

compatible with weapon sights

against specific wavelengths

re-breathed CO2 0.8%

Low inhalation resistance

Low re-breathed carbon dioxide

The M50 provides outstanding

protection from battlefield

CBRN applications.

Avon Protection Systems, Inc.

www.avon-protection.com

1 888 AVON 440

Communications

Extended ■chin■flap■for■garment■

Chlorobutyl ■rubber■silicone■blend■

Unique twin low profile

Conformal filter technology

Bayonet fit provides quick

and efficient filter attachment

reduces breathing resistance

and improves weight

without breaking the

equipment

compatible ■with■JSLIST■suits■

Connections

Military Grade Interface (MGI)

Electronic Communication Port (ECP)

Audio Amplifier to be

wearing mask

communication while

or bladder type system

compatibility ■with■JSLIST■suits■

maintenance

or bladder type system

compatibility ■with■JSLIST■suits■

maintenance

Avon■Protection■Systems,■Inc.

JSGPM. PROTECTING TODAY’S WARFIGHTER WITH TOMORROW’S TECHNOLOGY.
Avon Protection Systems, Inc. is a leader in the development and manufacture of respiratory protection products for use in Chemical, Biological, Radiological and Nuclear (CBRN) applications.

The M50/JSGPM (Joint Services General Purpose Mask) has been selected by the U.S. Department of Defense to replace existing respiratory protective masks used by several branches of the military.

The M50 provides outstanding protection from battlefield concentrations of CB agents, toxic industrial materials, toxic chemicals and particulate matter. The streamlined design offers unique twin conformal filters for low breathing resistance and reduced burden, excellent weapons integration and balanced weight distribution.

The M51 variant has been specifically designed for combat vehicle operators. Consisting of the M50 mask in conjunction with a CVC hood for head and neck protection (constructed from Gore Chempak™ barrier technology), a communication lead and hose to integrate with vehicle blowers and COLPRO systems.

Unique Visor Technology

- Unique polyurethane visor is highly flexible plus scratch and impact resistant
- Optically correct across the whole field of view
- Panoramic visor design gives excellent field of vision and wearer recognition while enhancing compatibility with weapon sights
- The Vision Correction System allows prescription lenses to be mounted inside the mask
- Clear outserts for extreme environments
- Sunlight outserts for high intensity light situations
- BlueBlocker outsert delivers sharper images by filtering out specific light wavelengths
- Laser outserts for protection against specific wavelengths

Air Flow Management

- Heat build up minimized
- Low inhalation resistance
- Low re-breathed carbon dioxide
- Excellent de-mist properties
Provides clear communication while wearing mask

Electronic Communication Port (ECP) allows an Audio Amplifier to be safely connected in a CBRN environment to an internal microphone.

Additional communication systems can be attached via this ECP using an appropriate lead.

- Twin filter design significantly reduces breathing resistance and improves weight distribution
- Bayonet fit provides quick and efficient filter attachment
- Filters can be replaced without breaking the protective seal through self-sealing valves
- Conformal filter technology improves integration with equipment
M50 Mask Specifications

<table>
<thead>
<tr>
<th>CBRN Agent Resistance</th>
<th>M50 Performance</th>
<th>Breathing Performance</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mustard (H) Sarin (GB) Soman (GD) VX</td>
<td>Greater than 36 Hrs</td>
<td>Re-breathed CO₂ 0.8%</td>
</tr>
<tr>
<td>Laboratory Protection Factory Performance (Sodium Chloride)</td>
<td>Greater than 10,000</td>
<td>Inhalation Resistance at:</td>
</tr>
<tr>
<td></td>
<td></td>
<td>30 L/Min</td>
</tr>
<tr>
<td></td>
<td></td>
<td>95 L/Min</td>
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<tr>
<td></td>
<td></td>
<td>160 L/Min</td>
</tr>
<tr>
<td></td>
<td></td>
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<tr>
<td></td>
<td></td>
<td>Exhalation Resistance at:</td>
</tr>
<tr>
<td></td>
<td></td>
<td>85 L/Min</td>
</tr>
<tr>
<td></td>
<td></td>
<td>160 L/Min</td>
</tr>
</tbody>
</table>

Weight

M50 mask (including twin filters) 1.9 lbs.

Field of View

Visual Field Score – NIOSH CBRN APR Standard 96

M50 Filter Performance

<table>
<thead>
<tr>
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</thead>
<tbody>
<tr>
<td>“G” Series</td>
<td>Mustard</td>
<td>Hydrogen Cyanide</td>
<td>CS</td>
</tr>
<tr>
<td>“V” Series</td>
<td>Lewisite</td>
<td>Cyanogen Chloride</td>
<td>CN</td>
</tr>
<tr>
<td>Any thickened form of agent</td>
<td>Any thickened form of agent</td>
<td>Chloropicrin</td>
<td>OC (Pepper Spray)</td>
</tr>
</tbody>
</table>

NIOSH CBRN Test Agent Typical Performance NIOSH CBRN Cap 1 Requirement

| | Cyclohexane | >20 mins | 15 mins |
| | Hydrogen Cyanide (AC) | >45 mins | 15 mins |
| | Cyanogen Chloride (CK) | >45 mins | 15 mins |
| | Phosgene | > 100 mins | 15 mins |
| | | | |

M50 Mask Assembly

<table>
<thead>
<tr>
<th>Size</th>
<th>Part Number</th>
<th>NSN</th>
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</thead>
<tbody>
<tr>
<td>Small</td>
<td>71050/3</td>
<td>4240-01-512-4431</td>
</tr>
<tr>
<td>Medium</td>
<td>71050/2</td>
<td>4240-01-512-4434</td>
</tr>
<tr>
<td>Large</td>
<td>71050/1</td>
<td>4240-01-512-4437</td>
</tr>
</tbody>
</table>

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