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

MADE IN AMERICA

M50 mask (including twin filters) 1.9 lbs.

(Sodium Chloride)

Factory Performance

VX

Soman (GD)

Sarin (GB)

M50

Cyanogen Chloride (CK) >45 mins 15 mins

Cyclohexane >20 mins 15 mins

NIOSH CBRN

Test Agent

Phosgene > 100 mins 15 mins

the M50 mask in conjunction with integrate with vehicle blowers and Chempak™ barrier technology, a protection (constructed from Gore a CVC hood for head and neck vehicle operators. Consisting of specifically designed for combat distribution.

integration and balanced weight burden, excellent weapons breathing resistance and reduced twin conformal filters for low streamlined design offers unique industrial materials, toxic chemicals concentrations of CB agents, toxic manufacture of respiratory is a leader in the development of respiratory protective masks used by several branches of the military. General Purpose Mask) has been selected by the U.S. Department to replace existing

M50/JSGPM (Joint Services Chemical, Biological, Radiological and Nuclear (CBRN) applications.

Chemical, Biological, Radiological and Nuclear (CBRN) applications.
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
User Benefits

- Available in 3 sizes
- Chlorobutyl rubber silicone blend giving the mask a high degree of flexibility and comfort for extended use
- Unique twin low profile conformal filters
- Unique head harness eliminates pressure points for a more comfortable fit
- Advanced reflex seal for helmet compatibility
- Extended chin flap for garment compatibility with JSLIST suits
- High flow fail safe drinking device enables connection to a canteen or bladder type system
- Second-skin hood/mask interface allows mask to integrate with the Gore Chempak™ material protective hood
- Minimal replacement parts for simple maintenance

Communications

- 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.

Filtration

- 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)</td>
<td>Greater than 36 Hrs</td>
<td>Re-breathed CO₂ 0.8%</td>
</tr>
<tr>
<td>Sarin (GB)</td>
<td></td>
<td>Inhalation Resistance at:</td>
</tr>
<tr>
<td>Soman (GD)</td>
<td></td>
<td>Mask Only:</td>
</tr>
<tr>
<td>VX</td>
<td></td>
<td>Mask &amp; Filters:</td>
</tr>
<tr>
<td>Laboratory Protection</td>
<td>Greater than 10,000</td>
<td>30 L/Min</td>
</tr>
<tr>
<td>Factory Performance</td>
<td></td>
<td>Mask Only:</td>
</tr>
<tr>
<td>(Sodium Chloride)</td>
<td></td>
<td>2 mm WG</td>
</tr>
</tbody>
</table>

**Inhalation Resistance at:**
- 30 L/Min
- 95 L/Min
- 160 L/Min

**Exhalation Resistance at:**
- 85 L/Min
- 160 L/Min

<table>
<thead>
<tr>
<th>Field of View</th>
</tr>
</thead>
<tbody>
<tr>
<td>Visual Field Score – NIOSH CBRN APR Standard</td>
</tr>
</tbody>
</table>

**Weight**
- M50 mask (including twin filters) 1.9 lbs.

**M50 Filter Performance**

<table>
<thead>
<tr>
<th></th>
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</tr>
</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>

<table>
<thead>
<tr>
<th>NIOSH CBRN Test Agent</th>
<th>Typical Performance</th>
<th>NIOSH CBRN Cap 1 Requirement</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cyclohexane</td>
<td>&gt;20 mins</td>
<td>15 mins</td>
</tr>
<tr>
<td>Hydrogen Cyanide (AC)</td>
<td>&gt;45 mins</td>
<td>15 mins</td>
</tr>
<tr>
<td>Cyanogen Chloride (CK)</td>
<td>&gt;45 mins</td>
<td>15 mins</td>
</tr>
<tr>
<td>Phosgene</td>
<td>&gt;100 mins</td>
<td>15 mins</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>M50 Mask Assembly</th>
</tr>
</thead>
<tbody>
<tr>
<td>Size</td>
</tr>
<tr>
<td>Small</td>
</tr>
<tr>
<td>Medium</td>
</tr>
<tr>
<td>Large</td>
</tr>
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