The Avon C50 protective mask is 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).

The C50 offers high protection, outstanding field of vision and superior comfort. The innovative design features optimize the user’s time in the operational area.

IDEAL FOR:
- Battlefield CBRN protection
- First Responders
- Corrections Officers
- Specialist law enforcement
- Counter terrorism operations

C50 single & twin filter port masks are CE certified for use in a CBRN environment (Article 10 certificate number C11-6401-1)

The C50 twin port mask is NIOSH CBRN Cap 1 approved with the CBRNF128 filter (TC-14G-0285) and NIOSH 42 CFR 84 riot control CS/CN/P100 approved with the CTF12 filter (TC-14G-0278)

The C50 meets the latest NATO military requirements

UNIQUE VISOR TECHNOLOGY

- Polyurethane visor is highly flexible plus scratch and impact resistant and will not yellow over time
- The Vision Correction System allows prescription lenses to be mounted inside the mask
- Optically correct across the whole field of view
- Clear outsers for extreme environments
- Sunlight outsers for high intensity light situations
- BlueBlocker outsert delivers sharper images by filtering out specific light wavelengths
- Panoramic visor design gives excellent field of vision and wearer recognition while enhancing compatibility with weapon sights

AIR FLOW MANAGEMENT

- Heat build up minimized
- Low inhalation resistance
- Excellent de-mist properties
- Common valves for simplicity and lower through-life cost
THE ALL CHALLENGE MASK

USER BENEFITS

- 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.
- Compatibility with helmets, CBRN protective clothing and NFPA Class 3 Suits due to the low profile, close contour brow, flat buckles and extended chin flap.
- Quick donning due to the pre-adjusted buckles.
- 3 sizes providing secure and comfortable fit for all facial shapes and sizes.

HYDRATION

- High flow fail safe drinking device allows connection to either a canteen or bladder type hydration system.

COMMUNICATIONS

- Front mounted exhale valve allows clear direct communication.
- For enhanced communication, an optional Voice Projection Unit (VPU) with internal microphone is easily connected via the Electronic Communication Port (ECP).
- Additional external communication systems can be attached via this ECP using available leads.

FILTRATION

- Filter canisters are side mounted on either left or right side minimizing interference and allowing improved capability for shoulder mounted devices.
- Standard STANAG round thread 40 x 1/7 mm.
- Allows for PAPR devices for improved protection.
### C50 Mask Specifications

<table>
<thead>
<tr>
<th>Filter</th>
<th>Part Number</th>
<th>Classification</th>
<th>Application</th>
</tr>
</thead>
<tbody>
<tr>
<td>CSCF50</td>
<td>72601/71/4</td>
<td>Riot Control</td>
<td>All particulate hazards including dust, fume, bacteria and virus, plus riot agent CS (meets 8 hour NIOSH test standards) and CN (&lt;1 hour NIOSH test standards).</td>
</tr>
<tr>
<td>CTCF50</td>
<td>72606/3</td>
<td>Riot Control</td>
<td>Removal of aerosols, particulate matter, smoke, fumes and vapours. Specifically designed for removal of tear gases including CS, CN and OC pepper spray.</td>
</tr>
<tr>
<td>GPCF50</td>
<td>72601/70/2</td>
<td>NATO CBRN</td>
<td>Chemical, biological and radiological warfare agents in accordance with NATO requirements. Also certain toxic industrial chemicals such as chlorine, hydrogen sulphide, sulphur dioxide and organic vapors, with a boiling point of above 65°C.</td>
</tr>
<tr>
<td>CBRNF12B</td>
<td>71510/1</td>
<td>NIOSH Approved</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>
</tr>
<tr>
<td>CBRNF12CE</td>
<td>70010/23/1</td>
<td>CE Approved</td>
<td>Dual classification for industrial and CBRN applications. All particulate hazards including dust, mist, fume, bacteria and virus plus all vapours including nerve, blood, choking and blister agents and toxic industrial materials.</td>
</tr>
</tbody>
</table>

### C50 Technical Data

<table>
<thead>
<tr>
<th>CBRN Agent Resistance</th>
<th>Requirement</th>
<th>C50 performance</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mustard (H) / Sarin (GB) Soman (GD) / VX</td>
<td>36 hours</td>
<td>Greater than 36 hours</td>
</tr>
<tr>
<td>Laboratory protection factor performance (sodium chloride)</td>
<td>2,000</td>
<td>Greater than 10,000</td>
</tr>
<tr>
<td>Re-breathed CO₂</td>
<td>Less than 1%</td>
<td>0.8%</td>
</tr>
</tbody>
</table>

**Inhalation resistance at:**

- 30 l/min: 5 mm WG, 3 mm WG
- 95 l/min: 15 mm WG, 13 mm WG
- 160 l/min: 25 mm WG, 23 mm WG

**Exhalation resistance at 160 l/min:**

- 30 mm WG, 15 mm WG

**Mask weight:** N/A, 490 grams

**NIOSH Visual Field Score (VFS):** 90, 96

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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 approved TC-14G-0285.

NIOSH approved 42 CFR 84 CS/CN/P100 TC-149-0278.

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The C50 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.

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C50 single & twin filter port masks are CE certified for use in a CBRN environment (Article 10 certificate number C11-6401-1).