

C50

THE NEW GENERATION

DEDICATED TO DEFENCE



AVON
PROTECTION

C50

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The C50, Avon Protection's latest full face mask offers high protection, outstanding field of vision and superior comfort. The innovative design features optimise the user's time in the operational area, whether it's for battlefield CBRN protection, specialist law enforcement or counter terrorism operations. With the appropriate filter the C50 protects against a range of CBRN threats including chemical warfare agents, toxic industrial chemicals (TICS), toxic industrial materials (TIMS), biological and radiological hazards, and riot agents.

C50



CE

UNIQUE VISOR TECHNOLOGY

- Unique polyurethane visor is highly flexible plus scratch and impact resistant
- Fully optically correct across the whole field of view
- Panoramic visor design gives excellent field of vision and wearer recognition whilst greatly 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 minimised
- Low re-breathed carbon dioxide
- Low inhalation resistance
- Excellent de-mist properties

USER COMFORT

- Lightweight with a slim profile – ensures mask is comfortable over long periods in the field
- Quick donning in under 9 seconds due to the pre-adjusted buckles
- 3 sizes providing secure and comfortable fit for all facial shapes and sizes
- Compatibility with helmets and CBRN protective clothing is improved due to the low profile, close contour brow, flat buckles and extended chin flap
- Filter canisters are side mounted on either left or right side minimising interference and allowing improved capability for shoulder mounted devices
- The chloro-butyl/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
- High flow fail safe drinking device, allows connection to either a canteen or bladder type hydration system

COMMUNICATION

- 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 an appropriate lead



SPARES & ACCESSORIES

- Easy to maintain with simple access to key spare components such as valves
- Standard Avon accessories available, such as hydration canteens, Vision Correction System, clear and sunlight outsert lenses and a range of storage and carry bags

CERTIFICATIONS



- 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 CBRNF12B 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

C50 Accessories

VISION



CLEAR OUTSERT
ASSEMBLY



BLUEBLOCKER OUTSERT
ASSEMBLY



SUNLIGHT OUTSERT
ASSEMBLY



LASER OUTSERT
ASSEMBLY



VISION CORRECTION
ASSEMBLY

STORAGE AND CARRIERS



UNIVERSAL CARRIER

MASK HOODS



TACTICAL HOOD

C50 Technical Data

Filter Applications			
Filter	Part Number	Classification	Application
CSCF50	72601/71/4	Riot Control	All particulate hazards including dust, fume, bacteria and virus, plus riot agent CS (meets 8 hour NIOSH test standards) and CN (< 1 hour against NIOSH test standards).
GPCF50	72601/70/2	NATO CBRN	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 vapours, with a boiling point of above 65°C.
CTF12	70010/19/2	NIOSH Approved 42 CFR 84 CS/CN/P100	All particulate hazards including dust, mist, fume, bacteria and virus, plus riot agents, CS/CN/OC and low level organic vapours.
CBRNF12CE	70010/23/1	CE Approved EN14387:04 A1 B2 E1 K1 P3	Dual classification for industrial and CBRN applications. All particulate hazards including dust, mist, fume, bacteria and virus plus all NIOSH specified CBRN gases and vapours including nerve, blood, choking and blister agents and toxic industrial materials.

C50 Single Filter Port Mask	
Description	Part Number
C50 Mask Assembly RH LGE	70501/193
C50 Mask Assembly RH MED	70501/194
C50 Mask Assembly RH SML	70501/195
C50 Mask Assembly LH LGE	70501/199
C50 Mask Assembly LH MED	70501/200
C50 Mask Assembly LH SML	70501/201

C50 Twin Filter Port Mask	
Description	Part Number
C50 Mask Assembly Twinport LGE	70501/576
C50 Mask Assembly Twinport MED	70501/577
C50 Mask Assembly Twinport SML	70501/578

Technical Data		
CBRN Agent Resistance	Requirement	C50 performance
Mustard (H) Sarin (GB) Soman (GD) VX	36 hours	Greater than 36 hours
Laboratory protection factor performance (sodium chloride)	2,000	Greater than 10,000
Re-breathed CO ₂	Less than 1%	0.8%
Inhalation resistance at: 30 l/min 95 l/min 160 l/min	5 mm WG 15 mm WG 25 mm WG	3 mm WG 13 mm WG 23 mm WG
Exhalation resistance at 160 l/min	30 mm WG	15 mm WG
Mask weight	N/A	490 gram
NIOSH Visual Field Score (VFS)	90	96

ALL TECHNICAL DATA FROM INDEPENDENT TESTS. CE CERTIFIED BY TUV RHEINLAND NEDERLAND BV.

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