

FM12

TRIED AND
TRUSTED

CE

AVON
PROTECTION



FM12

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The legendary FM12 mask is the most widely used respirator across the world by military and law enforcement organisations. Providing high levels of respiratory protection against CBRN agents and Toxic Industrial Materials, the FM12 has gained CE and NIOSH CBRN certification.



The FM12 is the standard issue respirator in a variety of countries, including the Netherlands, Norway, Ireland and Denmark. In today's changing world, the increasing threat of terrorist attacks has led to law enforcement agencies requiring CBRN respiratory protection. Due to its pedigree, ease of use and high protection levels, the FM12 now finds itself as an essential part of the armoury of a variety of agencies including the British Police force, Singapore Police, and Chicago Police Department.

FEATURES



USER COMFORT

- 3 sizes ensures best fit for all
- 6 buckle fit allows excellent seal, 4 buckles are pre-adjusted when fitted with 2 being adjustable to allow quick donning and doffing.
- Compatible with weapon sights and other optical devices.
- Flexible contoured face seal ensures compatibility with a variety of helmets and CBRN suits.
- Side mounted filter mount minimises interference – left or right mounting available for tactical specialists.
- High flow fail safe drinking device enables connection to a canteen or bladder type system.
- Internal mask design provides ideal airflow management minimising heat build-up and ensuring low re-breathed carbon dioxide.

EYEPIECES

- Low profile polycarbonate eyepieces
- Optimal light transmission and optical clarity
- Impact and scratch resistant
- Sight correction available

FILTRATION

All filter connections are via the 40mm standard NATO thread.

- Full NIOSH CBRN Cap1 Filter - CBRNF12
- CE approved (technical file) for the widest range of potential chemical, biological and radiological agents CBRNF12CE
- NIOSH approved riot agents filter (CS/CN/P100) – CTF12
- NATO CBRN filter – AMF12

COMMUNICATIONS

- Speech horn allows clear direct communication through exhale valve.
- Secondary speech transmitter (SST) enables use of communications equipment.

CERTIFICATION

Model	Certification
FM12 Twin Port	NIOSH 42CFR84 Riot Control Filter
CBRNFM12 Single Port	NIOSH CBRN APR CAP1 CBRN Filter
CBRNFM12 Single Port	NIOSH 42CFR84 Riot Control Filter
CBRNFM12 Single Port	CE 89/686/EEC Technical File

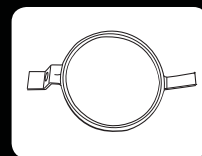
- FM12 with AMF12 filter meets requirements of the NATO respirator Triptych as assessed by TNO Netherlands.

FM12 Accessories

VISION



OUTSERTS



MONOCLES

STORAGE AND CARRIERS



UNIVERSAL CARRIER

HYDRATION



CANTEEN (W/CAP)

PAPR SPARE PARTS



C420 PAPR BLOWER KIT

MASK HOODS



TACTICAL HOOD

FM12 Technical Data

Filter Specifications / Applications			
Filter	Classification	Application	Weight (approx)
CTF12	CS/CN/P100	All particulate hazards including dust, mist, fume, bacteria and virus, plus riot agents, CS/CN/OC and low level organic vapours.	200g
CBRNF12CE	TECHNICAL FILE (89/686/EEC) 1. EN14387:04 Toxic Industrial Materials A1 B2 E1 K1 P3D 2. CBRN (meets NIOSH Cap1) 3. NBC agents (nerve, blood, choking)	Classification for industrial and CBRN applications. All particulate hazards including dust, mist, fume, bacteria and virus plus all NIOSH specified CBRN test agents. NBC agents including nerve, blood, choking and blister agents.	340g
AMF12	NATO NBC	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.	270g

System Technical Data (with CBRNF12 filter)		
Parameter	Requirement	FM12 performance
NIOSH Smartman RLAT system agent performance - HD	Permeation less than 3 mg-min/m ³	Permeation less than 0.1 mg-min/m ³
NIOSH Smartman RLAT system agent performance - GB	Permeation less than 1.05 mg-min/m ³	Permeation less than 0.07 mg-min/m ³
Laboratory protection factor performance (sodium chloride)	Greater than 2,000	Greater than 10,000
Re-breathed CO ₂	Less than 1%	0.76%
Inhalation resistance at 85 l/min (with CBRNF12 canister)	Less than 65 mm WG	Less than 55 mm WG
Weight of canister	Less than 500 gram	Approx 340 gram
Total weight mask and canister	N/A	Approx 790 gram
Field of view (NIOSH Visual Field Score)	Greater than 90	97

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