

# FM12 CBRN Mask

## Proven Comfort & Reliability

Avon Protection is renowned throughout the world for its CBRN respirator products. Our legendary FM12 mask is the most widely used respirator worldwide by military and law enforcement organizations. Providing high levels of respiratory protection against both classical chemical warfare agents and toxic industrial materials, the FM12 has now gained CE and NIOSH CBRN certification, ensuring that it meets state-of-the-art requirements for first responders. The FM12 was originally developed for military NBC operations and is the standard issue

respirator in a variety of countries, including Holland, Ireland and Denmark. However, in today's changing world, the increased threat of terrorist attacks has led to law enforcement and civil defense agencies requiring CBRN respiratory protection. Due to its pedigree, ease-of-use and high protection levels, the FM12 has become an essential piece of equipment for a variety of agencies, including the British Police Force, Singapore Police, and Chicago Police Department.

### Protection

- NATO Standard Protection Factor level: full NBC specification mask.
- Quantitatively determined inward leakage of <0.01%: exceeds NIOSH requirements.
- Protects the face, eyes and gastrointestinal tract against all chemical agents in aerosol, liquid and vapor form.
- Chloro-butyl rubber facepiece is impermeable to all forms of liquid, aerosol or vapor chemicals with over 24 hours protection, exceeding NIOSH requirements.

A variety of high specification approved filter options are available to meet various applications:

- Full CBRN Cap1 filter, NIOSH and CE approved for the widest range of potential chemical, biological and radiological agents – CBRNF12.
- NIOSH approved riot agents filter (CS/CN/P100) – CTF12.
- NATO NBC filter – AMF12 All filter connections are via the 40mm standard NATO thread.

### Certification

- CBRN FM12 and CBRN F12 filters are CE certified to the European PPE Directive 89/686/EEC by TNO Netherlands.
- All combinations are certified with CTF12 and DPF12 filters to NIOSH 42 CFR 84.
- CBRN FM12 is NIOSH CBRN certified with CBRN F12 Cap1 canister.
- Meets requirements of the NATO respirator Triptych as assessed by TNO Netherlands.



### User Comfort

- Three sizes to ensure best fit for all.
- Six buckle fit allows excellent seal. Four are pre-adjusted when fitted, with two being adjustable to allow quick donning and doffing.
- Low profile polycarbonate eyepieces.
- Optimal light transmission and optical clarity.
- Compatible with weapons sights and other optical devices.
- Impact and scratch resistant.
- Flexible contoured face seal is comfortable for extended use.
- Drinking facility is easy to use and the fail-safe system allows user to re-hydrate without contamination, either from a canteen or bladder type system.
- Primary speech module (PSM) allows clear and direct communication in risk areas with unique inverted horn design.
- Secondary speech transmitter (SST) at side port assists with telephone communications.
- Side-mounted canister minimizes interference and left or right mounting is available for tactical specialists.
- Low profile canister range has minimal impact on mask fit and comfort.

**AVON**

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### Breathability

Internal mask design provides ideal airflow management:

- Heat build-up minimized.
- Low re-breathed carbon dioxide.
- Excellent de-mist properties.

### Applications

FM12 provides high levels of respiratory protection in an extremely wide range of operational situations that include:

- NBC protection in high and low intensity conflicts.
- CBRN protection in warm zones following WMD release.
- Suspect package, vehicle or vessel investigation/interdiction.
- Public order and crowd control.
- Decontamination operations including casualty handling and triage.
- Search and Rescue (typically with PAPR powered respirator).
- Drug investigative operations.
- Hostage rescue.
- Prison Services.

### About Avon

In more than 50 countries, frontline military personnel, fire fighters, and law enforcement officers trust Avon for innovative, personal respiratory protection products that are comfortable and easy to use.

Visit [www.avon-protection.com](http://www.avon-protection.com) to see our complete offering of CBRN masks, SCBAs and Thermal Imaging Cameras.



**Trusted in Hazardous Environments**

### Compatibility

FM12 has been designed for compatibility with a wide range of personal issue equipment, including:

- NBC clothing, including breathable and impermeable suits.
- Combat, public order and search and rescue helmets.

### Accessories

Accessories are available to personalize your respirator for your own operational situation:

- Monocles allow lens prescription to be mounted inside the mask.
- Clear outserts for protection from fragmentation impact or use in simunition training.
- Tinted outserts for use in high intensity light situations.
- Canteen with cap allows fail-safe connection to hydration tube and a variety of caps are available for in-service canteens.
- Camelbak® bladder adapter.
- Carriers – basic and tactical.
- Storage bag.
- C420 PAPR powered respirator system for extended duration use.
- Voice projection unit.

### Low Maintenance

- Easy decontamination in accordance with NATO requirements.
- Minimal parts inventory.
- Common exhale and inhale valves.
- Highest quality long-life materials for extended shelf-life.

### 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 vapors 200g.

DPF12 OV/CL/PH//CS/CN/P100

As above, plus organic vapors, acid gases, hydrogen cyanide, nerve agents (eq to C2A1 spec), ammonia, methylamine, phosphine, formaldehyde and sulphur dioxide 315g.

CBRNF12CE 1. EN14387:04

Single use filter for all particulate hazards including dust, mites, fume, bacteria and virus, plus all NIOSH specified CBRN gases and vapors including nerve, blood, choking and blister agents. Plus, toxic industrial materials as defined by NIOSH 340g.

### Avon Protection Systems

503 Eighth Street  
Cadillac, MI 49601

### Avon Protection Systems

922 Hurricane Shoals Road  
Lawrenceville, GA 30043

888-AVON-440

[www.avon-protection.com](http://www.avon-protection.com)