

SCOTT M'95 NBC RESPIRATOR

FOR DEFENCE FORCES AND LAW ENFORCEMENT AGENCIES



tyco / **SCOTT**
HEALTH & SAFETY



IN THE FACE OF HAZARD

M'95 NBC RESPIRATOR

OUTPERFORMS STANDARDS FOR NBC PROTECTION

The Scott M'95 respirator presents the highest standard in modern CBRN protection providing unrivalled reliability, safety and user-friendliness. Designed to meet the most critical hazards and stresses encountered in combat situations, the M'95 gas mask is user preferred.

The M'95 is in service worldwide, e.g. by the National Defence Forces of Finland and several other military forces, first-responder teams, law enforcement personnel, national guards, naval forces and marines.

SCOTT M'95 NBC RESPIRATOR

OUTSTANDING PROTECTION & SAFETY

Precise fit and user comfort are the result of combining 65 years of experience with the most recent innovations in respiratory protection and state-of-the-art design engineering.

SUPERIOR USER COMFORT

The Scott M'95 mask is comfortable to wear, even for long periods of strenuous field operations.

HEAVY-DUTY MATERIALS

The Scott M'95 gas mask features high-grade materials – of paramount importance in extreme field conditions and essential to withstand vital decontamination procedures.

PRACTICAL DESIGN AND CONSTRUCTION

Designed for use under extreme conditions, the design is simple to service and to operate.

HIGH LEVEL COMPATIBILITY

The Scott M'95 respirator is compatible with tactical equipment used in field operations.

EASY MAINTENANCE

Maintenance of the M'95 mask is simple; the vital components are easy to dismantle and reassemble.

**Approvals: NIOSH TC-84A-3847.
Also tested to EN 136 and NATO standards.**



OUTSTANDING PROTECTION & SAFETY

Precise fit and user comfort are the result of advanced computer-aided design. Anatomical accuracy is based on a wealth of facial-form data.

- The superior protection of the halo-butyl elastomer facepiece has been proven with live agent testing; it is impermeable to chemical agents such as sarin and mustard gas.
- Available in two sizes for optimum fit and safety for 100% matching of the population.
- The respirator is easy and rapid to don and doff - in only 10 seconds.
- Scott's extensive range of NBC filters provides protection against all known chemical, biological, radiological and nuclear agents and hazardous particles, like micro-organisms. (See pages 6-7.)

SUPERIOR USER COMFORT

The Scott M'95 mask is comfortable to wear, even over long periods, thanks to its extremely low breathing resistance.

- Light in weight: the mask weighs only 460 g – or 720 g with the filter.
- The special small-size silicone inner mask reduces the **CO₂-content** to a minimum (< 4,5%), thereby eliminating fatigue.
- Moisture drainage is effective due to the practical downward positioning of the exhalation channel.
- Protected speech-diaphragm for optimal telecommunication.
- Polyester webbing band harness enhances wearer comfort and rapid donning.
- Integral drinking tube for the hygienic and convenient intake of liquids, double-threaded connector is compatible with a special M'95 bottle or a PET bottle.



PRACTICAL CONSTRUCTION

- Filter connections on both sides of the facepiece facilitate left- or right-handed operation.
- The six-point head-harness ensures tight fit of the facepiece.
- Collision-proof construction of the mask and connector prevents accidental facial injuries.
- Spectacle frames for prescription lenses are easily secured to the anchor point in the inner mask and remain stable in hostile environments.
- Circulating the inhalation airflow across the inside of the lenses effectively prevents fogging.
- The dual lenses combined with the close-fitting profile of the mask offer an excellent downward and horizontal field of vision - over 80%.
- The two-lens construction means that the mask can be folded in half longitudinally for compact stowage in a mask pouch.



HEAVY-DUTY MATERIALS

The Scott M'95 gas mask features heavy-duty materials for use in extreme situations and to withstand harsh decontamination methods.

- The specially engineered halo-butyl elastomer of the faceblank enhances resistance to known chemical, biological, nuclear and radiological agents.
- The Scott M'95 mask is resistant to high temperatures, steam and ozone; it also provides excellent resistance to a multitude of hazardous chemicals.
- The silicone inner mask provides non-allergic contact with the skin.
- Distortion-free and durable polyamide lenses feature high solidity as well as excellent light transmission.



SCOTT M'95



TECHNICAL DATA FOR THE SCOTT M'95 MASK

TECHNICAL DATA FOR THE SCOTT M'95 MASK	
	Materials
Faceblank	Halo-butyl elastomer
Inner mask	Silicone
Valve discs	Silicone
Lenses	Polyamide
Head harness and support net	Polyester (PES) covered elastane (20 yarn Lycra) elastic, latex free (can be autoclaved). Polyamide (PA) webbing
Spectacle frame	Polyamide (PA)
Bottle	HDPE, protection against NBC agents >48 h
Protection factor	> 10 000
Protection against	
CBRN agents	> 48 h
Breathing resistance	
Inhalation at 30 l/min	< 0.45 mbar
Inhalation at 95 l/min	< 1.0 mbar
Exhalation at 160 l/min	< 1.2 mbar
Carbon dioxide content	< 0.45 %
Field of vision	> 80 %
Intake of liquid	250 ml/min
Temperature range	from -30 °C to + 70 °C
Storage life	20 years
Filter connection	Thread NATO (STANAG 4155/ EN 148), diameter 40 mm
Weight	
Mask	460 g
With filter	720 g

HIGH LEVEL COMPATIBILITY

Thanks to its low-profile design, the Scott M'95 respirator is compatible with tactical equipment used in field operations, e.g. firing and armed systems, target finder optics, optical systems and communication devices, CWA protective clothing, all military helmets on the market and riot shields. Compatibility with NATO-used 40 mm threaded NBC filter canisters.

EASY MAINTENANCE

Maintenance of the M'95 mask is very user-friendly; the exhalation valve is easy to dismantle and reassemble. Valve inspection and replacement can be carried out without tools. Replacement parts are colour-coded to highlight vital components, for smart service and training. The mask is also designed for easy decontamination.



M'95 RESPIRATOR RC FOR LAW ENFORCEMENT PERSONNEL

012583 Full face mask M'95 RC,
without drinking device and speech diaphragm

The M'95 RC mask is designed for use by the police, armed services and civil defence forces in law enforcement situations. The halo-butyl faceblank offers resistance to CBWA threat chemicals and particulates as well as riot control agents.

The low breathing-resistance and light weight of the respirator provide ideal wearer comfort.

The streamlined design features compatibility, with visored helmets and protective shields.



SCOTT M'95

ORDERING DETAILS

- 012581 NBC Mask M'95 M, standard size, with drinking device
- 012585 NBC Mask M'95 S, small size, with drinking device
- 012584 NBC Mask M'95 S, standard size, with speech diaphragm, drinking device and bottle

Please note that delivery of M'95 masks is subject to approval of the end user by the Finnish Ministry of Defence. An end-user certificate is needed from the final user of the equipment.

ACCESSORIES

- 012551 Spectacle kit
- 012549 Drinking device lid on the mask
- 012547 Mouth piece of drinking device
- 012552 Bottle
- 012561 Bottle cap
- 012565 Speech diaphragm
- 010185 Hard plastic carrying case
- 012595 Carrying bag for mask and filter
- 141080 Protester leak test apparatus



Easy-to-use accessories: carrying bag, plastic case, drinking bottle, spectacle kit and leakage testing equipment.



Optical insert for prescription lenses made from durable polyamide.



Tactical carrying bag for gas mask and 1-2 filters. Size (h x d x b) 26 x 14 x 20 cm. The bag is made from polyurethane (PU) coated polyamide (PA) cloth. Velcro fastening tapes. Polyamide texture carrying strap. Can be carried either as a shoulder bag at the waist as a belt bag.



The Protester leak test device provides a simple and reliable means of testing the leak-tightness of full face masks. Negative pressure builds up when the face piece is closely mounted on the test head.



The drinking bottle has 1 litre capacity. Made from CBWA-resistant HD polyethylene. The bottle cap has a suspension strap to the bottle; it is also equipped with a hook catch for belt mounting.



Polyethylene (HDPE) stowage box for mask and filter. Size 25 x 14 x 17,5 cm. Cotton strap.

NBC FILTERS

SCOTT FILTERS FOR NBC PROTECTION

An extensive range of Scott NBC, civil defence and industrial filter canisters is available for use with the M'95. The filters, which are approved to EN, NIOSH or NATO standards, feature high chemisorption and physisorption capacity and low breathing resistance. Scott 40 mm CBRN canisters are designed to protect in Non-IDLH and oxygen-deficient conditions against known threat agents as well as a multitude of other hazardous gases, vapours and particulates.

Scott NBC filters protect against:

All known chemical and biological warfare agents like mustard gas, cyanogen, arsine and phosgene; sarin and other nerve gases; riot control gases like CN, CS, radioactive and highly toxic particles; aerosols and micro-organisms; bacteria and viruses; as well as many toxic industrial gases and vapours (according to EN14387: 2004 type ABE-P3), e.g. organic gases and vapours, such as chlorine, hydrogen cyanide, hydrogen sulphide, sulphur dioxide and other acidic gases and vapours.

042570 NBC 22 A2B2E1-P3

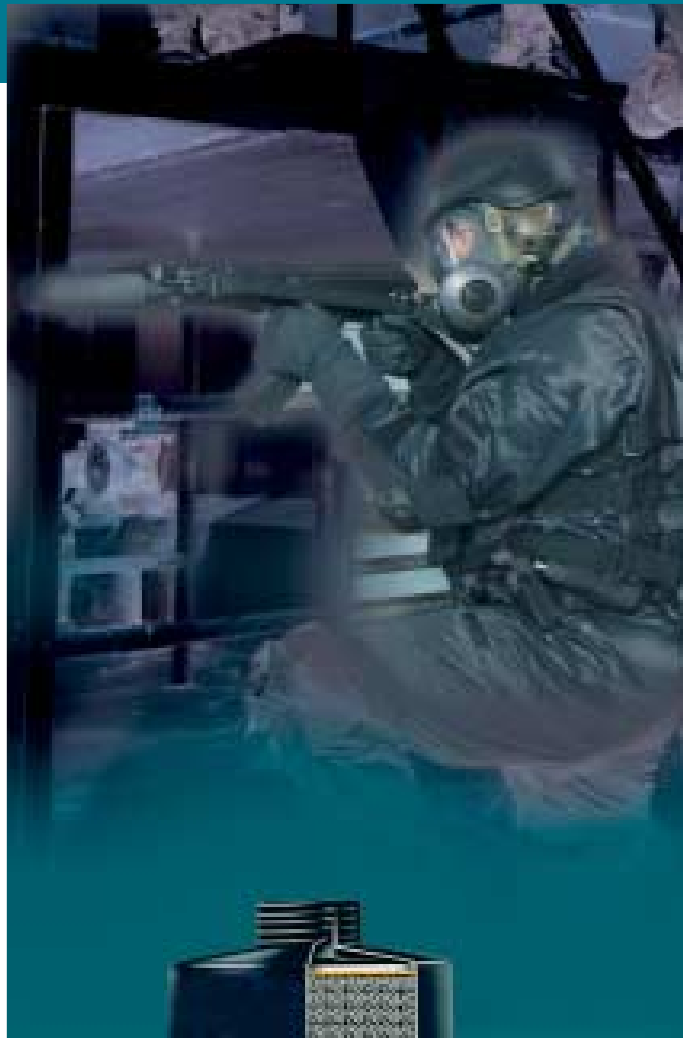
Protects against CBRN and riot control agents; organic, inorganic and acid gases and vapours; toxic and radioactive particles; bacteria and viruses.

042568 CF 32 A2B2E2K2-P3 NBC

Protects against CBRN and riot control agents; organic, inorganic and acid gases and vapours; ammonia and organic ammonia derivatives; toxic and radioactive particles; bacteria and viruses.

Certified to EN 14387:2004 and 143. CE 0121.

Filters certified to NIOSH/USA standards available.



Ordering details:

- 042570 CF 22 NBC A2B2E1-P3 (storage life 10 years factory sealed, both ends plugged, plastic bag)
- 042568 NBC filter type CF 32 A2B2E2K2-P3 (storage life 10 years factory sealed, aluminium foil package)
- 045125 NBC 2200 POLICE CN/CS FILTER

NBC 2200 POLICE CN/CS FILTER

Protects against riot control agents, e.g. tear gas, CN, CS; against organic, inorganic and acid gases and vapours; ammonia and organic ammonia derivatives; highly toxic and radioactive solid and liquid particles, bacteria and viruses. Ideal for RIOT Control & SWAT operations as well as Domestic Preparedness operations, the NBC 2200 makes sense in today's changing world.

The NBC 2200 Police Canister is chromium free and meets unique USA specifications designed for first responders concerned with Riot control, Toxic chemicals, Chemical Warfare Agents and Nuclear hazards



NBC FILTERS

TECHNICAL DATA FOR NBC 22 A2B2E1-P3 FILTER

Dimensions	
Weight	260 g
Height	90 mm
Diameter	110 mm
Volume	220 ml
Opening diameter	55 mm
Thread	40 mm NATO STANAG 4155/EN 148-1
Filter performance	
Particle filter efficiency:	
DOP at 30 l/min	< 0.0003 %
Paraffin oil at 95 l/min	< 0.003 %
NaCl at 95 l/min	< 0.001 %
Gas filter capacity:	
Tetrachloromethane CCl ₄ (0,5 vol%)	52 min
Chlorine Cl ₂ (0,5 vol%)	23 min
Hydrogen sulphide H ₂ S (0,5 vol%)	>120 min
Hydrogen cyanide HCN (0,5 vol%)	57 min
Sulphur dioxide SO ₂ (0,5 vol%)	40 min
Breathing resistance	
At 30 l/min	< 1.3 mbar
At 95 l/min	< 4.5 mbar
Other data	
Casing	Polyamide, reinforced
Both ends plugged	PE plug and PP cork (threaded)
Storage time	10 years (factory sealed)
Storage temperature	-10 °C ... +50 °C (factory sealed)
Storage humidity	Below 95% RH



CF 22 NBC filter cap and plug.



Foil package.
(Scott reserves right for other foil colours).



Choosing the proper type of respiratory protection depends on the conditions under which it is to be used and is strictly specified by local authorities, whose directions must be followed.

SELECTION OF PROTECTION

There are three main types of respiratory protection used in the face of different hazards:

- **Self-contained breathing apparatus**
- **Negative pressure filtering devices (cartridge respirators)**
- **Powered and power-assisted filtering devices (powered air purifying respirators)**

SELFCONTAINED BREATHING APPARATUS

SCBA supplies clean air to the user independent of the surrounding atmosphere. Breathing Apparatus is needed when the nature of the hazard has not been quantified (agent type, concentration) or the air is oxygen-deficient.

- Scott breathing apparatus are designed for extreme operations in fire fighting, first-responder and SWAT operations. **Scott Sabre and Air-Pak Fifty** units constitute leading-edge defence against the threats of today's world.



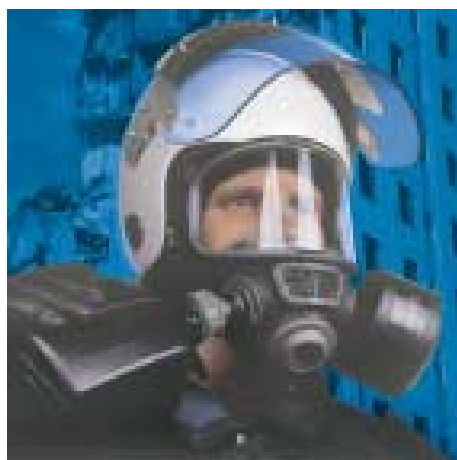
POWERED RESPIRATORS



Other filtering devices, like a powered respirator with a full hood, offer a reliable solution to respiratory protection for rescue teams during decontamination and cleansing operations when contaminants have been identified and measured; this type of respirator is appropriate to remove the contaminants.

- **Scott Proflow SC and Tornado T-Power** powered air-purifying respirators make sense for civil defence by providing cool air through a fanning effect, extending user wear times.

A NEGATIVE PRESSURE FILTERING DEVICE



Gas mask with a CBRN filter can be used when the type and atmospheric concentrations of substances have been identified and the oxygen content of the air is sufficient (18-23 vol%).

- **Scott M'95 and M'98** are protective masks for the armed services, law enforcement and civil defence authorities for protection against CBRN agents.

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