3M™ Scott™ M95 Respirator

Product description

The 3M™ Scott™ M95 Respirator, with its NATO (STANAG 4155) compliant 40mm thread, meets the requirements of the European Standard EN136:1998+A1:2003, and BS8468-2:2006+A1:2007. The 3M™ Scott™ M95 Respirator provides respiratory protection for use in environments where operatives will be exposed to hazardous gases, liquids and particles.

Applications

The 3M™ Scott™ M95 Respirator is suitable for Defence, Security, Public Order and First Responder applications, protecting against Toxic Industrial Chemicals (TIC) and Chemical, Biological, Radiological and Nuclear (CBRN) warfare agents, including gases and vapours from organic compounds with a boiling point above 65°C Inorganic gases and vapours, e.g. Chlorine, Hydrogen Sulphide and Hydrogen Cyanide. Acid gases and vapours, e.g. Sulphur Dioxide Ammonia and organic ammonia derivatives Other gases and vapours: Phosphine, Formaldehyde, CN, CS, Cyanogen Chloride and Chloropicrin. Solid and liquid toxic and radioactive particulates and micro-organisms, e.g. bacteria and viruses. Respiratory protection is only effective if it is correctly selected, fitted and worn throughout the time when the wearer is exposed to hazards.

Product

The 3M™ Scott™ M95 Respirator is available in the following part number.

Part Number	Description	NATO Stock Number
5012581	*NBC Respirator M 95 M/L, standard size, with drinking device*	*4240-26-300-1600*
5012585	*NBC Respirator M 95 S, small size, with drinking device*	*N/A*
5012584	*NBC Respirator M 95 M/L, standard size, with speech diaphragm, drinking device and bottle*	*N/A*
5012583	*Respirator NBC 95 RIOT M/L, standard size, without drinking port*	*N/A*

Technical Features

- Filter Body Style - DIN40mm Thread (STANAG4155)
- Shelf Life 12 years (factory sealed, plastic bag). *The shelf life as defined above remains an indicative and maximum data, subject to many external and non-controllable factors. It may never be interpreted as a warranty.*

The 3M™ Scott™ M95 Respirator is simple to use and comfortable for the wearer. DIN40 connections on both sides of the facepiece facilitate left- or right-handed operation. The DIN40 inhalation ports are designed for use with approved DIN Thread Filter Canisters. The main features include:

- Reusable, low maintenance respirator
- Soft silicone face seal for comfort during long periods of work.
- Wide field of vision with a scratch and chemical resistant polyamide lens.
- Easy and secure fitting.
- Adjustable 6-point head harness with elastic straps located at the forehead, temples, and cheeks comes together at a rectangular head pad.
- Inner mask is equipped with peripheral sealing edge to reduce dead space
- Moisture drainage is enabled due to the practical downward positioning of the exhalation channel.
- Tube free drinking system double-threaded connector is compatible with M 95 Canteen or Camelbak™ (S Type) Adapter.

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CBRN & TIC TESTING

- Breathing Resistance

The breathing resistance of the 3M™ M95 respirator is tested during inhalation (continuous flow) and exhalation (cyclical flow). The breathing resistance of the respirator shall not exceed the following limits:

Inhalation Resistance	3M™ Scott™ M95 Respirator	EN136 Requirement
@ 30 L/min	<0.5 mbar	<0.5 mbar
@95 L/min	<1.5 mbar	<1.5 mbar

Exhalation Resistance	3M™ Scott™ M95 Respirator	EN136 Requirement
@ 160 L/min	<3.0 mbar	<3.0 mbar

Parameter	3M™ Scott™ M95 Respirator	EN136 Requirement
CO_2 Content	<1.0%	<1.0%
Field of Vision	>70%	>70%
Hydration Rate	N/A	N/A
Total leakage	<0.05%	0.05%

Tested at BSI (Report Number 8794790) and *Research Centre of the Finnish Defence Forces (Technical Evaluation 318/Da), the 3M™ Scott™ M95 Respirator also meets the requirements of the European Standard EN136:1998+A1:2003. The values above are the result of illustrative lab test measures and shall not be considered as a commitment from 3M.

Chemical Warfare Agents

The specially engineered *"Pro-Comp"* halo-butyl elastomer of the facepiece has enhanced resistance to known CBRN agents. For example, the 3M™ Scott™ M95 Respirator has been tested at TNO (TNO Report PML 1998-C79) against liquid sulfur mustard (HD) and lewisite (L). The values below are the result of illustrative lab test measures and shall not be considered as a commitment from 3M.

Test Agent	Breakthrough Time (Hours) - M95
HD	>24
Lewisite	>24

The 3M™ M95 Respirator has also been SMARTAN tested against Sarin (GB) and Sulfur Mustard agent (HD), when used in conjunction with the 3M™ Scott™ CFR32 CBRN A2B2E2K2-P3 R (P/N 5543689) or CFR32 CBRN A2B2E2K2-P3 R (P/N 5045155) filters, according to BS8468-2:2006+A1:2007. Tested at ProQares (Report Number 64052-62239) the 3M™ M95 Respirator, when used in conjunction with the above filters meets and is certified (Report Number 696728) to the requirements of European Standard BS8468-2:2006+ A1:2007.

Test Agent	Breakthrough Time (Mins) - ProComp
HD	Pass
GB	Pass

Material

The following materials are used in the production of the 3M™ Scott™ M95 Respirator:

Component	Material
Mask	Halo butyl elastomer compound; Butyl IIR, EPDM and NR
Inner mask	Silicone
Lenses	Polyamide PA 12
Lens frames	Polyamide PA 6.6
Connector and exhalation channel body	Polyamide (PA) reinforced
Inhalation channel body	Polyamide (PA)
Check valve seat (of inner mask)	Polypropylene (PP)
Head harness	Polyester webbing + Lycra
Harness buckles	Polyamide (PA)
Valve discs	Silicone LSR
Valve seat of inhalation valve	EPDM
Drinking tube	Silicone LSR
Filter thread connector	Polyamide PA
Exhalation channel cover	Polyamide PA
Drinking bottle	HDPE
Spectacle frame	Polyamide

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Weight

The 3M™ Scott™ M95 Respirator weighs 460g.

Disposal

Contaminated products should be disposed as hazardous waste in accordance with national regulations.

Carriage

Tactical carrying bag for respirator 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. Hook and loop fastening tapes. Polyamide texture carrying strap. Can be carried either as a shoulder bag at the waist as a belt bag. Alternative carrier is the Polyethylene (HDPE) stowage box for mask and filter. Size 25 x 14 x 17.5 cm. Cotton strap.

Cleaning and Storage

- **Respirator**

Remove the filter, valves/discs, drinking device, spectacle frame, speech diaphragm and inner mask. Clean the facepiece and components with a damp cloth or sponge, using lukewarm water and mild detergent (neutral, pH 6-8) (e.g. washing-up liquid). A brush can be used for stubborn dirt (be careful not to scratch the lenses). Do not use solvents (e.g. alcohol, acetone, turpentine), hot water or bleaching agents (perborate, percarbonate).

- **Drinking device**

Remove the mouth piece and wash it separately. Put water in a bottle. Connect the bottle to the drinking device. Squeeze the bottle and let water pass through the drinking device. Replace the mouth piece when the respirator is given to another user.

- Storage

The respirator should be stored carefully cleaned, disinfected and ready for use. Keep the respirator protected from sunlight, grease and oil. The store should be dry and cool. A properly stored, unused respirator (factory sealed, plastic bag) has a shelf life of 12 years. Before use, the respirator must undergo a user seal check. After use, an opened filter must be sealed tightly if it is to be reused, but it must be replaced within 6 months at the latest.

Fitting Instructions

Before assigning any respirator to be worn in a contaminated area, we recommend that a qualitative or quantitative fit testing be performed before entering the contaminated area. Fitting instructions must be followed each time the respirator is worn.

1. Fully loosen all six head straps, and then place the harness over the back of the head and position respirator over the face.

2. Pull the ends of the six straps to adjust tightness. Check that the chin is in the chin pocket. Tighten the straps. Start with neck straps, pull backwards (not outwards). Then adjust the temple straps and finally the upper strap. The cradle/net lies centred on the back of the head.

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3. Once the harness has been secured. Cover the exhalation opening of the respirator with your hand. Exhale gently to create overpressure. There must be no leakage between the face and the face seal.

4. Cover the filter opening with your hand. Inhale to make the respirator press onto your face. If you fail to get a tight fit (i.e., experience potential leakage), adjust the head harness and filter, or use another size of the respirator.

Storage temperature

The 3M™ Scott™ M95 Respirator has a storage operating profile of -10 °C to + 50 °C (factory sealed)

Approvals

Assembled in UK, in an ISO9001:2015, ISO14001:2015 and latest ISO18001:2007 certified plant. The 3M™ Scott™ M95 Respirator was tested to and is certified to Class 3 of the European Standard EN136:1998+A1:2003 (CE Certificate Number 680230). The 3M™ Scott™ M95 Respirator is also CE approved as an APR (Air Purifying Respirator) system (Respirator + Canister) when used with either the CFR32 CBRN A2B2E2K2-P3 R (P/N 5543689) or CFR32 CBRN A2B2E2K2-P3 R (P/N 5045155) filters (CE Certificate Number -TBC) according to BS8468-2:2006+A1:2007.

Spare Parts

Part Number	Description	NATO Stock Number
5012551	Spectacle kit	4240-26-300-1583
5012549	Drinking device lid on the respirator	4240-26-300-1577
5012547	Mouth piece of drinking device	4240-26-300-1576
5012593	Bottle complete with cap	N/A
5012561	Bottle cap (bottle not included)	4240-26-300-1580
5012565	Speech diaphragm	4240-26-300-1582
5510185	Hard plastic carrying case	N/A
5012595	Green carrying bag for respirator and filter	N/A
5141080	Protester apparatus	N/A

Filters

Part Number	Description	NATO Stock Number
5045155	CFR32 CBRN A2B2E2K2-P3 R	4240-99-849-7088
5543689	CFR32 CBRN A2B2E2K2-P3 R	4240-52-000-6161
5543699	CFR32 CBRN A2B2E2K2-P3 R	N/A
5045125	CFR22 NBC2200 A1P3	N/A
7001160	CFR22 NATO N40 P3	4240-99-598-8372

This document is subject to Export Control regulations.

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WARNINGS and USE Limitations

1. These respirators do not supply oxygen. Do not use in oxygen deficient areas. *
2. Do not misuse, alter, modify or repair this product.
3. Do not use with beards or other facial hair that prevent direct contact between the face and the edge of the respirator.
4. Leave the contaminated area immediately and check the integrity of the respirator and replace the respirator if:
    - Damage has occurred or is apparent.
    - Breathing becomes difficult or increased breathing resistance occurs.
    - Dizziness or other distress occurs.
    - You taste or smell the contaminant, or an irritation occurs.
5. Store this device in a sealed container away from contaminated areas when not in use.
6. Use strictly in accordance with respirator and filter user instruction leaflet.

* 3M definition minimum 19.5% by volume oxygen

Important notice

The use of the 3M product described within this document assumes that the user has previous experience of this type of product and that it will be used by a competent professional. Before any use of this product it is recommended to complete some trials to validate the performance of the product within its expected application.

All information and specification details contained within this document are inherent to this specific 3M product and would not be applied to other products or environment. Any action or usage of this product made in violation of this document is at the risk of the user. Compliance to the information and specification relative to the 3M product contained within this document does not exempt the user from compliance with additional guidelines (safety rules, procedures).

Compliance to operational requirements especially in respect to the environment and usage of tools with this product must be observed. The 3M group (which cannot verify or control those elements) would not be held responsible for the consequences of any violation of these rules which remain external to its decision and control.

Warranty conditions for 3M products are determined with the sales contract documents and with the mandatory and applicable clause, excluding any other warranty or compensation.

The export of the goods described herein may be subject to export controls including but not limited to EU, UK & US export control laws and regulations. The guidance provided is correct to the best of our knowledge at the time of printing however, the exporter is responsible for compliance with all applicable export laws and regulations and should make their own determination prior to transfer, should you require further information please contact 3M Trade Compliance.

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