



3M™ Scott™ CFR32 CBRN A2B2E2K2-P3 RD FILTER (LIC2)

Product description

The 3M™ Scott™ CFR32 CBRN A2B2E2K2-P3 RD Filter, with its EN148-1 compliant 40mm thread, is designed for use with the following 3M Defence and Public Safety Respirators; -

- 3M Scott General Service Respirator – Evolution Specialist – (GSReS) – DIN40mm thread mode only
- 3M Scott First Responder Respirator – (FRR)
- 3M Scott M95 Respirator
- 3M Scott M05 Respirator
- 3M Scott M98 Respirator



Applications

The 3M™ Scott™ CFR32 CBRN A2B2E2K2-P3 RD Filter is suitable for Military 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, Cyanogen Chloride, Chloropicrin and CN/CS. Solid and liquid toxic and radioactive particulates and micro-organisms, e.g. bacteria and viruses.

Product

The 3M™ Scott™ CFR32 CBRN A2B2E2K2-P3 RD Filter is available in the following part number.

Part Number	NATO Stock Number	Pack Size
5543689	N/A	10

Technical Features

- Filter Body Style - DIN40mm Thread (EN148-1)
- Shelf Life 10 years (factory sealed, aluminium foil bag). *The shelf life as defined above remains a indicative and maximum data, subject to many external and non-controllable factors. It may never be interpreted as a warranty.*

CBRN & TIC TESTING

- Breathing Resistance

The values below are the result of illustrative lab test measures and shall not be considered as a commitment from 3M

Breathing Resistance	3M™ Scott™ CFR32 CBRN A2B2E2K2-P3 RD Result	EN14387 Requirement
@ 30 L/min	<2.6 mbar	max 2.6 mbar
@ 95 L/min	<9.8 mbar	max 9.8 mbar

- Particulate Efficacy

The values below are the result of illustrative lab test measures and shall not be considered as a commitment from 3M

Particle filter efficiency @ 95 L / min	3M™ Scott™ CFR32 CBRN A2B2E2K2-P3 RD Result	EN14387 Requirement
Sodium chloride NaCl (Sol)	<0.05 %	0.05 %
Paraffin Oil (Liq)	<0.05 %	0.05 %

Tested at Proqares (Report Number 62662-67347) the 3M™ Scott™ CFR32 CBRN A2B2E2K2-P3 RD filter meets the requirements of gas adsorption capacity according to class A2B2E2K2 – P3RD of European Standard EN14387 after mechanical preconditioning as required in the standard. The values below are the result of illustrative lab test measures and shall not be considered as a commitment from 3M.

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Minimum breakthrough @ 30 L/min.	Test Conc ⁿ (Vol %)	3M™ Scott™ CFR32 CBRN A2B2E2K2-P3 RD Result	EN14387 Requirement
Ammonia (NH ₃)	0.5%	>40 mins	40 mins
Chlorine (Cl ₂)	0.5%	>20 mins	20 mins
Cyclohexane C ₆ H ₁₂	0.5%	>35 mins	35 mins
Hydrogen Cyanide (HCN)	0.5%	>25 mins	25 mins
Hydrogen Sulphide (H ₂ S)	0.5%	>40 mins	40 mins
Sulphur Dioxide (SO ₂)	0.5%	>20 mins	20 mins

Tested at ProQares (Report Number 10343) the 3M™ Scott™ CFR32 CBRN A2B2E2K2-P3 RD filter also meets the requirements of gas adsorption capacity according BS8468-2 for the toxic industrial chemicals, Phosphine, Nitrogen Dioxide and Formaldehyde. The values below are the result of illustrative lab test measures and shall not be considered as a commitment from 3M.

Minimum breakthrough @ 30 L/min.	Test Conc ⁿ (ppm)	3M™ Scott™ CFR32 CBRN A2B2E2K2-P3 RD Result	BS8468-2 Requirement (minimum)
Phosphine	250	>15 mins	15 mins
Nitrogen Dioxide	200	>15 mins	15 mins
Formaldehyde	500	>15 mins	15 mins

Chemical Warfare Agents

Tested at Finnish Defence Forces Technical Research Centre (Report Number 08/473/D/I) the CFR32 CBRN A2B2E2K2-P3 RD filter has also been evaluated against the requirements according to the NATO triptych AEP73 for filter canisters for Cyanogen Chloride and Chloropicrin adsorption. The CFR32 CBRN A2B2E2K2-P3 RD filter meet the requirements for the adsorption capacity of Chloropicrin and Cyanogen Chloride as stated in the NATO triptych AEP73. The values above are the result of illustrative lab test measures and shall not be considered as a commitment from 3M

Minimum breakthrough @ 30 L/min.	Test Conc ⁿ (ppm)	3M™ Scott™ CFR32 CBRN A2B2E2K2-P3 RD Result
Cyanogen Chloride (CK)	AEP73	158 mins
Chloropicrin (PS)	AEP73	87 mins

The 3M™ Scott™ CFR32 CBRN A2B2E2K2-P3 RD filter has been SMARTAN tested with Sarin (GB) and Sulfur Mustard agent (HD) on a range of selected APR (Air Purifying Respirator) systems (M95 and M98 + Canister) from 3M / Scott Safety according to BS8468-2:2006+A1:2007. Tested at ProQares the CFR32 CBRN A2B2E2K2-P3 RD filter, when used in conjunction with the 3M™ Scott™, 3M™ Scott™ M95 (Report Number 62239) or 3M™ Scott™ M98 (Report Number 61196) Respirator meets and is certified to the requirements of European Standard BS8468-2:2006+A1:2007. 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 (Mins) - M95	Breakthrough Time (Mins) - M98
HD	>480	>480
GB	>480	>480

Dimensions

The 3M™ Scott™ CFR32 CBRN A2B2E2K2-P3 RD Filter has the following dimensions: - 105 mm (height) x 110mm (diameter)

Material

The 3M™ Scott™ CFR32 CBRN A2B2E2K2-P3 RD Filter is made from reinforced polyamide.

Weight

The 3M™ Scott™ CFR32 CBRN A2B2E2K2-P3 RD Filter weighs 387g. (EN14387:2004 requirement max 500g)

Disposal

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

Storage temperature

The 3M™ Scott™ CFR32 CBRN A2B2E2K2-P3 RD filter has a storage operating profile of -10 to + 50 °C (factory sealed)

Approvals

Assembled in UK, in an ISO9001:2015, ISO14001:2015 and latest ISO18001:2007 certified plant. The 3M™ Scott™ CFR32 CBRN A2B2E2K2-P3 RD filter was tested to and is certified to class A2B2E2K2 – P3 RD of the European Standard EN14387:2004+A1:2008 (CE Certificate Number 698955).

3M™ Scott™ CFR32 CBRN A2B2E2K2-P3 RD FILTER

The 3M™ Scott™ CFR32 CBRN A2B2E2K2-P3 RD filter is also CE approved as a APR (Air Purifying Respirator) system (Respirator + Canister) when used with the M95 (CE

Certificate Number 696728) and M98 (CE Certificate Number 696729), according to BS8468-2:2006+A1:2007.

WARNINGS

Filters may not seal with other products leading to serious injury or death. • Respirator filters must be selected by a trained and competent person following a suitable and sufficient risk assessment. • Filters must be used in accordance with appropriate guidelines, regulations or doctrine applied in line with the national legislation of the country of application, inappropriate use could result in injury or death. • Filters must be stored in accordance with 3M guidance notes. • The competent person or commanding officer incident must establish a filter change schedule based on a suitable and sufficient risk assessment. Failure to do so may result in filter breakthrough and consequent injury or death. Contact 3M for assistance. • Filtering respirators are NEVER to be used in oxygen deficient atmospheres (<19.5%) or in poorly ventilated spaces.

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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