

Product description

The 3M™ Scott™ CFR32 CBRN A2B2E2K2-CLASS15 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-CLASS15 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: Chlorine Dioxide, Formaldehyde, Hydrogen Chlorine, Hydrogen Fluoride, Methylamine, 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-CLASS15 P3 RD Filter is available in the following part number.

Part Number	NATO Stock Number	Pack Size
5045155	4240-99-849-7088	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 an indicative and maximum data, subject to many external and noncontrollable 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- CLASS 15 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- CLASS 15 P3 RD Result	EN14387 Requirement
Sodium chloride NaCl (Sol)	<0.05%	0.05%
Paraffin Oil (Liq)	<0.05 %	0.05 %

Tested at Proques (Report Number 74692-74449) the 3M[™] Scott[™] CFR32 CBRN A2B2E2K2-CLASS 15 P3 RD filter meets the requirements of gas adsorption capacity according to class A2B2E2K2 – P3R 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.

Test Gas	Test Conc ⁿ (Vol %)	3M™ Scott™ CFR32 CBRN A2B2E2K2- CLASS 15 P3 RD Result	EN14387 Requirement
Ammonia (NH₃)	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 Proques (Report Number 79207-84113) the 3M™ Scott™ CFR32 CBRN A2B2E2K2-CLASS 15 P3 RD filter meets the requirements of gas adsorption capacity according to class 15 of British Standard BS8468-2:2006 +A1:2007 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.

Test Gas	Test Conc ⁿ (ppm)	3M™ Scott™ CFR32 CBRN A2B2E2K2- CLASS 15 P3 RD Result	BS8468-2 Requirement
Ammonia (NH₃)	2500	>15 mins	15 mins
Cyanogen Chloride (CK)	300	>15 mins	15 mins
Cyclohexane C ₆ H ₁₂	2600	>15 mins	15 mins
Formaldehyde	500	>15 mins	15 mins
Hydrogen Cyanide (HCN)	940	>15 mins	15 mins
Hydrogen Sulphide (H ₂ S)	1000	>15 mins	15 mins
Nitrogen dioxide (NO ₂)*	200	>15 mins	15 mins
Phosgene	250	>15 mins	15 mins
Phosphine	300	>15 mins	15 mins
Sulphur Dioxide (SO ₂)	1500	>15 mins	15 mins

*N02 breakthrough is monitored for both N02 and NO. The breakthrough is determined by which quantity, NO2 or NO reaches breakthrough first.

Chemical Warfare Agents

The 3M™ Scott™ CFR32 CBRN A2B2E2K2-CLASS 15 P3 RD filter has been SMARTMAN tested with Sarin (GB) and Sulfur Mustard agent (HD) on a range of selected APR (Air Purifying Respirator) system (FRR, M95 and M98 + Canister) from 3M / Scott Safety according to BS8468-2:2006+A1:2007. Tested at ProQares (Report Number 64964) the CBRN A2B2E2K2-CLASS 15 P3 RD is certified to the requirements according to the BS8468-2:2006+A1:2007 for filter test conditions: Temperature 25°C, flow rate 40 l/min at the 50 % RH to give the following results. 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) - FRR	Breakthrough Time (Mins) - M95	Breakthrough Time (Mins) - M98
HD	Pass	Pass	Pass
GB	Pass	Pass	Pass

Tested at ProQares the CFR32 CBRN A2B2E2K2-CLASS 15 P3 RD filter, when used in conjunction with the 3M[™] Scott[™] FRR (Report Number 4853), 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 above are the result of illustrative lab test measures and shall not be considered as a commitment from 3M

Dimensions

The 3M[™] Scott[™] CFR32 CBRN A2B2E2K2-CLASS 15 P3 RD Filter has the following dimensions: - 105 mm (height) x 110mm (diameter)

Material

The 3M[™] Scott[™] CFR32 CBRN A2B2E2K2-CLASS 15 P3 RD Filter is made from reinforced polyamide.

Weight

The 3M[™] Scott[™] CFR32 CBRN A2B2E2K2-CLASS 15 P3 RD Filter weighs 400g. (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-CLASS 15 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-CLASS 15 P3 RD filter was tested to and is certified to class A2B2E2K2 − P3 R of the European Standard EN14387:2004+A1:2008 (CE Certificate Number 698955). The 3M™ Scott™ CFR32 CBRN A2B2E2K2-CLASS 15 P3 RD filter is also CE approved as a APR (Air Purifying Respirator) system (Respirator + Canister) when used with the FRR (CE Certificate Number 690352), the M95 (CE Certificate Number 696728) and M98 (CE Certificate Number 696729), according to BS8468-2:2006+A1:2007

WARNINGS

Respirators help protect against certain airborne contaminants. Before use, the wearer must read and understand the User Instructions provided as a part of the product packaging. Follow all local regulations. Misuse may result in sickness or death. For correct use, consult supervisor and User Instructions, or contact 3M Personal Safety Division (PSD).

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.

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Warranty, Limited Remedy, and Disclaimer: Unless a different warranty is specifically stated on the applicable 3M product

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