



# 3M™ Scott™ CFR22 NBC 2200 A1 P3 RD FILTER

## Product description

The 3M™ Scott™ CFR22 NBC 2200 A1P3 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™ CFR22 NBC 2200 A1P3 RD Filter is suitable for Riot Control, Public Order and Security applications, helping to protect against tear gas, o-Chlorobenzyl-ideine malononitrile (CS), α-chloroacetophenone (CN), Toxic Industrial Chemicals (TIC), 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; Solid and liquid toxic and radioactive particulates and micro-organisms, e.g. bacteria and viruses.

## Product

The 3M™ Scott™ CFR22 NBC 2200 A1P3 RD Filter is available in the following part number.

Part Number	NATO Stock Number	Pack Size
5045125	N/A	20

## Technical Features

- Filter Body Style - DIN40mm Thread (EN148-1)
- Shelf Life 5 years (factory sealed, plastic packaging). *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.*



## RIOT CONTROL & 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™ CFR22 NBC 2200 A1P3 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™ CFR22 NBC 2200 A1P3 RD Result	EN14387 Requirement
Sodium chloride NaCl (Sol)	<0.05 %	0.05 %
Paraffin Oil (Liq)	<0.05 %	0.05 %

Tested at BSI (Test Reports 8795438 and 8845782) the 3M™ Scott™ CFR22 NBC 2200 A1P3 RD filter meets the requirements of particulate and gas adsorption capacity according to class A1–P3 RD 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 <sup>n</sup> (Vol %)	3M™ Scott™ CFR22 NBC 2200 A1P3 RD Result Result	EN14387 Requirement
Cyclohexane C <sub>6</sub> H <sub>12</sub>	0.1	> 70 mins	70 mins

Tested at BGIA (Report Number 200824180/2120) the 3M™ Scott™ CFR22 NBC 2200 A1P3 RD filter has been tested to and meets the requirements of gas adsorption capacity according to class A1B2E1 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

Minimum breakthrough @ 30 L/min.	Test Conc <sup>n</sup> (Vol %)	3M™ Scott™ CFR22 NBC 2200 A1P3 RD Result Result	EN14387 Requirement
Chlorine (Cl <sub>2</sub> )	0.5	>20 mins	20 mins
Hydrogen Cyanide	0.5	>25 mins	25 mins
Hydrogen Sulphide	0.5	>40 mins	40 mins
Sulphur Dioxide	0.1	>20 mins	20 mins

## Riot Control Agents

The 3M™ Scott™ CFR22 NBC 2200 A1P3 RD filter has been tested with against tear gas, e.g. o-Chlorobenzylidene malononitrile (CS) and α-chloroacetophenone (CN), according to NIOSH 42 CFR 84.110 Tested at NIOSH (Report Number TN-12261) for filter test conditions: Temperature 25°C, flow rate 64 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	Challenge concentration	Breakthrough concentration	3M™ Scott™ CFR22 NBC 2200 A1P3 RD Result
CS	3 ± 0.09 ppm @ 64 ± 2 lpm	< 0.01 ppm	Pass
CN	16 ± 0.5 ppm @ 64 ± 2 lpm	<0.03 ppm	Pass

## Dimensions

The 3M™ Scott™ CFR22 NBC 2200 A1P3 RD filter has the following dimensions: - 90 mm (height) x 110mm (diameter)

## Material

The 3M™ Scott™ CFR22 NBC 2200 A1P3 RD filter is made from reinforced polyamide.

## Weight

The 3M™ Scott™ CFR22 NBC 2200 A1P3 RD Filter weighs 310g. (EN14387:2004 requirement max 500g)

## Disposal

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

## Storage temperature

The 3M™ Scott™ CFR22 NBC 2200 A1P3 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™ CFR22 NBC 2200 A1P3 RD filter was tested to and is certified to class A1 P3 RD of the European Standard EN14387:2004+A1:2008 (CE Certificate Number 698930).

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## 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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