

## **Data Sheet: CBRN filter**



## Filter for CBRN use

**Description** CBRN (chemical, biological, radiological, nuclear) canister, cap 1

**Usage** Protection against particulates, dust, smoke, fumes, bacteria, chemical and biological

warfare agents, ammonia, and a wide range of organic, inorganic and acid gases

Material Housing of ABS/PC plastic

Weight 495 g

Breathing resistance <50 mm H2O (4.9 mbar at 85 l/min

Particle filter medium Non-woven hydrophobic fibreglass paper, mechanical filtration

Particle filter efficiency

— P4 penetration <0.003% using paraffin oil at 95 l/min

— P4 high flow penetration 0.01% using paraffin oil at 250 l/min

Gas filter capacity Service life exceeds 15 minutes for CBRN PAPR for the test gases below. Tests are

conducted at 64 l/min.

Compound	Conc. (ppm)	B'thru (ppm)	Serv. life (min)
Ammonia	2,500	12.5	>15
Cyanogen chl.	300	2	>45
Cyclohexane	2,600	10	>15
Formaldehyde	500	1	>45
Hydr. cyanide	940	4.7*	>45
Hydr. sulphide	1,000	5	>45
Nitr. dioxide	200	1 (NO2) or 25 (NO)**	>15
Phosgene	250	1.25	>45
Phosphine	300	0.3	>45
Sulph. dioxide	1,500	5	>15

<sup>\*)</sup> Sum of HCN and C2N2

Chemical agent permeation resistance:

CBRN canister cap 1 tested with FP-C CBRN air purifying respirator and SE40 CBRN PAPR on a breathing machine set at 40 l/min against distilled sulphur mustard (HD) and sarin (GB) as per table below:

Agent	Conc.	Dur. (min)	Max b'thru (mg-min/m³)	Min serv. life (h)
HD-vapour	50 mg/m³	30	3.0	8
HD-liquid	0.43 – 0.86 ml	120	3.0	2
GB	210 mg/m³	30	1.05	8

Storage period

10 years in unbroken foil packaging

**Visor** 

Abrasion-resistant hard-coated Polycarbonate material

<sup>\*\*)</sup> Nitrogen dioxide breakthrough is monitored for both NO2 and NO. The breakthrough is determined by which quantity, NO2 or NO, reaches breakthrough first.