

CBRN FILTER

NBC7750FCBRN FILTER CANISTER

Type: A2B2E2K2HgSXP3 D R REACTOR

The NBC-77 SOF filter canister in combination with a full-face mask, mouthpiece assembly or PAPR provides reliable protection of air passages against a wide range of harmful and toxic substances including all known CBRN agents. Filters are produced with standard round threads according to STANAG 4155 (EN 148- 1) - Rd 40x1/7" or GOST 8762-75 (40x4mm).

Filter components are made of hard plastic. It provides a very robust product that is extremely durable against shock and impact damage in operational use.

TECHNOLOGY FOR PROTECTION, UTILITY & COMFORT

TECHNICAL DATA		
Diameter	110 mm	
Height	85 mm	
Weight	335 g±5%	
Storage time	20 years (factory sealed)	

TYPE AND CLASS		
A2 - Organic gases and vapors	SX, CG, CK, PS	
B2 - Inorganic gases and vapors	P3 - Solid particles and liquid aerosols	
E2 - Acid gases and vapors	D - dust	
K2 - Ammonia and amines	R - reusable	
Hg - Mercury vapors	REACTOR - radioactive iodine	

BREATHING RESISTANCE IN PA				
@ flow rate 30 l/min.		@ flow rate 95 l/min.		
EN	NBC-77 SOF	EN	NBC-77 SOF	
260	<140	980	<600	

SPECIAL COMBINED FILTER NBC-77 SOF TYPE A282E2K2HgP3 D R SX EN 14387:2004+A1:2008 DIN 58621 REACTOR P3 Thread: Rd40x1/7" E1149/17 Januar 4155

PARTICLE FILTER EFFICIENCY @ FLOW RATE 95 L/M

	EN	NBC-77 SOF
Sodium Chloride NaCl (S)	99.99+	99.99+
Paraffin oil (L)	99.99+	99.99+

NOTE:

1) Requirements of European Standard EN 14387+A1

2) The filter was tested on dolomite dust clogging

3) Radioactive iodine and its organic compound - methyliodide¹³¹ acc. to standard DIN 58621

NBC-77 SOF A2B2E2K2HgSXP3 D R REACTOR

APPLICATION:

The filter canister in connection with a suitable respirator or PAPR provides protection against solid and liquid particles, pepper spray (OC), smoke-producing substances, radioactive particles, bacteria and rickettsia, fungi, toxins, viruses, riot control agents (Lachrymators, Sternutators, Vomiting agents), blister agents (Vesicants), choking agents, blood agents, nerve agents, incapacitants, herbicides, pesticides and TIC, such as bromoacetone, CS, CR, CN, CNC, CNS, CA substances, organic compounds of arsenic - diphenyl- dichloroarsine - CLARK I (DA), diphenylcyanoarsine - CLARK II (DC), adamsite (DM), diphenyldichloroarsine (DA), ethyldichloroarsine (ED), methyldichloroarsine (MD), mustard gas (H), sulphur mustard gas (HD), T-mustard gas, Q-mustard gas, nitrogen mustard gases (HN1, HN2, HN3), lewisite (L), mixed mustard gas (H-L), phosgene oxime (CX), phosgene (CG), diphosgene(DP), chloropicrin (PS), hydrogen cyanide (AC), cyanogen chloride (CK), arsine (SA), G-agents: sarin (GB), cyclosarin (GF), soman (GD), tabun (GA), IVA (GV), V-agents: VX, VR, VE, VG (amiton), VM and toxic industrial chemicals, such as fumes of organic or inorganic acids, hydroxides, organic solvents with a boiling point above 65°C, ammonia, amines, inorganic and acid gases, agricultural chemical combustion gases, other toxic substances, e.g., benzene, toluene, vinyl chloride, fluorine, hydrogen fluoride, sulphur oxides, chloroacetic acid, aldehydes, mixtures of inorganic acids and organic substances, mercury vapors, radioactive iodine and its organic compounds, etc.

LIFETIME:

Breakthrough time of a filter is tested according to EN 14387+A1 at 70% humidity and a flow rate of 30 l/min, which is equivalent to the volume of air per minute used by an average person carrying out medium-heavy work. The approximate lifetime (usage time) of a filter may, under normal conditions, be calculated by comparing the concentration at the workplaceand the minimum Dynamic Adsorption Capacity (DAC) of the filter.

T=	DAC x 1000
	AFxC

Approximate usage time in minutes

Concentration of toxic gas in mg/l

- DAC Dynamic Adsorption Capacity in grams (see table)AF Airflow (air consumption) in l/min (in normal conditions 30 l/min)
- **TESTING GAS CONCENTRATION OF** BREAKTHROUGH DAC IN GRAMS **TESTING GAS** TIME IN MINUTES PPM MG/L **EN REQUIREMENT** NBC-77 SOF NBC-77 SOF C6H12 A2 Cyclohexane 5000 17.50 35 39 20.475 **B2** CI2 5000 Chlorine 15.00 20 45 20.250 Hydrogen Sulphide H₂S 5000 7.10 40 >80 >17.400 Hydrogen cyanide **HCN** 5000 5.60 25 50 8.400 Sulphur dioxide E2 SO2 5000 13.30 20 25 9.975 K2 Ammonia NH3 5000 5.250 3.53 40 50 Mercury 100 hours >170 hours >3.900 Ha Ha -----13.00 ma/m3 CICN SX Cyanogen chloride 2500 4.710 6.28 20 25 Chloropicrin CCI3NO2 5000 33.55 20 44 44.286 Phosgene COCI3 5000 20.24 20 >77 >47.058 **CH I3** REACTOR Methyliodide131 2 hours >2 hours



STORAGE AND MAINTENANCE

The filters are sealed in plastic bags by the manufacturer. Store the filters unopened in a clean place at a constant temperature between -5 to +30°C with relative humidity below 80%. Sealed filters tolerate conditions of -30 to +50°C with RH below 95%. The storage period (month and year) for filters is marked on the filter label. Do not try to regenerate the filters. Never clean the filters with compressed air or compressed water.

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After use, the filters are special refuse. Make sure that they are disposed of in accordance with current waste treatment regulations based on the substance(s). If the product is to be disposed of, it should be dismantled from the respirator and disposed of as solid waste. Please see local authority regulations for disposal advice and locations.