

Standard colours of filter housing:

black

green

beige (desert tan)







Technical data		Breathing resistance in Pa	Breathing resistance in Pa			
Diameter Height Weight Storage time	111 mm 75 mm 265 ± 3% g 20 years (factory sealed)	@ flow rate 30I/min. EN 1) OF-07 M 260 <130	@ flow (EN 1) 980	rate 95I/min. OF-07 M <470		
Type and Class		Particle filter efficiency @ flow rate 95 l/m				
A2 - organic gases and vapours B2 - inorganic gases and vapours E1 - acid gases and vapours SX - CG, CK, PS, DMMP P3 - particles D - dust R - reusable REACTOR - methyliodide ¹³¹		Sodium Chloride NaCl (S) Paraffin oil (L)	EN 99,95 99,95	OF-07 M >99,99 >99,99		

- 1) requirement of European Standard EN 14387+A1
- 2) the filter was tested on dolomite dust clogging 3) the filter is certified as REACTOR P3 acc. to DIN 58621 standard

F-07 M A2B2E1SXP3 D R REACTOR

APPLICATION:

The filter canister in connection with 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- dichlorarsine - CLARK I (DA), diphenylcyanoarsine - CLARK II (DC), adamsite (DM), diphenyldichlorarsine (DA), ethyldichlorarsine (ED), methyldichlorarsine (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 the 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, nitrogen dioxide, chloracetic acid, aldehydes, mixtures of inorganic acids, and organic substances, radioactive methyliodide¹³¹, etc.

Breakthrough time of a filter is tested according to EN 14387+A1 at humidity 70% and flow rate 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 life time (usage time) of a filter may, under normal conditions, calculated by comparing the concentration at the workplace and the minimum Dynamic Adsorption Capacity(DAC) for the filter. Breakthrough time of a filter on CWA is tested according to defense standard COS 841503 at humidity 80% and flow rate 30 l/mi.

C

 $T = \frac{DAC \times 1000}{AF \times C}$

Approximate usage time in minutes DAC Dynamic Adsorption Capacity in grams (see table) ΑF

Airflow (air consumption) in I/min (in normal conditions 30 I/min)

Concentration of toxic gas in mg/l

	Testing Gas		Concent testing ppm	ration of gas mg/l	Breakthrough time in minutesEN/COS requirement	0F-07 M	DAC in grams OF-07 M
A2	Cyclohexane	C ₆ H ₁₂	5000	17,50	35	>35	>18,375
B2	Chlorine	Cl ₂	5000	15,00	25	>28	12,600
	Hydrogen Sulphide	H₂S	5000	7,10	40	>60	>12,500
	Hydrogen cyanide	HCN	5000	5,60	25	>30	>5,040
E1	Sulphur dioxide	SO ₂	1000	2,66	20	>60	>4,860
NBC	Cyanogen chloride (C	CK)CICN	2500	6,28	20	>30	>5,652
	Chloropicrin (PS)	CCI ₃ NO ₂	5000	33,55	20	>30	>30,195
	Phosgene (CG)	COCI ₃	5000	20,24	20	>25	>15,180
	Sarin (GB)	C ₄ H ₁₀ FO ₂ P	174	1,00	67	>300	>9,000
	Mustard gas (HD)	C ₄ H ₈ CL ₂ S	60	0,40	167	>750	>9,000
	Soman	$C_7H_{16}FO_2P$	135	1,00	67	>300	>9,000
	DMMP	$C_3H_9O_3P$	5000	25,37	35	>35	>26,642
TCM	Ammonia	NH ₃	500	0,35		>20	>0,210

STORAGE AND MAINTENANCE:

The filters are sealed in plastic bags by the manufacturer. Store the filters unopened in a clean place at even temperature, most appropriate at -5 to +30°C and relative humidity below 80%. Sealed filters tolerate also conditions of -30 to +50°C and 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.

HUMIDITY INDICATOR: The indicator is placed in the center of the filter under transparent cover and helps to recognize on first sight if the filter can be safely used. If the filter is unused and properly stored, the indication point is white. If the indicator turns blue, it indicates that the unit pack is compromised and the inside components of the filter started degradation of impregnation due to adsorbed moisture. In this case do not use the filter.

After opening, the indicator can be easily removed by user if needed.

The indicator is an optional accessories.

DISPOSAL:

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

