







SCOTT PRO2000 FILTERS

The Scott Pro2000 canister filter range offers a wide choice of filters for specific respiratory challenges, providing high quality and cost efficient protection. Highest specification filter media and materials ensure durability and reliability in the most demanding applications.

Combining low weight and low resistance, Scott Pro2000 filters are manufactured using superior performance media, giving extended adsorption capacity for gas and combined filters and unrivalled efficiency for the particle element.

Pro2000 filters are fully EN approved to the latest standards, marked 'R' for re-usable (EN 143:2000/A1:2006), CE certified, and connect via a 40 mm EN148-1 thread. CE approvals: EN143, EN14387. CE0121.

PRO2000 FILTERS

- Particle filters trap solid and liquid particles, e.g. dusts, smoke, welding fumes, mists, micro-organisms and radioactive particles.
- Gas filters protect against hazardous gases and vapours.
- Combined filters protect against both gaseous and particulate contaminants.

Features of the particle filter

- Scott particle filters use only microfibre 'paper' media and do not use any electrostatic filtering methods, marked 'R' for re-usable (EN 143:2000/A1:2006).
- PF10 P3 features a high capacity filter element; trapping even the smallest particles with an efficiency 99,999 %.
- The filter element is extremely water-repellent.
- The vast intake area reduces the likelihood of clogging and resistance.

Features of the gas filters

- Superior raw materials for best performance.
- The effective microporous structure of the carbon provides an extended area for adsorption.
- With a safe margin to EN requirements, Pro2000 gas filters perform effectively using only 220–320 ml of carbon.
- Less carbon provides low weight and less resistance real benefits for the user.

HOW TO SELECT A FILTER?

- Will the atmosphere contain sufficient oxygen (18-23 vol-%) throughout the period of exposure?
- Which hazardous substances are likely to be present?
- Which forms do the airborne contaminants take? Are they particles, gases or vapour or indeed a mixture of these?
- What effects can these substances have on the respiratory organs? Special attention is needed if there are several substances that may interact, either by reacting chemically, or by having synergistic adverse health effects.
- What are the concentrations in the atmosphere?
- Which are the relevant occupational exposure limits (OEL) or safe exposure levels?

The level of protection required can be calculated as follows:

- 1. Divide the measured workplace concentration by the OEL-value of the substance
- 2. After that select the respirator, which has a protection factor superior to the required level of protection.

Protection factor :	Workplace concentration
needed	OEL value of the

Protection factor needed?

Contaminant:		harmful airborne dust
Measured conce	entration	5 mg/m³ [time-weighted average]
OEL		0.2 mg/m^3

The minimum protection factor needed: 5/0.2 = 25.

Protection factor 25 is needed and as the calculated value for multiples of the limit show that half mask with P3-filter will provide adequate protection.

What is the maximum permitted concentration of contaminant when using a full face mask with B2-gas filter?

Contaminant	Chlorine (Cl ₂)
OEL	1 ppm

Full face mask with a gas filter has a workplace protection factor of 400, which means that full face mask is allowed to use in multiples of 400 x OEL concentration.

The max concentration can be calculated: 400 x 1 ppm (Cl₂) = 400 ppm = 0,04 vol.% of chlorine.



PARTICLES

Particle filter performance

The risk caused by particles depends on:

- The physical, biological and chemical properties of the contaminant
- Particle size and form
- Concentration in the ambient air, and exposure time
- Work pace; the more rapid respiration, the more particles are inhaled.

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Particle filter capacity EN 143

- ur tiere	Farticle litter capacity Liv 143						
Class	Capacity	Max permitted penetration NaCl (solid, dusts) Paraffin oil (liquid, aerosols)		Limits of use Max permitted exposure level			
P1	Low capacity (against coarse and minor solid particles)	20 %	20 %	4 x OEL-value			
P2	Medium capacity (against solid and liquid hazardous particles)	6 %	6 %	12 x OEL-value			
Р3	High capacity (against solid and liquid toxic particles as well as radioactive particles and micro-organisms)	0.05 %	0.05 %	With a half mask 30 x OEL value. With a full face mask 400 x OEL value.			

Particle filter operation life

Filter does not wear out but gets clogged with particles and moisture. A particle filter must be replaced when breathing resistance has increased.

• When used against radioactive substances and micro-organisms a particle filter is recommended for single use only.

GASES AND VAPOURS

Gaseous substances

Gaseous impurities have various effects on health:

- They can irritate the membranes of respiratory organs, the eyes and skin
- They can reach the lungs and cause damages
- They can be absorbed in the blood and cause temporary or permanent damage to various parts of the body
- They can cause irreparable damage to the nervous system
- The most hazardous gases can intoxicate or suffocate, and even destroy individual bodily organs
- They can be lethal

The consequences of the harmful gases depend on:

- The characteristics of the gas or vapour; its toxicity and substance
- The concentration of the contaminant in the air
- Duration of exposure to the contaminant
- The chemical compound of the contaminant
- The ability to react chemically with organic tissue as well as the propensity to be absorbed in the blood
- Personal characteristics e.g. rate of respiration, condition of the blood circulation and sensitivity of the person

COMBINED FILTERS

Combined filters remove hazardous gases and vapours as well as solid and liquid particles. The particle filter traps aerosol-based particles such as paint droplets. When spraying liquid substances (e.g. spray painting) a combined filter must be used.



Physiological effects of particulates on human body

Inert dusts	Minor effects of concentration: e.c <5 mg/m ³ slight irritation, > 30 mg/m ³ high irritation
Mineral dusts,	Detrimental, hazardous effects:
e.g. silica dust, quartz	changes in lung tissues
Metal fumes and dusts, e.g., lead, chromium, cadmium, mercury, poisonous particles	Pneumoconiosis, bronchitis, asthma, inflammation, cancer
Manufactured	Pulmonary fibrosis,
fibres, e.g. asbestos and other fibres	mesothelioma, cancer
Airborne radio-	can cause severe damages,
active substances	e.g. cancer
Micro-organisms,	biological agents can cause
e.g. bacteria and	hazardous diseases, e.g.
viruses	farmer's lung

How far particles penetrate depends on the particle size - the smaller size the more detrimental

Particle size	Pulmonary tract	
> 10 µm	Membranes of nose	
	and mouth	
> 5 10 μm	Cilia, nose, trachea,	
	bronchi	
< 5 μm	In the lungs, pleura	
< 1 μm	Alveoli	

Particle forms

- *Dusts* are airborne solid particles, which are generated during the processing of organic and inorganic substances. Solid particles can be mineral, metal, coal, wood, or crop dusts as well as various fibres.
- *Fumes*, evaporating metal creates fumes during cooling.
- *Smoke* consists of small coal and soot particles which include both liquid droplets and solid particles.
- *Mists* are airborne droplets which are created when a fluid disperses in air in form of small particles.
- Micro-organisms, e.g. bacteria and viruses.
- *Radioactive particles* are generated as a result of radiation.



Gas filter classification EN 14387:2004

Class	Capacity	Max gas con- centration EN 14387. Negative pressure respirators	Max gas con- centration. EN 12941 & 12942. Powered respirators		
Class 1	Low capacity	1000 ppm (0.1 %)	500 ppm (0.05 %)		
Class 2	Medium capacity	5000 ppm (0.5 %)	1000 ppm (0.1 %)		
Class 3	High capacity	10 000 ppm (1%)*)	5 000 ppm (0.5 %)		

^{*)} NOTE! Test gas concentration with A-filter in class 3. is 0.8 vol% (EN 14387).

Gas filter capacity EN 14387:2004

Filter type	Test gas	Minimum allowed breatime for gases in differen				
		1. class	2. cla	ss	3. class	
Α	Cyclohexane C ₆ H ₁₂	70 min	35 min		65 min	
					(0.8 vol%)	
В	Chlorine Cl ₂	20 min	20 m	nin	30 min	
	Hydrogen sulphide H ₂ S	40 min	40 m	nin	60 min	
	Hydrogen cyanide HCN	25 min	25 m	nin	35 min	
E	Sulphur dioxide SO ₂	20 min	20 min		30 min	
K	Ammonia NH ₃	50 min	40 m	nin	60 min	
Special	filters					
Filter type	Test gas	allowed break-		Test gas concen- tration		
AX	Dimethyl ether CH ₃ -O-CH ₃	50 mii	nin 0.05 v		0.05 vol %	
Hg-P3	Isobutane C ₄ H ₁₀	1 10		.25 vol %		
[EN	Mercury, vapour Hg			.6 ml/ma		

Gas filter capacity with powered air respirators EN 12941 and 12942

Filter type	Test gas	Minimum allowed breakthroug time for gas in different classe		ent classes
_	Coolabanas C. II	1. class 70 min	2. class 70 min	3. class 35 min
Α	Cyclohexane C ₆ H ₁₂			
В	Chlorine Cl ₂	20 min	20 min	20 min
	Hydrogen sulphide H ₂ S	40 min	40 min	40 min
	Hydrogen cyanide HCN	25 min	25 min	25 min
E	Sulphur dioxide SO ₂	20 min	20 min	20 min
K	Ammonia NH ₃	50 min	50 min	40 min

NOTE! The test gas concentrations are different from those of EN 14387.

HOW LONG FILTER WORKS?

The service life of a filter depends on:

- Concentration and characteristics of the workplace contaminant
- Filter capacity, e.g. filter class, compare workplace concentrations to test values
- Breathing volume and work rate
- Humidity of the air
- Temperature of the atmosphere

Gas filter test performance

Gas filter lifetime is tested by directing the test gas through the filter at 30 l/min, which is equivalent to the volume of air per minute used by an average person carrying out medium heavy work. The filter lifetime can be roughly calculated by comparing the concentration at the workplace and the minimum breakthrough times required for the filter type.

How to calculate lifetime of a gas filter?

 $T = \frac{1\ 000\ 000\ x\ G}{V\ x\ C}$

- T = Time in minutes
- G = Capacity of the gas filter to absorb impurities (g)
- V = Breathing rate (I/min)
- C = Concentration of the contaminant in the ambient air

PRO2000 FILTERS

PF10 P3		Colour code	Filter	Main area of application	Weight g	Ref. nr	Stora time Years
	Particle filters		PF10 P3 R	Solid and liquid particles of toxic agents, radioactive substances and micro-organisms, e.g. bacteria and viruses.	74	052670	
	Partid		*) PFR10 P3 R	Solid and liquid particles of toxic agents, radioactive substances and microorganisms, e.g. bacteria and viruses.	90	052680	10
GF 22 B2 GF 32 E	Gas filters		GF22 A2	Gases and vapours from organic compounds (e.g. solvents) with a boiling point above 65°C.	190	042870	5
A A	Gas		GF22 B2	Inorganic gases and vapours, e.g. chlorine, hydrogen sulphide, hydrogen cyanide.	195	042871	5
			GF32 E2	Acid gases and vapours, e.g. sulphur dioxide.	305	042972	5
	S 1 8		GF22 K2	Ammonia and organic ammonia derivatives.	255	042873	5
GF 22 A2B2 GF 32 A2B2	2E2K2		GF22 A2B2	Organic and inorganic gases and vapours.	195	042874	5
· P			GF32 A2B2E2K2	Organic, inorganic and acid gases and vapours as well as ammonia and organic ammonia derivatives.	320	042979	5
			GF32 AX	Gases and vapours from organic compounds with a boiling point below 65°C.	268	042970	5
GF 32 AX	\int		CF22 A2-P3 R	Gases and vapours from organic compounds with a boiling point above 65 °C, solid and	230	042670	5
	 Iters		CF32 A2-P3 R	liquid hazardous particles, e.g. radioactive and toxic substances and micro-organisms, e.g. bacteria and viruses.	340	043070	
	Combined filters		CF22 B2-P3 R	Inorganic gases and vapours, e.g. chlorine, hydrogen sulphide, hydrogen cyanide, solid and liquid hazardous particles, e.g. radioactive and toxic substances and micro-organisms, e.g. bacteria and viruses.	265	042671	5
CF 22 A2-P3	Ü		CF32 E2-P3 R	Acid gases and vapours e.g. sulphur dioxide, solid and liquid hazardous particles, e.g. radioactive and toxic substances and microorganisms, e.g. bacteria and viruses.		043072	5
			CF22 K2-P3 R	Ammonia and organic ammonia derivatives, solid and liquid hazardous particles, e.g. radioactive and toxic substances and microorganisms, e.g. bacteria and viruses.	370	042673	5
CF 32 E2-P3 CF 22 K2-P3			CF22 A2B2-P3 R	Organic and inorganic gases and vapours, solid and liquid hazardous particles, e.g. radioactive and toxic substances and microorganisms, e.g. bacteria and viruses.	265	042674	5
THE STREET			CF22 A2B2E1-P3 R	Organic, inorganic and acid gases and vapours, solid and liquid hazardous particles, e.g. radioactive and toxic substances and micro-organisms, e.g. bacteria and viruses.	270	042678	5
CF 22 A2B2-P3			CF32 A2B2E2K2-P3 R	Organic, inorganic and acid gases and vapours as well as ammonia and organic ammonia derivatives, solid and liquid hazardous particles, e.g. radioactive and toxic substances and		042799	
			*) CFR32 A2B2E2K2-P3 R	mīcro-organisms, e.g. bacteria and viruses.	370	043699	
			CF32 AX-P3 R	Gases and vapours from organic compounds with a boiling point below 65°C, solid and liquid hazardous particles, e.g. radioactive and toxic substances and micro-organisms, e.g. bacteria and viruses.	310	042770	5
CF 32 A2B2E2K2-P3	P3		CF32 Reactor -Hg-P3 R *) CFR32 Reactor	Mercury and mercury compounds, radioactive iodine and its organic compounds like methyl iodide, solid and liquid hazardous particles, e.g. radioactive and toxic substances and		042777	5
Table Table			-Hg-P3 R CF22 A1E1Hg-P3 R	micro-organisms, e.g. bacteria and viruses. Organic and acid gases and vapours, mercury and mercury compounds plus ozone, solid and liquid hazardous particles, e.g. radioactive and toxic substances and micro-organisms, e.g. bacteria and viruses.	268	042778	5
CF 32 AX-P3 CF 32 Reactor-Hg-	23		CF32 A2B2E2K2- Hg-P3 R	Organic, inorganic and acid gases and vapours, ammonia and organic ammonia derivatives, mercury and mercury compounds, solid and liquid hazardous particles, e.g. radioactive and toxic substances and microorganisms, e.g. bacteria and viruses.	370	042798	5

FILTER GUIDE

Explanations

Use air-line = compressed air-line is recommended

 $Use\ SCBA = due\ to\ the$ dangerous nature of the hazard use Self Contained Breathing Apparatus

Note!

This filter recommendation is applicable only to Scott Health & Safety filters and should not be used if other filters are used.

Before use of this guide the risk assessment must be done at the workplace. The substances must be identified and measured. Airborne conta-

mination levels must be compared with acceptable limits. The maximum exposure limits must not be exceeded! The filtering device must not be used if the environment and contamination are unknown or if the composition of the atmosphere is likely to change disadvantageously. In case of doubt, insulating respirators which function independently from the at-mosphere must be used. The filtering device may be used only if the oxygen content of the air is 18-23 vol. %. Gas filters do not protect against particles. Similarly, particle filters do not provide protection against gases or vapour. In case of doubt, use combined filters. Normal filtering device do not protect against certain gases such as CO (carbon monoxide), CO₂ (carbon dioxide) and N₂ (nitrogen).

Filter recommendation

Substance

Copper fume, dusts

Filter	recom	mend	ation

Substance	Filter recom	mendation
Α		
Acetaldehy	/de	AX
Acetic acid		A-P3
Acetic anh	ydride	A
Acetone		AX
Acetonitril	e	A
Acetylene		Use
		air-line
o-Acetylsal	licylic acid	P3
Acroiein (2	2-propenal)	AX
Acrylaldeh Acrylamid		AX A-P3
Acryl acid	e .	A-F3 A, E
Acrylamid	e e	A-P3
Acrylonitri		A
Aldrin		A-P3
Allyl alcoh	ol	A
Allylamine	2	K
		(B or AX)
Allylbromi		A
	poxypropyl	
ether		A
Allyl chlor	ide	A
Allyl glycio	iyi etner	A
(AGE) Allyl-isocy	anato	A2B2-P3
Allyl propy	anate zl disulfide	B
Aluminiun	n alkyl	Б
compoun	ids	Р3
Aluminiun	n chloride	AX
Aluminiun		
and oxide	e	P3
Aluminiun	n welding	
fumes		P3
Aluminiun	n, soluble	
salts	,	P3
4-Aminoaz		A-P3
4-Aminodi	phenyl salts	Use
2-Aminoet	hanol	SCBA A
2-Aminopy		A-P3
3-Amino-1	,2,4-triazole	A
Ammonia	, ,	K
Ammoniu	m chloride	
fume		K-P3
	m sulfamate	
(Ammate)		P3
n-Amyl ac		A
sec-Amyl a		A
	homologues	A A-P3
	o-, p-isomers	A-P3
Antimon	ids (as SB)	Р3
Antimony	trioxide	P3
p-Aramid 1		10
fibres		Р3
Argon		Use
Ü		air-line
	compounds	
(except A		P3
Arsenic tri	oxide	P3
Arsine		Use
A ole and		air-line
Aspestos	otroloum	Р3
Asphalt (perfumes)	etroieum	A-P3
Atrazine		P3
	methyl (ISO)	A-P3
Aziridine	(150)	AREK

Substance Filter recom	mendation
В	
_	Λ
BGE	A D2
y-BHC (ISO)	A-P3
Barium compounds	Р3
Benomyl (ISO)	A-P3
Benzene	A
Benzenethiol	A
Bentzene -1,2,4-tri-	
carbolxylic acid	
1,2 anhydride	A-P3
Benzidene salts	A-P3
Benzidine	A-P3
p-Benzoquinone	A-P3
Benzoyl peroxide	A-P3
Benzyl butyl phtalate	A-P3
Benzyl chloride	B-P3
Beryllium compounds	Use
, ,	SCBA
Biphenyl	A-P3
Bismuthtelluride	P3
	13
Bismuthtelluride,	D2
Se-doped	Р3
Borates, (Tetra)	
sodium salts	Р3
Bornan-2-one	A-P3
Boron oxide	P3
Boron tribromide	Use
	air-line
Boron trifluoride	Use
Doron umaonae	air-line
Bromacil (ISO)	A-P3
Bromine	B-P3
Bromine pentafluride	Use
	air-line
Bromochloromethane	AX
Bromoethane	AX
Bromoethylene	AX
Bromoform	A
Bromomethane	AX
1,3-Butadiene	AX
Butane	AX
	В
Butanethiol	
2-Butanone	A
2-Butoxyethanol	
(Butyl cellosolve)	A-P3
Butyl acetate	A
sec-Butyl acetate	A-P3
tert-Butyl acetate	A
Butyl acrylate	A
n-Butyl alcohol	A
sec-Butyl alcohol	A
	A
tert-Butyl alcohol	
N-Butylamine	A
tert-Butyl chromate	
(as Cro3)	Р3
n-Butylglycidyl ether	A
n-Butyl lactate	A-P3
2-sec Butylphenol	A
p-tert Butyltoluene	A
1	
C	
Cadmium, dust &	
	D3
salts (as Cd)	P3
Cadmium oxide	D2
fume (as Cd)	P3
Caesium hydroxide	Р3
Calcium carbonate	Р3
Calcium cyanamide	P3

Calcium cyanamide

Calcium hydroxide

Calcium oxide

ABEK

Р3

Р3

Substance Filter recom	mendation
Camphor, synthetic	A-P3
e-Caprolactam	A-P3
Captafol (ISO)	A-P3
Captan (ISO)	A-P3
Carbaryl (ISO) Carbofuran (ISO)	A-P3
Carbon black	A-P3 P3
Carbon dioxide	Use
Carbon aloniae	air-line
Carbon disulfide	B-P3
Carbon monoxide	Use
	air-line
Carbon tetrabromide	A-P3
Carbon tetrachloride	A
Carbonyl chloride (phosgene)	В-РЗ
Carbonyl fluoride	B
Catechol (Pyrocatechol)	A-P3
Cellulose	P3
Cement	P3
Chlordane (ISO)	A-P3
Chlorinated biphenyls	A-P3
Chlorine	В
Chlorine dioxide Chlorine trifluoride	B B
Chloroacetaldehyde	A
a-Chloroacetophenone	A
(Phenacyl chloride)	
(CN)	A-P3
Chloroacetyl chloride	A-P3
Chlorobenzene	
(Monochlorobenzene)	A
o-Chlorobenzylidene	A D2
malononitrile (CS) 2-Chlorobuta-1,	A-P3
3-diene	AX-P3
Chlorodimethyl ether	AX
1-Chloro-2,	
3-epoxypropane	
(Epichlorohydrin)	A
Chloroethane	AX
2-Chloroethanol (Ethylene	
chlorohydrin)	A
Chloroethylene	A
Chloroform	
(Trichloromethane)	AX
bis-Chloromethyl ether	В
1-Chloro-1-nitropropane	В
Chloropicrin (PS) ß-Chloroprene	A AX-P3
o-Chlorostyrene	AX-13
2-Chlorotoluene	B-P3
2-Chloro-6-	
(trichloromethyl)	
pyridine	A-P3
Chlorpyrifos (ISO)	A-P3
Chromates, certain	Р3
insoluble forms Chromic acid and	P3
Chromates (as Cr)	Р3
Chromite (chromate)	
(as Cr)	Р3
Chromium, sol. chromic,	
chromous salts (as Cr)	P3
Coal dust in mines	A-P3
Coal tar pitch volatiles	
(as cyclohexane solubles)	A-P3
Cobalt metal, dust	A-1 3
and fume (as Co)	Р3
(40 00)	-

Copper fume, dusts	
& mists (as Cu)	P3
Cotton dust, raw	Р3
Cresols all isomers	A-P3
Cristobalite	Р3
Crotonaldehyde	A
Cumene	A
Cyanamide	B-P3
Cyanides, except	
hydrogen cyanide,	
cyanogens & cyano-	
genchloride, (as CN)	B-P3
Cyanogen	Use
- 7 8 -	air-line
Cyanogen chloride	Use
cyunogen emenae	air-line
Cyclohexane	A
Cyclohexnol	A
Cyclohexanone	A
Cyclohexene	A
Cyclohexylamine	A
	B-P3
Cyclonite (RDX)	
1,3 Cyclopentadiene	AX
D	
D	
2,4-D (2,4-Dichloro-	4 700
phenoxy acetic acid)	A-P3
DDT	
(Dichlorodiphenyl-	
trichloroethane)	A-P3
DDVP, see Dichlorvos	A-P3
Decaborane	B-P3
Demeton	A-P3
Diacetone alcohol	A
1,2-Diaminoethane	A, K
Diazinon	A-P3
Diazomethane	B-P3
Diborane	Use
	air-line
1,2-Dibromoethane	A
2-n-Dibutylamino-	
ethanol	A
Dibutyl phosphate	A-P3
Dibutyl phthalate	A-P3
Dichloracetylene	Use
Biemoracciyiene	SCBA
1,2-Dichlorobenzene	A
1,4-Dichlorobenzene	A
3,3`-Dichlorobenzidine	Use
3,3 -Dicinolobenzianie	air-line
1,3-Dichloro-5,	dii-iiie
5-dimethyl	
hydantoin	ABE-P3
1,1-Dichloroethane	AX
1,2-Dichloroethane	A
Dichloroethyl ether	A
Dichloromethane	AX
1,1-Dichloro-1-	
nitroethane	A
1,2-Dichloropropane	A
Dichloropropene	A
2,2-Dichloro-	
propionic acid	A
Dichlorvos (DDVP) (ISO)	A-P3
Dicyclohexyl	
phthalate	A-P3
Dicyclopentadiene	A-P3
Dicyclopenta-	
dienyliron	A-P3
Dieldrin (ISO)	A-P3
Diethylamine	K

Aziridine

	Y7	El ·l / E)	D2	71. 1 1.1	D2	NY.	* *
2-Diethylaminoethanol		Fluoride (as F)	P3	Lithium hydride	P3	Neon	Use
Diethylene triamine	A-P3,	Fluorine	В	Lithium hydroxide	P3	N. 1 1 1 1	air-line
B1 1 1 1	K-P3	Formaldehyde	AX, B, E	N.4		Nickel and inorganic	DO.
Diethyl ether	AX	Formamide	A-P3	M		compounds	P3
Diethyl phthalate	A-P3	Formic acid	E-P3	Magnesium oxide		Nickel and organic	
Difluorodibromo-		Fuel oils (various)	A-P3	fume (as Mg)	P3	compounds (as Ni)	A-P3
methane	AX	Furfural	A	Malathion	A-P3	Nicotine	A-P3
Diglycidyl ether	A-P3	Furfuryl alchohol	A	Maleic anhydride	A-P3	Nitrapyrin	A-P3
o-Dihydroxybenzene	A-P3			Manganese &		Nitric acid	E-P3
Diisobutyl ketone	A	G		compounds (as Mn)	P3	4-Nitroaniline	AB-P3
Diisopropylamine	K	Gasoline	A	Manganese fume (as Mn)	P3	Nitrobenzene	A-P3
Dimethoxymethane	AX	Germanium	Use	Manganese		4-Nitrobiphenyl	Р3
N,N-Dimethyl		tetrahydride	air-line	cyclopentadienyl		Nitroethane	A-P3,
acetamide	A	Glass, fibrous or dust	P3	tricarbonyL	A-P3		(B-P3)
Dimethylamine	K	Glutaraldehyde	A-P3	Manganese tetroxide	P3	Nitrogen dioxide	BE
Dimethylaminobenzene		Glyserol, mist	A-P3	Mercury alkyls (as Hg)	Hg-P3	Nitrogen trifluoride	Use
N,N-Dimethylaniline	A	Glyserol trinitrate	A-13 A-P3	Mercury & its	11g-1 3	Nitrogen tillidoride	air-line
	A	2	A-rs A			Nitroglyzanin	A-P3
Dimethylbenzene	A	Glycol ethers	A	inorganic divalent	H~ D2	Nitroglycerin	
Dimethylcarbamyl	4 D2	Н		compounds	Hg-P3	Nitromethane	A-P3
chloride	A-P3			Mesitylene	A	1-Nitropropane	A-P3
Dimethyl ether	AX	Hafnium	P3	Mesityl oxide	A	2-Nitropropane	A-P3
NN-Dimethylethylamine	K	Helium	Use	Methacrylic acid	A-P3	n-Nitrosodimethylamine	
Dimethylformamide	A		air-line	Methacrylonitrile	AB-P3	Nitrotoluene	A-P3
1,2-Dimethyl-		Heptan-2-one	A	Methane	Use		
hydrazine	K	Heptan-3-one	A		air-line	0	
Dimethyl phthalate	P3	Hexachlorobenzene	A	Methanethiol, see		Octachloronaphthalene	A-P3
Dimethyl sulphate	AP3	Hexachlorocyclo-		Methyl mercaptan	В	n-Octane	A-1 3
Dinitrobenzene	A-P3	pentadiene	A	Methanol	AX		P3
						Oil mist, mineral	13
Dinitro-o-cresol	B-P3	Hexachloroethane	A-P3	Methomyl (ISO)	P3	Osmium tetroxide	D DO
1,4-Dioxane	A-P3	Hexamethyl diisocyanate	A2B2-P3	Methoxychlor (ISO)	P3	(as Os)	B-P3
Dioxathion (ISO)	A-P3	Hexamethyl-		2-Methoxyethanol		Oxalic acid	Р3
Diphenylamine	A-P3	phosphoramide	A-P3	(Methyl cellosolve)	A	Oxygen difluoride	В
Diphenylmethane		Hexane (n-hexane)	A	Methyl acetate	AX	Ozone React	or-Hg-P3
diisocyanate (MDI)	A2B2-P3	2-Hexanone	A	Methyl acrylate	A		E1Hg-P3
Dipropylene glycol		Hexone	A	Methyl acrylonitrile	A		G -
methyl ether	A	Hexylene glycol	A	Methyl alcohol		P	
Diquat Dibromide (ISO)	P3	Hydrazine	K-P3	(Methanol)	AX	Paraffin wax fume	A-P3
1 , ,		2					
Disulfoton	ABE-P3	Hydrazine salts	K-P3	Methylamine	K	Paraquat dichloride (ISO)	A-P3
2,6-Di-tert-butyl-		Hydrazobenzene	ABEK-P3	Methyl amyl alcohol	A	Parathion (ISO)	A-P3
para-cresol	P3	Hydrocarbon solvents	A-P3	Methyl n-amyl ketone		Pentachlorophenol	A-P3
Diuron (ISO)	P3	Hydrogenated		(2-Heptanone)	A	Pentane, all isomers	AX
Divinyl benzene	A	terphenyls	A-P3	Methyl bromide	AX	Perchloroethylene	A
•		Hydrogen bromide	B-P3	Methyl-t-butyl ether	AX	Perchloromethyl	
E		Hydrogen chloride	B-P3	Methyl butyl ketone	A	mercaptan	В
Emery	Р3	Hydrogen cyanide	B-P3	Methyl chloroform		Perchloryl fluoride	В
Endosulfan (ISO)	P3	Hydrogen fluoride (as F)	E-P3	(1,1,1-Trichloro-		Phenacyl chloride	A-P3
	P3		B-P3		Λ	,	A-F3 A-P3
Endrin (ISO)		Hydrogen peroxide		ethane)	A	Phenol	A-P3
Epichlorohydrin	A	Hydrogen sulfide	В	Methyl	A-P3,	n-Phenyl-ß-	
1,2-Epoxypropane	AX	Hydroquinone	A-P3	2-cyanoacrylate	B-P3	Naphthylamine	A-P3
2,3-Epoxy-1-propanol	A	2-Hydroxypropyl		Methylcyclohexane	A	p-Phenylenediamine	Р3
Ethanethiol	AX, B	acrylate	A	Methylcyclohexanol	A	Phenyl ether	
2-Ethoxyethanol	A			2-Methylcyclo		(vapourr)	A
2-Ethoxyethyl acetate		I		haxanone	A	Phenyl ether-Diphenyl	
(Cellosolve acetate)	A	IGE (2,3.Epoxypropyl		Methylene bisphenyl		mixture (vapor)	A-P3
Ethyl acetate	A	isopropyl ether)	A	diisocyanate (MDI)	A2B2-P3	Phenyl glycidyl	
Ethyl acrylate	A	Indene	A	4,4`-Methylene-bis	1122213	ether (PGE)	A
Ethyl alcohol (Ethanol)		Indium &	11	(2-chloraniline)		Phenyl hydrazine	A
	K K		Р3	MbOCA	A2B2-P3	Phenyl mercaptan	A B
Ethylamine	K	Compounds (as In)			AZBZ-P3		
Ethyl amyl ketone		Iodine	B-P3	Methylene bis		Phenyl phosphine	В
(5-Methyl-3-heptanone)		Iodoform	A-P3	(4-cyclohexyliso-	1000	Phorate	A-P3
Ethylbenzene	A	Iodomethane	AX	cyanate)	A2B2-P3	Phosdrin (Mevinphos)	A-P3
Ethyl bromide	AX	Iron oxide, fume (as FE)	P3	4,4'-Methylene-		Phosgene	
Ethyl butyl ketone		Iron pentacarbonyl	A-P3	dianiline (MDA)	A-P3	(carbonyl chloride)	B-P3
(3-heptanone)	A	Iron salts	P3	Methylene chloride	AX	Phosphine	В
Ethyl chloride	AX	Isoamyl acetate	A	Methyl ethyl ketone		Phosphoric acid	Р3
Ethylene chlorohydrin	A	Isoamyl alcohol	A	peroxideS (MEKP)	A-P3	Phosphorous (yellow)	Р3
Ethylene glycol	A-P3	Isobutane	AX	Methyl formate	AX	Phosphorus pentachloride	
Ethylene glycol		Isobutyl acetate	A	Methyl hydrazine	K	Phosphorus pentasulfide	
dinitrate and/or		Isobutyl alcohol	A	Methyl iodide	AX	Phosphorus trichloride	B-P3
	Δ		A		AA A	Phthalic anhydride	ь-гэ A-Р3
Nitroglycerin	A	Isophorone	A	Methyl isobytyl ketone			
Ethylene glycol mono-	Α	Isophorone	4 0 D 0 D 0	Methyl isobutyl ketone	A A A D A D A	Picloram (ISO)	AB-P3
ethyl ether acetate	A	diisocyanate	A2B2-P3	Methyl isocyanate	A2B2-P3	Picric acid	P3
Ethylene oxide	AX	Isopropyl acetate	A	Methyl methacrylate	A	Platinum	
Ethylenimine	K	Isopropyl alcohol	A	Methyl parathion	A-P3	(Soluble salts) (as Pt)	Р3
Ethyl ether	AX	Isopropylamine	В	Methyl propyl ketone	A	Polychlorinated	
Ethyl formate	AX	n-Isopropylaniline	A	Methyl silicate	A	biphenyls (PCB's)	A-P3
Ethyl mercaptan	AX	Isopropyl benzene		a-Methylstyrene	A	Polyvinyl chloride (PVC)	Р3
4-Ethylmorpholine	A-P3	(as Cumene)	A	Mevinphos (ISO)	A-P3	Potassium hydroxide	P3
Ethyl silicate	A	Isopropyl ether	A	Molybdenum (as Mo)	P3	n-Propanol	A
Edity i silicate	71	Isopropyl glycidyl ether		Monochloroacetic acid	A-P3	Propargyl alcohol	A
F		isopropyi giyeldyi etner	A				
=	4 D2	1		Monomethyl aniline	A	Propiolactone	A-P3
Fenchlorofoss (ISO)	A-P3	L		Morpholine	A	Propionic acid	A-P3
Ferbam (ISO)	P3	Lead and compounds		NI		n-Propyl acetate	A
Ferrocene (ISO)	A-P3	(except lead alkyls)	P3	N		Propyl alcohol	A
Ferrovanadium dust	P3	Lead alkyls	A-P3	Naphthalene	A-P3	Propylene	Use
Flour dust	P3	Lindane	A-P3	2-Naphthylamine	A-P3		air-line

Substance Filter recom	mendation	Substance Filter recom	mendation	Substance Filter recom	mendation	Substance Filter recom	mendation
Propylene glycol	A	Styrene	A	Tetryl (2,4,6-trinitro-		V	
Propylene glycol dinitrate	A-P3	Subtilisins (Proteolytic		phenyl-methyl-		Vanadium pentoxide	Р3
Propylene oxide	AX	enzymes)	P3	nitramine)	P3	Vinyl acetate	A
PyrethrINS (ISO)	P3	Sulfur dioxide	E	Thallium, soluble		Vinyl acctate Vinyl benzene	A
Pyridine	A-P3	Sulfuric acid	E-P3	compounds (as TI)	Р3	Vinyl bromide	A
Pyrocategol	A-P3	Sulfur monochloride	B-P3	4,4`-Thiobis (6-tert-		Vinyl chloride	AX
-) 8		Sulfur pentafluoride	B-P3	butyl-m-cresol)	Р3		AX-P3
Q		Sulfur tetrafluoride	Use	Thioglycolic acid	A-P3	Vinylidene chloride	
Quartz	Р3	ourur tetrarraorrae	air-line	Toluene (Toluol)	A	Vinyl toluene	A
Quinone	A-P3	Sulfuryl difluoride	Use	Toluene-2, 4-diiso-	**	VM & P Naphtha	A D. D.2
Quinone	71.10	Surfary i diffuoritae	air-line	cyanate (TDI)	A2B2-P3	VX	B-P3
R		2,4,5-T (ISO)	P3	o-Toluidine	A-P3	W	
Resorcinol	A-P3	2,1,3 1 (130)	13	Tributyl phosphate	A-P3	• •	D2
Rhodium (as RH)	7113	T		Trichloroacetic acid	AE-P3	Warfarin (ISO)	P3
metal fume and dust	Р3	Tabun (GA)	B-P3	1,2,4-Trichlorobenzene	A	Welding fume	P3
Rosin core solder	13	Tantalum	P3	1,1,1-Trichloroethane	A	White spirit	A
pyrolysis products		TEDP	AB-P3	Trichloroethylene	A-P3	v	
(as formaldehyde)	B-P3	Tellurium &	AD-F3	Trichloromethane	A-r 3 AX	X	
(as formaldeflyde)	D-1 3	compounds (as Te)	Р3	1,2,3-Trichloropropane	A	Xylene (all isomers)	A
S		Tellurium hexafluoride	Use		A	Xylidine, all isomers	AK
Sarin (GB)	ABE-P3	(as Te)	SCBA	Tricyclohexyltin	A-P3	W	
· /	ABE-P3	. ,	A-P3	hydroxide Triethylamine		Y	
Selenium compounds	no.	Terphenyls	A-P3		A, K	Yttrium	P3
(as Se)	P3	1,1,1,2-Tetrachloro-2,	Δ.	Trimethyl benzene	A D2	_	
Silica dust	P3	2-difluoroethane	A	Trimethyl phosphite	A-P3	Z	
Silver, metal	P3	1,1,2,2,-Tetrachloro-1,		2,4,6-Trinitrotoluene	D	Zinc chloride, fume	P3
Silver soluble	D2	2-difluoroethane	A	(TNT)	P	Zinc chromates	
compounds (as Ag)	P3	1,1,2,2,-Tetrachloro,		Tri-o-tolyl phosphate	A-P3	(inc. zinc potassium	
Sodium azide	P3	ethane	A	Triphenylamine	A-P3	chromate)	P3
Sodium bisulfite	E-P3	Tetrachloro-	4 D2	Triphenyl phosphate	A-P3	Zinc oxide fume	P3
Sodium fluoroacetate	P3	naphthalene	A-P3	Tungsten & compounds		Zirconium	
Sodium hydroxide	P3	Tetrahydrofuran	A	Turpentine	A	compounds (as Zr)	P3
Sodium metabisulfite	P3	Tetramethyl lead (as Pb)	A-P3	U			
Soman (GD)	B-P3	Tetramethyl	4 P2	_			
Stibine	Use	succinonitrile	A-P3	Uranium compounds,	700		
	air-line	Tetranitromethane	В	natural, soluble (as U)	P3		
Stoddard solvent	A	Tetrasodium		Urethane (INN)	A-P3		
Strychnine	Р3	pyrophosphate	P3				

Restrictions on use:

- Standard filtering respirators do not protect against certain gases, e.g. CO (carbon monoxide), CO₂ (carbon dioxide) or N₂ (nitrogen).
- The storage time (month and year) for a filter is marked on the filter label. The above-mentioned storage times for Pro2000 filters are for a factory sealed filter package. Filters are sealed in plastic or foil bags by the manufacturer. Manufacture recommends storage at -10 ... +50 °C temperature and relative humidity below 75 %.
- After use, an opened filter must be wrapped closely, if it is likely to be reused, and it must be replaced not later than within 6 months.
- If the user can identify the breakthrough of the gas by smell, taste or irritation factor the filter must be replaced.
- When a hazardous gas has an olfactory threshold higher than the occupational exposure limit it produces no clear breakthrough sign. In these cases special directions regarding the calculated lifetime are required.

- The filter must be changed if the breathing resistance has increased noticeably.
- Maximum permitted time for use of the mercury filter Hg-P3 (applies also to filters A2B2E2K2Hg-P3, A1E1Hg-P3, Reactor Hg-P3) is 50 hours (EN 14387:2004).
- AX-filter is for single use only, and should be replaced after each shift (prEN529:2003).
- Against radioactive substances and microorganisms a particle filter is recommended for single use only.

SEE FOR MORE DETAILED INFORMATION ON FILTER CHOICE, USE, STORING, MAINTENANCE AND DISPOSAL SCOTT INSTRUCTIONS FOR USE.

Accessories

11000330	71165
052691	Prefilter Pro2000 (set of 20)
052692	Prefilter holder Pro2000 (2 pcs + prefilters (6 pcs)
052690	Spark protector Pro2000 (incl. 2 holders + 2 metal spark covers)
052693	Plastic cover Pro2000 (2 pcs)
052694	Screw cork 40 mm

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