



FILTER

Model: 205 A2B2E2K1 P3 R D CBRN PS
P/N 124700000

Combined filter with standard thread connector to **EN 148-1** protecting against gases of the ABEK type, dusts, fumes, mists and some warfare agents: Cyanogen Chloride (CK), Formaldehyde (HCHO), Nitrogen Dioxide (NO₂), Phosgene (CG), Phosphine (PH₃) and Chloropicrin (PS).
 The filter can be used with masks type **TR 82**, **TR 2002 CL2** and **TR 2002 CL3** or equivalent, provided that they are fitted with EN 148-1 connector.



TECHNICAL DATA

Inhalation resistance
 at 30 l/min: 2.0 mbar
 at 95 l/min: 7.6 mbar

Duration at gases

Filter type	Class	Testing Gas	Testing Concentration (PPM)	Testing Flow (l/min)	Testing HR (%)	Breakthrough concentration (PPM)	Duration Required (min)	Duration Tested (min)
A	2	C ₆ H ₁₂	5000	30	70	10	35	62
B	2	Cl ₂	5000	30	70	0.5	20	37
		H ₂ S	5000	30	70	10	40	> 60
		HCN	5000	30	70	10	25	52
E	2	SO ₂	5000	30	70	5	20	24
K	1	NH ₃	1000	30	70	25	40	54

Breakthrough time with **CBRN gases**:

Tests performed:

- **Cyanogen Chloride (CK), Formaldehyde (HCHO), Nitrogen Dioxide (NO₂), Phosgene (CG), Phosphine (PH₃)** to **NIOSH-CBRN** requirements
- **Chloropicrin (PS)** to **IMS** requirements

Test conditions	PH3	HCHO	NO2	CK	CG	PS1
Test Concentration (PPM)	300	500	200	300	250	5000 mg/m ³
breakthrough Conc. (PPM)	0.3	1	1 NO ₂ o 25 NO	2	1.25	5 mg/m ³
Air flow (l/min)	64	64	64	64	64	30
Air Temperature (° C)	25	25	25	25	25	23
Humidity of the Air (% RH.)	25 e 80	25 e 80	25 e 80	25 e 80	25 e 80	80
Air Pressure (mbar)	925	925	925	925	925	900 hPa
Breakth. Time at a 25% HR. (min)	> 150 ²	84	30 ³ NO	174	> 160 ²	107
Breakth. Time at a 80% HR. (min)	> 150 ²	86	29 ³ NO	172	> 330 ²	/

¹ The test with PS was performer after pre-conditioning for 60 Hrs at 80% RH and 23 °C.

² The test was stopped at shown time without reaching the breakthrough

³ The test was stopped at shown time without reaching the breakthrough





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Performance particle filtration – long duration test

Filter type	Class	Testing Flow (l/min)	Testing Aerosol	Penetration Max Allowed (%)	Penetration Max Measured (%)
P R	3	95	NaCl	0.05	0.004
			Paraffin oil	0.05	0.001

Marking R means that the filter is reusable for more than one workshift.

Performance particle filtration - Clogging (D)

Filters 205 were subjected to the optional clogging test to assess the actual protective capacity even in extremely dusty environments.

	Before clogging				After Clogging			
	Max Penetr. (%)		Resp Res. (mbar)		Max Penetr. (%)		Resp Res. (mbar)	
	DOP	NaCl	Test	Max EN143	DOP	NaCl	Test	Max EN143
	0.003	0.004	7.6	9.8	0.0008	0.0004	9.1	10.6

Limitations for use

Do not use in areas where the oxygen concentration is lower than 17% in volume nor in presence of gases different from those clearly indicated.

CLASSIFICATION

Filter complying with Directive **89/686/EEC (PPE)**

The filter is certified:

1 EN 14387:2004 + A1:2008 for types ABEK (class 2), NO and Hg

2 EN143:2000 / A1:2006 for the particle filter media (class **P3 R D**)

The filter is tested also for CBRN gases as per NIOSH_CBRN requirements.

Label colour code: brown, grey, yellow, green, white

MARKING



MATERIALS

Housing: polypropylene

Filter Media: activated carbon and filter paper



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STORAGE

Store at temperatures between -20 and +50°C and RH <80%

WEIGHT

276 g (9.7 oz) approximately

DIMENSIONS/PACKING

The filter is sold in 1 piece boxes with dimensions 105 x 105 x 110 mm

SHELF LIFE

Filters duly stored and in their original packaging will last five years from production. The expiry date is stamped onto the filter label and its packaging.

For more information please check the notes along with the products or the ones published on the website: www.spasciani.com

NOTE: SPASCIANI SpA does not take any responsibility for any possible and unintentional mistake and reserve the faculty of modify materials and technical characteristics of its products at any time and without any notice. The pictures are purely indicative and may not represent the actual product described in the text.