

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

Breathing resistance

at 30 l/min: 2.0 mbar

at 95 l/min: 7.6 mbar

Duration at gases

Filter Testing Breakthrough type	Class	Testing Gas	Testing Concentration (PPM)	Testing		concentration (PPM)	Required (min)	Tested (min)
				Flow (l/min)	HR (%)			
A	2	C ₆ H ₁₂	5000	30	70	10	35	>45
B	2	Cl ₂	5000	30	70	0.5	20	26
		H ₂ S	5000	30	70	10	40	>50
		HCN	5000	30	70	10	25	35
E	2	SO ₂	5000	30	70	5	20	24
K	1	NH ₃	1000	30	70	25	40	55

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	Conc. Test	Air Flow	Humidity of the Air	breakthrough Conc. PPM	BreakthTime
Cyanogen Chloride (CK)	300	64	25+/-5	2	120
		64	80+/-5		203
		100	50+/-5		> 15
Formaldehyde (HCHO)	500	64	25+/-5	1	96
		64	80+/-5		84
		100	50+/-5		> 15
Nitrogen Dioxide (NO₂)	200	64	25+/-5	1 NO ₂	19*
		64	80+/-5	o	28*
		100	50+/-5	25 NO	13*
Phosgene (CG)	250	64	25+/-5	1.25	>240
		64	80+/-5		>240
		100	50+/-5		> 15
Phosphine (PH₃)	300	64	25+/-5	0.3	132
		64	80+/-5		234
		100	50+/-5		> 15
Chloropicrin (PS)	5000	30	80+/-5	5 mg/m ³	112
					113

* Breakthrough due to NO

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Performance particle filtration

Filter type	Penetration (l/min)	Test Aerosol	Penetration Max Allowed (%)	Test 1 (%)	Test 2 (%)	Test 3 (%)
P R	95	NaCl	0.05	0.004	0.004	0.004
		Paraffin oil	0.05	0.0020	0.0022	0.0007

Test Filter Type :

Test 1: Penetration (media calculated 30 sec after the test beginning)

Test 2: Max Penetration till 120 mg aerosol exposition

Test 3: Penetration (media calculated 30 sec after the test beginning) after 120 mg aerosol exposition and 24h storage.

"D" clogging test with Dolomite Dust.

Filter is submitted to a clogging test with a concentration of Dolomite of 263 mg.h.m³.

Inhalation resistance: a 95 l/min: 8.4 mbar (request < 10.5 bar)

Filter type	Test Flow	Test Aerosol	Penetration Max Allowed (%)	Penetration Max Measured (%)
P R	95	NaCl	0.05	0.0008
		Paraffin oil	0.05	0.0008

Marking D means the filter passed the clogging test with Dolomite dust and it has high performance in dusty and sandy settings.

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



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

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MATERIALS

Housing: polypropylene
Filter Media: activated carbon and filter paper

STORAGE

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

WEIGHT

278 g 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.

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