

FILTER

Model: 203 UP3

P/N 124600000

Combined filter with standard thread connector to **EN 148-1** for organic vapours having boiling point higher than 65°C, inorganic gases and vapours, Sulphur Dioxide (SO₂), Ammonia (NH₃) and its derivatives, Mercury Vapours, Carbon Monoxide (CO), dusts, fumes, mists.

The filter can be used with full face 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: 2.1 mbar

at 95 l/min: 8.5 mbar

Duration at gases

Filter type	Class	Test Gas	Test Concentration (PPM)	Test Flow (l/min)	Test HR (%)	Breakthrough concentration (PPM)	Duration Required (min)	Duration Tested (min)
A	2	C ₆ H ₁₂	5000	30	70	10	35	45
B	2	Cl ₂	5000	30	70	0.5	20	>30
		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	29
K	2	NH ₃	5000	30	70	25	40	>50
NO	/	NO	2500	30	70	5	20	>60
		NO ₂	2500	30	70	5	20	38
Hg	/	Hg	1.6 ml/m ³	30	70	0.1 ml/m ³	>100h	> 160h
CO	20 min	CO	2500 5000 10000	30	20.7 g/m ³ a 23 - 25 °C	200	> 20	> 20

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	0.0019	0.0019	0.0008
		Paraffin oil	0.05	0.0007	0.0008	0.0009

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

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"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.

WARNING: The filter can only be used once against CO and NOx and up to 50 hours against Hg and for 20 min with CO.

CLASSIFICATION

Filter complying with the provisions of Regulation (EU) **2016/425**.

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**)

3 DIN 58620 for protection against **CO (class 20)**

Label colour code: brown, grey, yellow, green, blue, red, black, white.

MARKING



MATERIALS

Housing: polypropylene

Filter Media: activated carbon and filter paper

STORAGE

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

DIMENSIONS/PACKING

The filter is wrapped in a multi-barrier foil and is sold in 1 piece boxes with dimensions 110 x110 x135 mm

WEIGHT

460 g (16.2 oz) approximately

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.