



UNIVERSAL FILTER Model: 203 A2B2E2K2P3 R D

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, dusts, fumes and mists.

The filter can be used with full face masks type TR 82, TR 2002 CL2 and TR 2002 CL3 or half-mask ST85, or equivalent, provided that they are fitted with EN 148-1 connector



Technical data

Breathing resistance

at 30 l/min: 1.8 mbar
at 95 l/min: 6.6 mbar

Duration at gases

Filter type	Class	Test Gas	Test Concentration (PPM)	Test Flow (l/min)	Test HR (%)	Breakthrough concentration (PPM)	Duration Required Tested (min)	
A	2	C ₆ H ₁₂	5000	30	70	10	35	48
B	2	Cl ₂	5000	30	70	0.5	20	32
		H ₂ S	5000	30	70	10	40	46
		HCN	5000	30	70	10	25	>35
		SO ₂	5000	30	70	5	20	28
K	2	NH ₃	5000	30	70	25	40	52

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



80 PERSONAL PROTECTIVE EQUIPMENT

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

The marking R indicates that the filter is reusable for multiple work shifts.

“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	Testing Flow	Testing 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.

LIMITATION 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 the provisions of Regulation (EU) 2016/425.

Combined filter, class 2 for gas protection and particle filter class P3 R D, to EN 14387:2004 + A1:2008. Label colour code: brown, grey, yellow, green, white.

MARKING



MATERIALS

Housing: polypropylene

Filter media: activated carbon and filter paper

STORAGE

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

WEIGHT

295 g approximately.

DIMENSIONS/PACKING

Il filtro viene venduto in scatole da 4 pezzi aventi le seguenti dimensioni (in mm): 220 x 220 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.

Code 80.0503.013