

203 A2B2E2K2P3 R D FILTER

(p/n: M40030-SP Grey – M40020-SP Blue)

The combined 203 A2B2E2K2P3 R D filter, with the standard thread connector (EN148-1, RD 40-1/7") can be used with the full face gas masks type SGE150, SGE 400/3 and SGE 400/3 BB, or equivalent provided with the EN 148-1 connector. This filter protects against organic gas/vapours with boiling point higher than 65 °C, inorganic gas/vapours, sulphur dioxide (SO₂), ammonia (NH₃) and its derivatives, dust, aerosols, particles, fumes and dust.



CLASSIFICATION

The combined 203 A2B2E2K2P3 R D filter complies with the EU Regulation 2016/425 (see www.mestelsafety.com for the Declaration of Conformity download).

Combined Filter: class 2 for gas protection and **class P3 R D** as particle filter, in conformity to EN 14387:2004 + A1:2008.

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

D Marking means the filter has high performance in dusty and sandy settings.

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

Marking: 

TECHNICAL DATA

Inhalation resistance

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

Duration at gases

FILTER TYPE	CLASS	GAS	BREAKTHROUGH CONCENTRATION (ppm)	REQUIRED DURATION (min)	TESTED DURATION (min)
A	2	C ₆ H ₁₂	10	35	48
B	2	Cl ₂	0.5	20	32
		H ₂ S	10	40	46
		HCN	10	25	> 35
E	2	SO ₂	5	20	28
K	2	NH ₃	25	40	52

Testing conditions: i) gas concentration: 5000 ppm; ii) flow: 30 l/min; iii) RH%: 70.

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Particle filtration

FILTER TYPE	AEROSOL	MAX ALLOWED PENETRATION (%)	TEST 1* (%)	TEST 2** (%)	TEST 3*** (%)
P R	NaCl	0.05	0.0019	0.0019	0.0008
	Paraffin oil	0.05	0.0007	0.0008	0.0009

Testing condition: penetration flow: 95 l/min.

Test 1*: Penetration (average value evaluated after 30 sec from the test beginning)

Test 2**: Max Penetration till 120 mg of aerosol exposition

Test 3**: Penetration (average value evaluated after 30 sec from the test beginning) after 120 mg of aerosol exposition and 24 h storage

D clogging test with Dolomite Dust

The filter is submitted to an obstruction 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	AEROSOL	MAX ALLOWED PENETRATION (%)	MAX MEASURED PENETRATION (%)
P R	NaCl	0.05	0.0008
	Paraffin oil	0.05	0.0008

Testing condition: penetration flow: 95 l/min.

Limitations for the filter use

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

MATERIALS

Housing: polypropylene

Filter Media: activated carbon and filter paper

STORAGE

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

WEIGHT

312 g approximately

SHELF LIFE

Filters duly stored and in their original packaging will last 5 years from production. The expiry date is printed out onto the filter label and its packaging.

For more information, please check the notes along with the product. Mestel Safety 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.