

FILTER

Model: 205 A2 P3 R D - Reactor
P/N 124740000

Combined filter with standard thread connector to **EN 148-1** protecting against gases of the A type, dusts, fumes and mists.

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: 2.2 mbar

at 95 l/min: 8.2 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 | C6H12 | 5000 | 30 | 70 | 10 | 35 | >45 |

Reactor efficiency:

The 205 A2 P3 R D - Reactor have been tested against:

- Iodomethane (CH3I)

| Filter Type | Test | Test Conc. (mg/m3) | Test Flow (l/min) | HR (%) | Pre-Equilibration | Filtering Efficiency (%) |
|-------------|------|--------------------|-------------------|--------|-------------------|--------------------------|
| Reactor | CH3I | 1,95 | 64 | 90 | No | 99,9999 |
| Reactor | CH3I | 1,95 | 64 | 90 | Si | 97,5093 |

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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 | 0.002 | 0.002 | 0.0007 |
| | | 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.

"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 | 0.0007 |
| | | 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 the provisions of Regulation (EU) **2016/425 (PPE)**

The filter is certified:

1 EN 14387:2004 + A1:2008 for types A (class 2)

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

The filter is tested also for Reactor in accordance to SO WG7 CBRN Tech Spec. Ver 1606-1, DIN 58621.

Label colour code: brown, orange, white

MARKING



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.



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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

265 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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