251 A2P3 R

Cod. 8011138

EN 14387:2004+A1:2008

EN 14387:2004 performance tests		A2P3 R	251
Minimum breakthrough time (min)	CyclohexaneC6H12 (5000ppm)	> 35	53
Filter efficiency (%)	after 3 min	< 0,05	0,007
	after 63 min	< 0,05	0,008
	after storage	< 0,05	0,008
Breathing Resistance (mbar)	inhal 30 l/min	< 2,6	1,7
	inhal 95 l/min	< 9,8	5,5

Characteristics

251 A2P3 R is a gas filter and protects against gaseous contaminants and airbone dusts. 251 A2P3 R filter is equipped with a special bayonet connection allowing to use it, in pair, on BLS half masks EVO R or EVO S and on full face masks BLS 5600 e BLS 5700.

Application

251 A2P3 R filter protects against organic gases and vapours with a boiling point above 65°C. It can be used with substances as solvents, toxic particles and microorganisms, etc. It is classified in terms of capacity as a class 2 gas filter (medium capacity filter) for the gas part and a class 3 filter (high capacity filter) for the dust part.

Protection

Exposure limit for 251 A2P3 R filter:
with half mask: for gases, vapours, dusts, fumes and mists 48* x TLV
with full face mask: for gases, vapours, dusts, fumes and mists 1000* x TLV
* NPF as defined in EN 529:2005 standard.

Materials

251 A2P3 R filter is made with the following materials:
•filter case: ABS
•filtering component for gases: activated charcoal A2 type
•filtering component for particles: filtering pleated layer of glass fibres

Height (bayonet excluded): 50 mm
Diameter: 97 mm
Weight: 145±5 g
These filters can be used on full face masks and half masks.

Certification

251 A2P3 R filter meets the requirements of EN 14387:2004 standard and is CE marked, as provided by 89/686/EEC European Directive, as a PPE of III category.
Italcert S.r.l. (Notified Body n° 0426) is the responsible of the certification (Art. 10) and of the product control with surveillance (Art.11.B). All the products are manufactured in a company that is ISO 9001:2008 certified.

Certification tests

251 A2P3 R filter meets the requirements of EN 14387:2004 standard and has been submitted to the tests provided by class 2 for the gas part and class 3 for the dust part.

- **Breathing Resistance**

The resistance offered from the filter to the air flow must be lower as possible and, in any case, must not be greater than the following values for gas filters (par. 6.11 of EN 14387:2004 standard): with an air flow of 30 l/min shall not exceed 2,6 mbar and with an air flow of 95 l/min shall not exceed 9,8 mbar.

- **Gas capacity**

251 A2P3 R filter has been submitted to tests according to par. 6.12 of EN 14387:2004 standard to verify the minimum breakthrough time, when exposed to test gases at determinate concentration. For A2 type, the test gas used is the gas expected in the standard and reported in the table, with their break-up time

- **Efficiency of protection (particles)**

Filtering efficiency of the filtering material, is determined using sodium chloride and paraffin oil test aerosols. P3 class provided a minimum filtering efficiency of 99,95 % (filter penetration <0,05%). The filters keep unchanged their filtering efficiency also after the long exposure test (up to 120 mg of concentration of the aerosol used for the test) and they are certified as reusable for more than one work shift (R marking).

DATA SHEET
251 A2P3 R EN 14387:2004+A1:2008

Application, Limitation, Warning

BLS filters cannot be used in the following conditions:
-when nature and concentration of contaminant are unknown -when oxygen content is lower than 17% in volume (which is often the case of closed environments without ventilation such as wells, tunnels, cisterns, etc) -when the contaminant is carbon monoxide or an odourless and tasteless gas -when certain conditions are dangerous to the worker health and life.

Filter must not be modified or altered. leave the work area when the filter or breathing apparatus has been damaged and if you have difficulty in breathing and / or illness. Persons whose olfactory sense is altered shall not use filter respirators. During works with open flames or liquid metal droplets the use of personal protective equipment with gas or combined filters may cause risks for the operators.

Filter use and maintenance
BLS filters must be used with half masks and full face masks with the same kind of connection. Carefully read the instructions for use of the filters and the one of the equipment (half mask or full face mask) is used with. Each new filter pair is packed in a sealed bag. Choose the filter keeping attention to the colour and identification marking and check that the filter is of the correct type for the intended use. Check that the filter is not out-of-date (the expiration date is printed on all the filters; this date shall be valid if the filter is kept sealed in accordance with the storage instructions). Inspect both the filter and facepiece for any breaks or damage. To use, open the sealed packet, fit the two filters to the filter housing on the half mask or full face mask, screwing the filter up tightly. In normal use conditions, filters shelf life is not only due to the pollutant concentration but to many other elements difficult to define, such as air humidity, air temperature, air inspired volume, weariness of the worker, etc. The operator shall leave immediately the work area and replace the filters when he starts to smell the contaminant. At the end of the work shift, the respirator shall be stored in a clean and dry place, according to the storage conditions indicated in the user information. BLS filters does not require maintenance and at the end of their use should not be blown, washed or regenerated in any way. Exhausted filters shall be replaced at the same time and dismantled according to the National regulations and considering the substances they have retained.

Storage time: 5 years (factory sealed), as shown on label (pictogram of hourglass)

Storage conditions: temperature range -10°C e +50°C, Relative Humidity < 80%

Minimum unit of sale: box (4 filters)

Technical Details

Each filter is tested:
- breathing resistance tests and weight for charcoal against gases
- filtering efficiency tests for particles part

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