



## 300 Series Filters

Protection against gases, vapours  
and dusts, fumes and mists

## DATA SHEET

### 302 P3 R

Cod. 8011037

### EN 143:2000/A1:2006



EN 143:2000/A1:2006 performance tests		P3 R	302 P3 R
Filter penetration (DOP) (%)	after 3 minuti	< 0,05	0,009
	after 63 minuti	< 0,05	0,007
	After storage	< 0,05	0,007
Breathing resistance (mbar)	Inhal 15 l/min	< 1,2	0,7
	Inhal 47,5 l/min	< 4,2	2,1

### Characteristics

302 P3 R is a gas filter and protects against airborne dusts. 302 P3 R filter is equipped with a special threaded connection allowing to use it, in pair, on BLS half masks TP2000 R o TP2000 S and on full face masks BLS 5250 e BLS 5500.

### Application

302 P3 R can be used in the presence of substances , toxic particles and micro organisms etc. It is classified, in terms of capacity, as a class 3 filter (high capacity filter).

### Protection

Exposure limit for 302 P3 R filter:

with half mask: for gas and vapours 30 x TLV; for dusts, fumes and mists until 30 x TLV.

with full face mask: for gas and vapours 400 x TLV; dusts, fumes and mists until 400 x TLV.

\* APF as defined in EN 529:2005 standard

### Materials

302 P3 R filter is made of:

- filter case: ABS
- particle filtering component: pleated part in glass fibre
- Height (thread excluded): 22 mm
- Diameter: 93 mm
- Weight: 63±3 g

**These filters can be used on full face masks and half masks**

### Certification

302 P3 R filter meets the requirements of EN 143:2000/A1:2006 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

302 P3 R filter meets the requirements of EN 143:2000/A1:2006 standard and has been submitted to the tests provided by class 3 for the particle component.

#### • 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 143:2000/A1:2006 standard): with an air flow of 15 l/min shall not exceed 1,2 mbar and with an air flow of 47,5 l/min shall not exceed 4,2 mbar.

#### • Filter penetration (for particle component)

Filtering efficiency of the material forming the particle component of the filter 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 (reaching of 120 mg in concentration of test aerosol) and they are certified as reusable (R marking means that they can be used for more than one work shift) .

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## 302 P3 R

EN 143:2000/A1:2006

### Application, Limitation, Warning

BLS filters cannot be used in the following conditions:

- when the type and concentration of contaminant is unknown. -when the oxygen content is lower than 17% in volume (which is often the case in closed environments 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. -The filter must not be modified or altered. - Leave the work area if the respirator becomes damaged, resulting in difficulty breathing and/or faintness. - Persons whose olfactory sense is altered shall not use filter respirators. -The use of gas or combined respiratory protective devices during works with open flames or liquid metal droplets may cause serious risk to the operator.

#### Filter use and maintenance

BLS filters must be used in pair connected to BLS half masks model TP2000 R and TP2000 S and to full face masks model BLS 5250 and BLS 5500. Carefully read the instructions for use of the filters and the one of the equipment (half mask or full face mask) is used with. Two new filters are packed in a sealed plastic 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 expired (the expiry date is printed on all the filters; this date shall be valid if the filter has been kept sealed at the recommended storage). Inspect both the filter and facepiece for any breaks or damage. For use, open the sealed packet, fit the two filters to the filter housing on the half mask or full face mask, screwing the filter tightly. Mind You: the P2 filters are used by being attached to gas filters positioning them over the gas filters and fixing in place by a plastic press-fit cover (the combined filters obtained with this coupling must be used always twin). In normal use conditions, the shelf life of the filter is not only due to the pollutant concentration but to many other elements difficult to be determined, such as the degree of air humidity, the air temperature, the inspired air volume, the weariness of the worker, etc. The worker shall leave immediately the work area and replace the filters when start 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. The BLS filters does not require maintenance and does not need to be cleaned, regenerated or blown. 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 (8 filters)

### Technical Details

In order to ensure high hygiene and increase the lifespan of the filter, the filtering paper is folded without the use of any glues.

Each filter is tested:

- filtering efficiency test for protection against particles.

**BLS S.r.l.**

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