

# BLS 502 FFP2 | BLS 503 FFP3



DISPOSABLE DUCK SHAPED FILTERING FACEPIECES FOR MEDICAL/HEALTH ENVIRONMENT (PPE)



EN 149:2001+A1:2009 TESTS	FFP2 NR REQUIREMENTS	FFP3 NR REQUIREMENTS	
Breathing resistance (mbar)	Inhalation 30 l/min	< 0,7	< 1,0
	Inhalation 95 l/min	< 2,4	< 3,0
	Exhalation 160 l/min	< 3,0	< 3,0
Filter material efficiency (%)	After 63 min (long exposure)	> 94	> 99

## DESCRIPTION

BLS 502 and BLS 503 disposable filtering facepieces offer effective protection of the respiratory tract in those environments where the wearer is exposed to non-volatile solid and/or liquid particles.

### SINGLE PACKED 2-PANEL DUCK SHAPED DESIGN

The facepiece adapts to all kinds of faces with different sizes and shapes, it is comfortable to wear and easy to store when not worn. The individual hygienic packaging also protects the filtering facepiece from any contamination before use, allowing practical storage and distribution in the workplace.

### INTERNAL NOSE CLIP

The nose clip is positioned between the layers of filtering material and adapts perfectly to the profile of the nose and eyes ensuring good visibility and great compatibility with glasses.

### FLAT

- It prevents internal mask contamination, in direct contact with the face, before and after use.
- It can be distributed through vending machines.
- Ideal for intermittent use, it does not get ruined if kept in a pocket.

### UNVALVED

- Exhalation barrier, it protects the environment from the wearer.
- Ideal in the food industry, in the medical field and all working environments where potential contamination by the wearer must be avoided.

## MATERIALS

The following materials are used in the production of BLS 502 and BLS 503 filtering facepieces:

- Filtering material: layers of non irritating, polypropylene non-woven fabric
- Nose clip: polypropylene (PP) reinforced
- Elastics fixing: welded
- Elastics: textile
- Weight: 5 g
- Phthalate free

## CERTIFICATION

BLS 502 and BLS 503 filtering facepieces meet European Regulation 2016/425 (Personal Protective Equipments) requirements and are CE marked, as a III category PPE, according to EN 149:2001+A1:2009 standard. CE Certification and final product control (module D) have been issued by Italcert S.r.l. (Notified body n°0426). BLS certifies his own Quality management System according to standard ISO 9001.

## CERTIFICATION TESTS

### EFFICIENCY FILTERING MATERIAL

Penetration of filtering material has been tested with two test aerosols, sodium chloride (NaCl) and paraffin oil. The following results in terms of penetration are registered: 1) Initial penetration (3 minutes after test starting); 2) maximum penetration during the test until reaching the concentration of 120 mg of test aerosol (exposure test) 3) only for reusable device, initial penetration after exposure test and storage (24 h). Less is the quantity of aerosol inside the facepiece, better is the filtering efficiency of the filtering material.

### TOTAL FILTERING EFFICIENCY

The total inward leakage consists of two components: face seal leakage and filter penetration. Tests provide also that ten subjects carry out a sequence of exercises that simulates the practical working activity, wearing the filtering facepiece; less is the quantity of aerosol inside the product, better is the filtering efficiency of the facepiece.

### BREATHING RESISTANCE

The breathing resistance offered by the filter has been tested with 30 l/min and 95 l/min airflows for the inhalation and 160 l/min airflow for the exhalation.

### FLAMMABILITY

The filtering facepieces subjected to the test are passed one by one through a flame with a temperature of 800°C +/- 50°C and at a speed of 6 cm/s. Filtering facepieces must not go on burning for more than 5 seconds after removal from the flame.

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## TRANSPORT

PRODUCT	CODE	WEIGHT (g)	Q.TY/BOX	Q.TY/CARTON	Q.TY/PALLET
BLS 502	8101006	5	20	240 (12 boxes)	8.640
BLS 503	8101003	5	20	240 (12 boxes)	8.640

## APPLICATION

BLS 502 and BLS 503 filtering facepieces are aimed at health workers who need higher protection compared to normal surgical masks in case of filtration of smaller micron-sized particles. Filtering facepieces reduce the risk of potential exposure to non-volatile solid and liquid aerosols in the air, ensuring the individual protection of the upper respiratory tract from biological agents.

## WARNINGS

1. The operator must be trained to the proper use of the filtering facepiece, before using it.
2. This product does not protect the operator against gases and vapours. For gas and vapours protection are necessary gas respirators.
3. Not to be used in atmospheres containing less than 17% oxygen.
4. Do not use when the concentrations of the contaminants are immediately dangerous for life or health.
5. Do not use in explosive atmosphere and to escape.
6. Leave the workplace immediately:
  - if breathing becomes difficult;
  - if dizziness or other distress occur.
7. Do not alter or modify the product in any way.
8. Discard and replace the filtering facepiece if it becomes damaged, if breathing becomes difficult and in any case after 8 hours work if the facepieces is NR type (max 8 hours).
9. Operator must be clean shaven as facial hair will affect the efficiency of the product.
10. Store the filtering facepiece in a dry and clean room at a temperature within +5°C and +40°C and relative humidity < 60%. If stored correctly and in the original box the product has a shelf life of 10 years and 5 years for models with carbon layer.

## STORAGE AND TRANSPORTATION

BLS 50 and BLS 503 filtering facepieces have a shelf life of 10 years. End of shelf life (expiry date) is marked on the product box. Product should be stored in clean, dry conditions within the temperature range: +5°C to +40°C with a maximum relative humidity of 60%. When storing or transporting this product, use original box provided.

## IMPORTANT

BLS declines any responsibility, direct or indirect, from any misuse of both devices and instructions. User is responsible for the determination of product compliance with the intended use.