



U.MASK
SOS / MED

Fold Flat Filtering Facepiece

Protection against solid and/or liquid aerosols and disagreeable smell, Particulate Matter, fumes and mists, virus and bacteria.

TECHNICAL DATA SHEET

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With antimicrobial Sanitized® layer.



EN 149:2001+A1 tests	FFP3 R D Requirements	U-Mask
Total filtering efficiency %	> 99	99,3
Breathing resistance (mbar)	inhal. 30 l/min	< 1,0
	inhal. 95 l/min	< 3,0
	exhal. 160 l/min	< 3,0
	after clogging inhal. 95 l/min	< 7,0
Filter material efficiency (DOP) (%)	after 3 min	> 99
	after 63 min (long exposure)	> 99
	after storage	> 99
	after clogging	> 99
		99,9
		99,8
		99,6
		99,3

DESCRIPTION

U-Mask SOS filtering facepieces provides effective respiratory protection in industrial / urban and medical environments where workers/ people will be exposed to non-volatile solid and/or liquid particles (dusts, mists, fumes) virus and bacteria.

- Fold flat shape.

- Headband made by two elastic rubber straps in the professional version

- Adjustable nose-clip between the filter material layers and soft inner lining on nose, to ensure a good face seal over a range of face sizes.

- Exhalation valve, with a low breathing resistance, which drops heat and humidity inside the respirator, makes breathing easier and makes the respirator suitable for hot humid work place.

- R marking to specify that the facepieces is Reusable for more than one work shift, and up to 1 year for discontinue use once opened.

- D marking to specify that the facepieces meet the clogging resistance requirements and also offers a high level of filtering efficiency also in very dusty environments.

- Once opened the mask antimicrobial effect will last for 1 year and the mask can be used for 150-200 hrs of effective use.

- Tested and CE compliant to new EN 149:2001+A1:2009 standard.

- The individual packaging of the facepiece offers greater hygiene and maintenance and avoids any contamination.

MATERIALS

The following materials are used in the production of U-Mask filtering facepieces:

- Filter: filtering material in layers, non irritating, polypropylene non-woven fabric
 - Nose clip: reinforced plastic material
 - Face seal: foam PVC rubber
 - Straps: Thermoplastic elastomer
 - Staples: Steel
 - Valve/Valve diaphragm: polypropylene /para rubber
- Weight: 17 g

LEVEL OF PROTECTION

U-Mask SOS filtering facepieces is suitable for protection against non-volatile solid and/or liquid particles up to 30* times the Threshold Limit Value (TLV-TWA).

* = APF, Assigned Protection Factor (in accordance to EN 529:2005 standard – value for Italy).

CLEANING

U-Mask SOS filtering facepieces is R marked, i.e. it can be used for more than one shift; the face seal must be cleaned at the end of each shift using a cleansing wipe. Do not immerse product in water.

STORAGE AND TRANSPORTATION

U-Mask SOS particle filtering facepieces has a shelf life of 4 years and 1 year once packaging is opened. End of shelf life (expiry date) is marked on the product packaging. 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 packaging provided.

CERTIFICATION

U-Mask SOS filtering facepieces meets the requirements of the European Directive 89/686/EEC (Personal Protective Equipment) and is thus CE compliant, as a PPE of III category, according to EN 149:2001+A1:2009 standard. CE Certification compliance and final product control have been issued by BLS internal lab, the company producing U-Mask.

BLS certified his own Quality management System according to EN ISO 9001:2008 regulation.

U-mask SOS/MED has a special layer treated with the Sanitized® hygiene Swiss technology which helps to reduce the growth and spread of microorganisms that are particularly problematic such as clostridia and antibiotic-resistant bacteria such as MRSA, VRE and NDM-1.

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CERTIFICATION TESTS

• **Efficiency of filter material**

Penetration of filter material has been tested with two test aerosols, Sodium Chloride (NaCl) and Paraffin Oil (DOP). 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 respirator.

• **Total filtering efficiency**

The total inward leakage consists of three components: face seal leakage, exhalation valve leakage (if exhalation valve fitted) and filter penetration. The test provides that ten subjects carry out a sequence of exercises that simulates the practical working activity, wearing the respirator; less is the quantity of aerosol inside the facepiece, better is the filtering efficiency of the respirator.

• **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

• **Clogging**

Filtering facepiece is submitted to a clogging test with dolomite dust, clogging the filter with an air flow of 95 l/min until 883 mg*h*m have been reached of dolomite have been deposited or until the is reached the value of breathing resistance for that class. After clogging, filtering facepieces are submitted to a test of filtering efficiency again.

• **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. The respirators must not go on burning for more than 5 s after removal from the flame.

WARNINGS

- 1) The operator must be trained in the proper use of the filtering facepieces, before use it.
- 2) This product does not protect the operator against gases and vapours. For gas and vapours protection are necessary the gas respirators.
- 3) Not to be used in atmospheres containing less than 17% oxygen.
- 4) Do not use when the concentration of the contaminants is 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 mask if it becomes damaged, if breathing becomes difficult or is the mask is uncomfortably dirty.
- 9) Operator must be clean shaven as facial hair will affect the efficiency of the product.
- 10) Store the filtering facepieces 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 packaging the product has a shelf life of 10 years and 5 years for models with carbon layer.
- 11) Cleaning: the filtering facepieces designed as R D, are reusable for more than one work shift, so they must be cleaned before to store them in a dry and clean place. For cleaning, use a wet wipes, of the type usually commercialized (with ingredients as Water, Propylene Glycol, Capric Glycerides, Parfum), to delicately clean the inner gasket.

Made in Italy

Technical details

Built with edges of filtering material, the structure ensures a greater duration of the DPI.

The extensive covering surface of the filtering facepiece increase the facial cover of the user.

The individual packaging of the facepiece offers greater hygiene to the user

Filtering facepieces passed Dolomite dust clogging test. Lower breathing resistance, higher duration



In order to reduce the chance of product contamination (required by various industries among which the pharmaceutical and the food industries), the internal noseclip is set between two layers of fabric to reduce as much as possible the aluminum parts of the PPE .

