

Osmotex Active Sterilising Facemask® - the protective mask with active antiviral effect!

Medical Facemask Type IIR - C€ EN 14683:2019

Electronic unit SC-10, EN 60335-1:2020-08 IP-classification: IP3X

Article No. RO-2021-OS-G, RO-2021-OS-B, RO-2021-OS-D, RO-2021-OS-W, RO-2021-OM-G, RO-2021-OM-B, RO-2021-OM-D, RO-2021-OM-W, RO-2021-OL-G, RO-2021-OL-B, RO-2021-OL-D, RO-2021-OL-W, RO-2021-OX-G, RO-2021-OX-B, RO-2021-OX-D, RO-2021-OX-W, RM-2021-OS-G, RM-2021-OS-B, RM-2021-OS-D, RM-2021-OS-W, RM-2021-OM-G, RM-2021-OM-B, RM-2021-OM-D, RM-2021-OM-W, RM-2021-OL-G, RM-2021-OL-B, RM-2021-OL-D, RM-2021-OL-W, RM-2021-OX-G, RM-2021-OX-B, RM-2021-OX-D, RM-2021-OX-W



Please read these instructions carefully before using the device and keep them for future reference.

Before using this product, you must:

- read and understand the instruction manual completely.
- familiarise yourself with your product, its capabilities and limitations of use.
- understand and accept the risks associated with its use.

Function of the device: protection from bacterial or viral infections transferable through air - (see also chapter on mechanism) for everyday use and for healthcare and medical professionals exposed to a high risk of infection.

For further information, please see www.osmotex.ch. Possible phone hotlines will be listed at the home pages as well.

Indications: Protection from infections

Contraindications: Not known



Failure to heed these warnings and following recommendations could result in electric shock, fire and/or serious injury.

Dear Customer,

We are pleased that you have chosen the Osmotex Active Sterilising Facemask®. The mask consists of membranes and fabrics that disinfect themselves (passively and actively - with the electronic unit) to increase protection against infectious diseases. This effect has been verified in numerous studies in the laboratory and in clinical trials in Switzerland and Germany. Stay healthy!

Scope of delivery

Together with the protective mask, you will receive a rechargeable electronic unit (SC-10) and a charging cable.



The mechanism (3-fold inactivation)

Osmotex Steriliser® technology - unlike passive protective masks, the mask continuously disinfects itself through its active membrane.

Laboratory tests by the Zurich University of Applied Sciences (ZHAW) have shown that the Osmotex Steriliser® technology can destroy more than 99.9999 % of viruses at a concentration of over 10^9 PFU/ml (plaque forming units), within 15 minutes. This represents a 100-fold increase in virus concentration and only one-eighth of the time that is employed in standard test for passive antiviral textiles (according to ISO18148:2019). The face mask contains the Osmotex Steriliser® textile technology and shows a viral inactivation of over 99.9 % in 2 hours, and 99 % in 15 minutes in the enhanced tests developed by ZHAW.

In addition to active (electronic) disinfection, the face mask offers additional efficient particle filtering and additional passive antiviral protection due to the materials used (e.g. silver threads). Thus, it offers a triple protection:

1. Particle filtration: with an N95 filter that is also used in FFP2 masks.
2. Passive disinfection - through polarized electrode surfaces, which provides up to 99 % inactivation of viruses and bacteria.
3. Active disinfection, which results in >99.9 % inactivation of viruses and bacteria

Putting the mask into operation

Step 1: charge the electronic unit SC-10. With the electronics unit SC-10 fully charged, the mask can be used for at least 10 hours.

Step 2: put the mask with the electronic unit SC-10, holding it against your cheek to cover nose and mouth. Adjust the shape of the nose clip with your hands. Fixate the mask by applying the elastic bands / earloops behind your ears. Wear the mask comfortably by adjusting the length of the elastic bands by means of the stoppers. Assure that the mask sits firmly.

Charging the electronic unit

To charge the electronic unit, connect the cable to the electronic unit and a USB port (5 V, min. 30 mA, CE/UL, protection class II). During the charging process, the left (red) diode lights up. Charging the unit may take 6 hours depending on charging level at start and ambient temperature. The recommended temperature during charging is between 10 °C and 35 °C. At extremely low or high ambient temperatures the charging process may not work properly or not work at all.



Warning! In case of excessive water seepage into the unit during use (e.g. during rain), the electronic unit will switch itself off automatically. It can then be used again after drying completely.

Connecting the electronic unit to the mask

There are two push buttons on the electronic unit to connect it to the mask. Use them to attach the electronic unit to the mask.

Switching the electronic unit SC-10 on and off

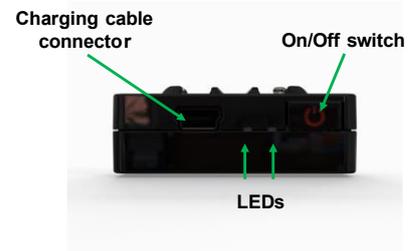


Please use only the supplied electronic unit for operating the mask! Please charge the electronic unit completely before using it for the first time (see section Charging of the electronic unit).

When the electronic unit is fully charged, press the button to the right of the two LEDs for 1 second (see illustration).

The right diode gives a constant green light. The mask is now supplied with permanent power and is activated. The fully charged electronic unit supplies sufficient current (operating voltage: 0.6 V) for at least up to 10 hours.

To switch off the electronic unit, press the button for 2 seconds until the green LED goes off. The electronic unit is switched off and can be activated by pressing the button again.



Care and cleaning of the mask



Always remove the electronic unit before washing!

The mask may be washed gently by hand (without soap) at approx. 30 °C. Do not bend or twist the mask. Do not iron. After washing, let the mask dry to a comfortable level. The mask can already be worn and put into operation when moist.

The electronic unit and cable can be wiped with a damp cloth.

Duration of usage

The Osmotex Active Sterilising Facemask® will last for one year of normal use. It is recommended to replace the mask every 6 months by regular usage. The electronic unit has a service life of at least 2 years.

General notes on the electronic unit

The electronic unit contains a lithium-ion battery, therefore the same precautions should be observed as for other devices containing such batteries, e.g., cellular phones.



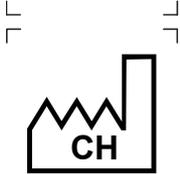
WARNING: Danger of explosion!
Improper use may damage the battery.

- Do not immerse the electronic unit in water.
- Do not throw the electronic unit into a fire.
- Do not use a defective or damaged electronic unit!
- Protect the electronic unit from water and from excessive heat.
- The recommended usage and storage temperatures for the electronic unit are 10 °C - 45 °C.
- When disposing of the electronic unit, observe the applicable local regulations (classification IP: IP3X).

Made in Switzerland 



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Environment



The electronic unit contains batteries and/or reusable electronic components. For environmental reasons the electronic unit should not be disposed through the household waste at the end of its lifetime, but be delivered to the relevant local collection or return stations.

Letter of conformity and instructions for use: www.osmotex.ch/osmotex-steriliser-ifu

A final remark:

Please report any difficulties or incidents related to this product to the manufacturer (www.osmotex.ch) and to the responsible authorities (www.swissmedic.ch)