

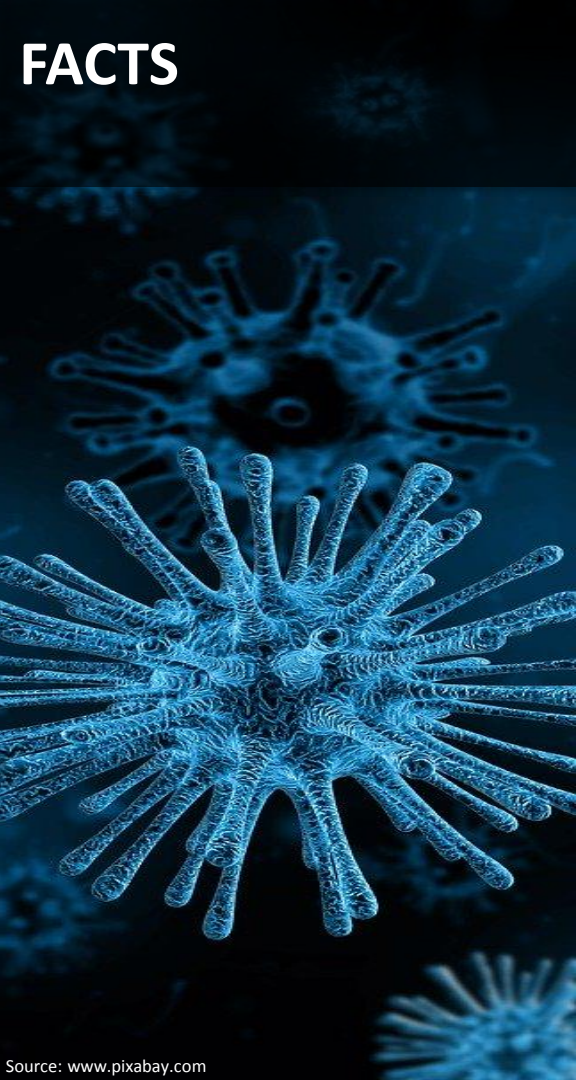


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**Recommended TEXTILCOLOR Products**  
supporting the fight against the coronavirus





# FACTS

- Disinfection and hygiene improving products are one important key element for preventing the spread of viruses and bacteria
- Wearing face masks have been recommended by many countries to reduce the risk of infection

**Use the recommended TEXTILCOLOR products to improve the protection function of a face mask**

# OVERVIEW DIFFERENT FACE MASKS

## Textile Masks



- Reduction of risk of spreading infection
- Prevention of touching mouth and nose

## Medical Face Masks



- EN 14683
- Reduction of risk of spreading infection
- Protection of the patient from infectious agents
- Protection against the ingress of contaminated liquids and aerosols during surgical procedures.

## PPE or FFP Masks

*PPE: Personal Protective Equipment*

*FFP: Filtering-Face-Piece*



- EN 149
- Protection from exposure to airborne particles
- Protection from exposure to biological aerosols including viruses and bacteria in healthcare



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# TEXTILE MASKS



- Smaller market share and only used as particle filter
- re-usable masks
- Generally 3-layer construction
  - Wide variation of fabrics used for each layer
  - Nonwoven are only used as middle layer to increase the filtration capacity
- As a major argument for textile masks, chemical treatment need a certain wash durability
- Limited usage in professional medical application due to the risk of infections after washing

# TEXTILE MASKS

## Recommended TEXTILCOLOR Products

*Ask our technical service for more details*



### Outer Layer

- SEVOPHOB HFK-8
- SEVOPHOB FTU conc
- SEVOPHOB FWU-8
- SEVOPHOB FHK-6
- SEVOPHOB UFK-6
- SEVOPHOB FWB-6

➤ The repellent treatment creates a barrier effect, which reduces the adhesion of hydrophilic droplets and thus lowers the risk of infection

### Inner Layer

- Without chemical treatment to avoid any skin irritation

### Middle Layer

- TC-Bac DURABLE CLEAN
- TC-Bac FRESH

- Reduction of bacteria load
  - Reduction of smell and comfort improvement
  - Improvement of hygiene
- Additional infection protection through an antimicrobial treatment as well as better hygiene and reduced odour



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# MEDICAL FACE MASKS



- Solely nonwoven based
- one-way masks
- Specific standards must be adhered to (many countries have their own standards)\*
- Mostly made out of three different layers:

## Outer Layer

- Thermo or spun-bond nonwoven, PP, PES or mixtures
- Relatively stiff, colouration has no function besides indication of outer layer

## Middle Layer

- Melt-blown or spunlaced nonwoven, PP, PE, CV or mixtures
- Fluffy with high fibre density to provide better filtration effect
- Incorporation of hydrophilic fibres improves absorbency of droplets

## Inner Layer

- Thermo or spun-bond nonwoven, PP, PES or mixtures
- Soft
- Without chemical treatment to avoid any skin irritation

*\*EU standard EN 14683 shows similarity to the US standard ASTM F2100, but in some points really different. Chinese standard GB/T 32610 has similar testing but different rating*



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# PERFORMANCE REQUIREMENT FOR MEDICAL FACE MASKS (EN 14683)

TEST /METHOD	TYPE I	TYPE II	TYPE IIR (Splash resistance)
Bacterial Filtration Efficiency	$\geq 95 \%$	$\geq 98 \%$	$\geq 98 \%$
Breathability (Differential Pressure) (Pa/cm <sup>2</sup> )	$\leq 29.4$	$\leq 29.4$	$\leq 49.0$
Splash resistance (kPa) <i>ISO 22609</i>	na	na	$> 16$
Microbial cleanliness (Bioburden) (cfu/g) <i>EN ISO 11737-1</i>	$\leq 30$	$\leq 30$	$\leq 30$

# MEDICAL FACE MASKS

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# THANK YOU FOR YOUR ATTENTION

Our technical service is available for you at any time for further information



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