

# uvex silv-Air at a glance

## PROTECTION CLASS FFP1

Folding masks    Pre-formed masks



**uvex silv-Air 8100**  
 Type: FFP1 without valve  
 Colour: silver  
 Retail unit: 20 per box  
 Art. no.: 8708.100

**uvex silv-Air 7100**  
 Type: FFP1 without valve  
 Colour: silver grey  
 Retail unit: 20 per box  
 Art. no.: 8707.100



**uvex silv-Air 8110**  
 Type: FFP1 with valve  
 Colour: silver  
 Retail unit: 15 per box  
 Art. no.: 8708.110

**uvex silv-Air 7110**  
 Type: FFP1 with valve  
 Colour: silver grey  
 Retail unit: 15 per box  
 Art. no.: 8707.110



**uvex silv-Air 7120 with carbon**  
 Type: FFP1 with valve  
 Colour: silver anthracite  
 Retail unit: 15 per box  
 Art. no.: 8707.120

## PROTECTION CLASS FFP2

Folding masks    Pre-formed masks



**uvex silv-Air 8200**  
 Type: FFP2 without valve  
 Colour: silver  
 Retail unit: 20 per box  
 Art. no.: 8708.200

**uvex silv-Air 7200**  
 Type: FFP2 without valve  
 Colour: silver grey  
 Retail unit: 20 per box  
 Art. no.: 8707.200



**uvex silv-Air 8210**  
 Type: FFP2 with valve  
 Colour: silver  
 Retail unit: 15 per box  
 Art. no.: 8708.210

**uvex silv-Air 7210**  
 Type: FFP2 with valve  
 Colour: silver grey  
 Retail unit: 15 per box  
 Art. no.: 8707.210



**uvex silv-Air 7220 with carbon**  
 Type: FFP2 with valve  
 Colour: silver anthracite  
 Retail unit: 15 per box  
 Art. no.: 8707.220

## PROTECTION CLASS FFP3

Folding masks    Pre-formed masks



**uvex silv-Air 8310**  
 Type: FFP3 with valve  
 Colour: silver  
 Retail unit: 15 per box  
 Art. no.: 8708.310

**uvex silv-Air 7330**  
 Type: FFP3 with valve/high performance  
 Colour: silver grey  
 Retail unit: 3 per box  
 Art. no.: 8707.330



**uvex silv-Air 7310**  
 Type: FFP3 with valve  
 Colour: silver grey  
 Retail unit: 5 per box  
 Art. no.: 8707.310



**uvex silv-Air 7320 with carbon**  
 Type: FFP3 with valve  
 Colour: silver anthracite  
 Retail unit: 5 per box  
 Art. no.: 8707.320

UVEX ARBEITSSCHUTZ GMBH  
 Würzburger Straße 181-189 ·  
 90766 Fürth  
 P.O. Box 2542 · 90715 Fürth  
 GERMANY

Tel.: +49 911 9736-0  
 Fax: +49 911 9736-1760  
 E-mail: [serviceteam@uvex.de](mailto:serviceteam@uvex.de)  
 Internet: [www.uvex-safety.de](http://www.uvex-safety.de)

UVEX (UK) LIMITED  
 uvex House  
 Farnham Trading Estate  
 Farnham Surrey GU9 9NW  
 GREAT BRITAIN

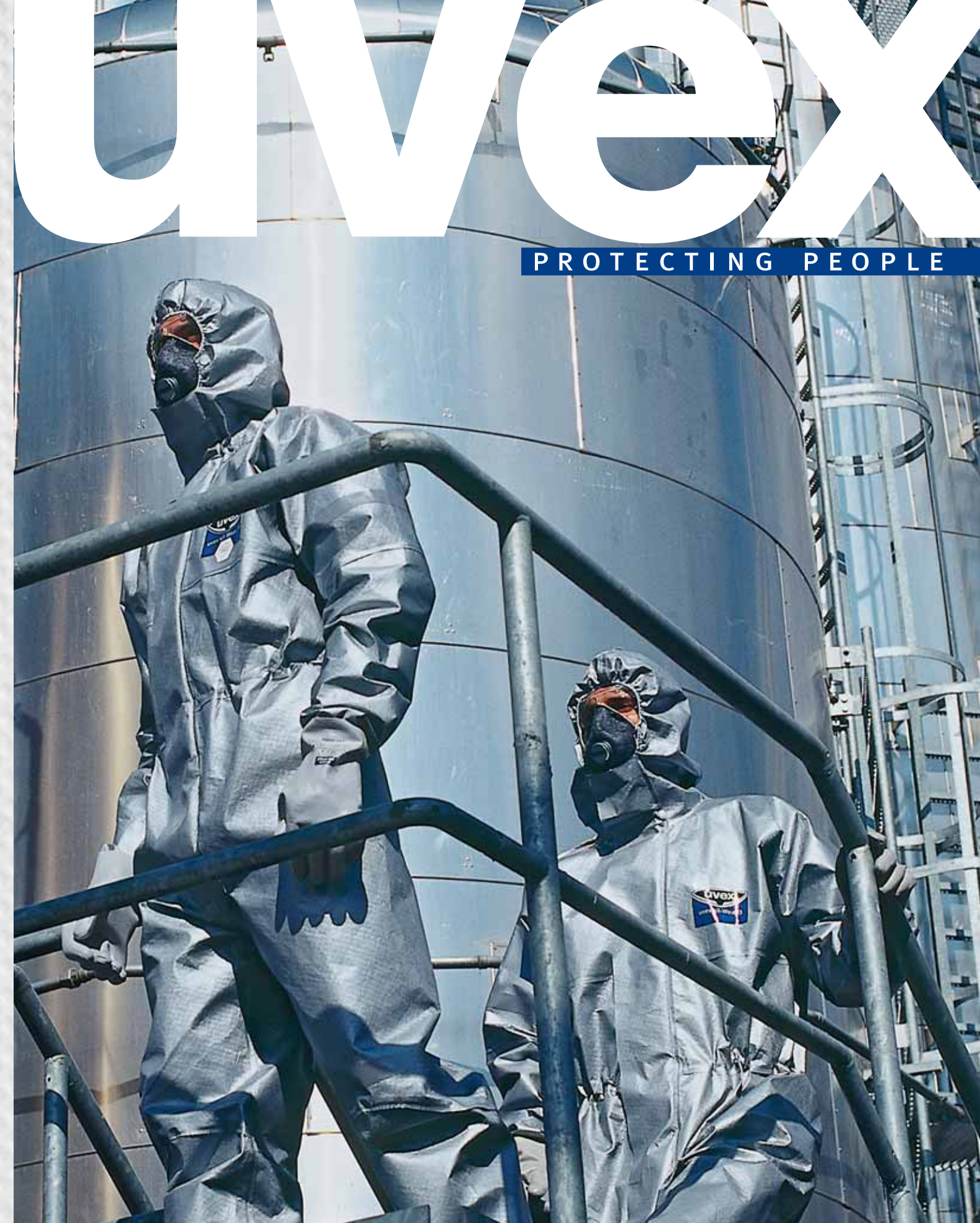
Tel.: +44 1252 73 12 00  
 Fax: +44 1252 73 39 68  
 E-mail: [safety@uvex.co.uk](mailto:safety@uvex.co.uk)  
 Internet: [www.uvex.co.uk](http://www.uvex.co.uk)

UVEX SAFETY AUSTRALIA PTY, LTD.  
 Unit 3, Riverside Centre  
 24-28 River Road West  
 P.O. Box 6144  
 Parramatta NSW 21 50  
 AUSTRALIA

Tel.: +61 2 9891 1700  
 Fax: +61 2 9891 1788  
 E-mail: [info@uvex.com.au](mailto:info@uvex.com.au)

Members of the uvex group

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# uvex

PROTECTING PEOPLE

Protecting  
 Committed to our mission

**uvex silv-Air**  
 uvex silver-System breathing apparatus

# Protecting people

Committed to our mission



Many people are subject to specific hazards in the course of their daily work – including fine dust, noise, falling objects, hazardous chemicals, viruses and bacteria.

Our mission is to protect people from these hazards and as a systems provider with world class manufacturing expertise, we set great store by the protection levels our products provide. Our innovative PPE products provide world-class protection and maximum wearability, so ensuring that people feel comfortable and safe from head to toe. For this reason we consider that individual consultation and knowledge transfer, together with a range of dedicated services is essential to fulfil our commitment to wearers of uvex products.

It is part of our corporate philosophy to develop our ranges continuously over time and our latest product range, uvex silv-Air, is a family of highly functional filtering face masks for a wide variety of applications.

From functional filtering face masks which protect against dust and smoke, to specialised masks that feature additional filters to make breathing noticeably easier. Highly effective as either a folding mask or preshaped mask, uvex silv-Air guarantees reliable protection, even over longer periods of use, thanks to innovative filter technology and a real advance in comfort!

Whatever industry and application the uvex silv-Air range is used in, the wearer will experience a new standard of comfort and fit together with an outstanding level of protection.

uvex sil-Wear is our new collection of disposable protective coveralls for a wide range of requirements and applications and complements the uvex silv-Air range perfectly.

Top-quality, high-tech materials ensure effective protection – even from dangerous viruses and bacteria. An ergonomic cut and advanced design guarantee absolute comfort. For maximum security and functionality, choose uvex sil-Wear in the protection classes 3, 3b, 4, 4b and 5/6.



◀ **uvex silv-Air 7310**  
Type: FFP3 pre-formed mask with valve  
Colour: silver grey  
Retail unit: 5 per box  
Art. no.: 8707.310

## TYPICAL AREAS OF APPLICATION FOR FFP3 FILTERING FACE MASKS

Masks of the FFP3 class should be used in applications such as welding and soldering, environments with a high concentration of very dangerous, microscopic dust, and working with chemical compounds.

**uvex silv-Air 7320** ▶  
Type: FFP3 pre-formed mask with valve/carbon  
Colour: silver anthracite  
Retail unit: 5 per box  
Art. no.: 8707.320



## 1 FFP1 FILTERING FACE MASKS

All FFP1 filtering face masks provide reliable protection against dust up to **4 times** the threshold value (MAK\*) and are available with or without a valve.

## 2 FFP2 FILTERING FACE MASKS

All FFP2 filtering face masks provide reliable protection against dust up to **10 times** the threshold value (MAK\*, TRK\*\*) and are available with or without a valve.

## 3 FFP3 FILTERING FACE MASKS

All FFP3 filtering face masks provide reliable protection against dust up to **30 times** the threshold value (MAK\*, TRK\*\*) and are only available with a valve.

# Technology

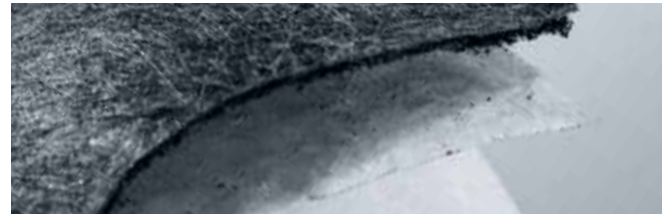
*uvex silv-Air – high-performance filter, low breathing resistance*

## 1 HOW PARTICLE-FILTERING FACE MASKS WORK

Particle-filtering face masks protect against solid aerosols. The densely woven filter fabric prevents solid materials from passing through due to their particle size. The internal layers are electrostatically charged, so hazardous materials adhere to them and cannot be inhaled.

In environments with a high volume of hazardous materials, masks can “clog-up” during use. Breathing resistance increases as the 15<sup>th</sup> volume of particulates

is absorbed by the filter material and when breathing becomes difficult the old mask should be replaced.



Filter layers

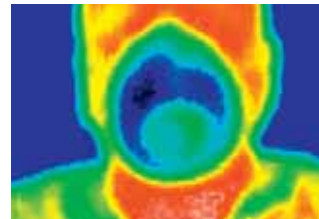
## 2 BREATHING RESISTANCE

In addition to an excellent fit and soft material edges, low breathing resistance is the key factor in determining mask comfort and therefore the willingness to wear a particle-filtering face mask.

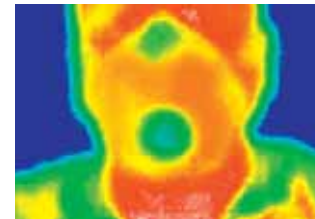
The carefully chosen combination of highly functional filter materials used in the uvex silv-Air range provides maximum protection while making breathing easier.

Thermal imaging of the silv-Air pre-formed mask

(art. no. 8707.210, FFP2 with exhalation valve) illustrates the functionality of the filter materials while breathing.



Inhaling – cool surrounding air (blue) is inhaled



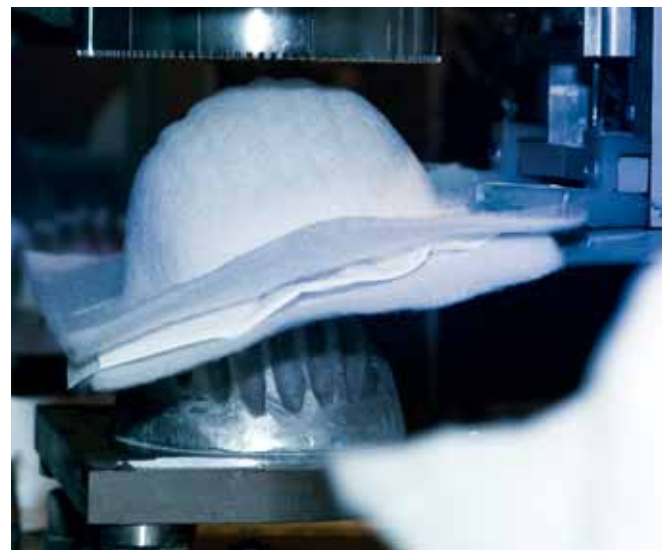
Exhaling – warm air (orange-red) is exhaled

## 3 MATERIALS AND PROCESSING

The uvex silv-Air range was developed specifically with comfort in mind. uvex fine-dust filter technology ensures the individual layers “clog-up” at a slower rate.

All products have successfully passed the penetration test under controlled temperature conditions in accordance with EN 149.

All products also bear the “D” symbol, which confirms that the masks can absorb an extremely high volume of materials with only a minimum increase in breathing resistance. The “D” symbol is defined by the absorption (7.17) of dolomite dust in the EN 149 standard.

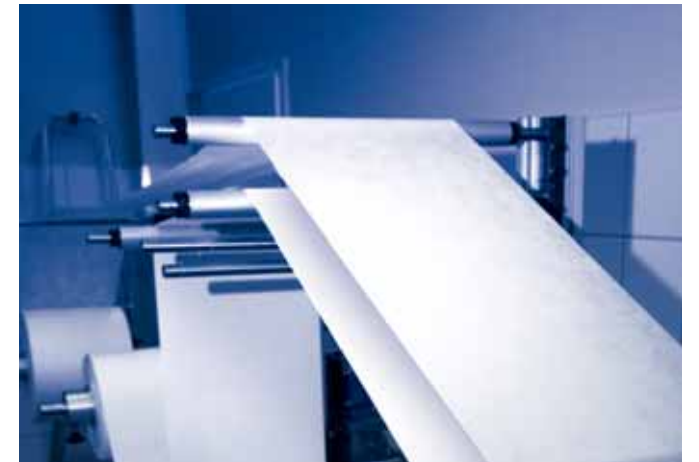


# Manufacturing expertise

*The logical consequence of delivering our mission*

UVEX SAFETY GROUP GmbH & Co. KG is expanding its areas of expertise in the production of personal protective equipment with a strategic partnership with a European manufacturer of fleece.

Access to the entire value chain enables the use of innovative, high-quality materials, while continuous development of manufacturing processes guarantees disposable face masks of the highest quality.



# uvex silv-Air FFP3 climatec

*Conformation of our technological expertise*



The FFP3 climatec mask’s three-chamber system offers maximum filter performance with low breathing resistance. Two additional filter chambers expand the filter surface, extending the length of time the mask can be used safely and effectively.

climatec comfort technology provides effective temperature regulation inside the mask. Two inhalation/ exhalation valves control the exchange of air inside the mask and ensure pleasant breathing conditions. The all-round comfort sealing lip, made of a non-irritating, soft material; specially manufactured for uvex, allows a better fit for the face and prevents safety eyewear from fogging up when you breathe out.

**climatec**

# Division of protection classes

An overview of breathing protection classes

## PROTECTION CLASS FFP1

Folding masks    Pre-formed masks



uvex silv-Air 8100    uvex silv-Air 7100



uvex silv-Air 8110    uvex silv-Air 7110



uvex silv-Air 7120 with carbon

## PROTECTION CLASS FFP2

Folding masks    Pre-formed masks



uvex silv-Air 8200    uvex silv-Air 7200



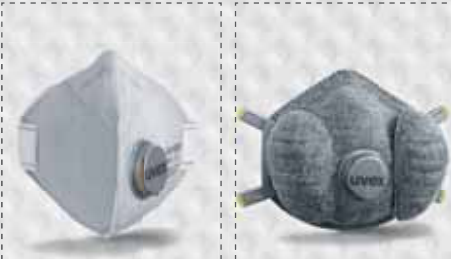
uvex silv-Air 8210    uvex silv-Air 7210



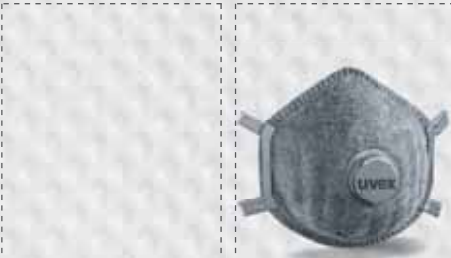
uvex silv-Air 7220 with carbon

## PROTECTION CLASS FFP3

Folding masks    Pre-formed masks



uvex silv-Air 8310    uvex silv-Air 7330



uvex silv-Air 7310



uvex silv-Air 7320 with carbon

### uvex silv-Air FFP1

All FFP1 filtering face masks provide reliable protection against hazardous materials up to **4 times** the threshold value (MAK\*) and are available with or without a valve.

### uvex silv-Air FFP2

All FFP2 filtering face masks provide reliable protection against hazardous materials up to **10 times** the threshold value (MAK\*, TRK\*\*) and are available with or without a valve.

### uvex silv-Air FFP3

All FFP3 filtering face masks provide reliable protection against hazardous materials up to **30 times** the threshold value (MAK\*, TRK\*\*) and are only available with a valve.

The uvex silv-Air filtering face mask range is suitable for protection against solid and liquid aerosols, dust, mist and smoke, but does not provide sufficient protection against gases and steams above the threshold level!

All filtering face masks have been tested and certified in accordance with EN 149, "Respiratory protective devices, filtering half masks to protect against particles." They conform to the EU guideline 89/686/EEC.

They are classified under the protection factor classes P1, P2 or P3 according to the filter performance and leakage value.

\* MAK = maximum concentration at the workplace: MAK values are determined by the German Commission for the Investigation of Health Hazards of Chemical Compounds in the Work Area.

\*\* TRK = technical reference concentration: the concentration of a hazardous material that can be contained by the latest technology. TRK values are applied to carcinogenic materials for which there is no MAK value available. A health risk cannot be completely ruled out.

# Guide for norms and products

## PERFORMANCE PARAMETERS, MATERIALS/APPLICATIONS

PRODUCTS	FFP 1	FFP 2	FFP 3
Asbestos: shorter periods of work, taking samples			x
Work with fungal spores, bacteria and powder			x
Radioactive particles			x
Using pesticides (particles)			x
Laying insulation material (e.g. fibreglass)		x	
Quartz dust (stonemasonry)		x	
Sanding, cutting, milling, drilling, angle grinding, sawing		x	
Cement dust	x		
Power plant retrofitting and filter cleaning		x	
Wood processing (oak, beech, tropical)			x
Refuse incineration (dioxins/furans)			x
Flour dust (food industry)	x		
Demolishing walls, stone, concrete	x		
Paper dust (printing)	x		
Fine coal particles in power plants	x		
Sewage treatment		x	
Mining		x	
Battery production			x
Welding aluminium materials			x
Soldering, welding, casting			x
Light facade maintenance	x		
Resin and adhesive processing (with sufficient ventilation)		x	
Infectious agents (contact with blood)			x
Cooling lubricants (pressing, drawing, drilling)		x	
Applying pesticides (particles)			x
Cytostatics (cancer therapy)			x
Hospitals/emergency medical assistance			x
Airborne influenza infections (medical staff, work with coughing patients, bronchoscopies, intubation and suction)			x
Agricultural and forestry		x	
Refuse separation, recycling (bacteria, spores, odours)		x	

These filter classes are minimum requirements and only serve as a guide. It is the wearers' responsibility to make sure the breathing apparatus conforms to the requirements in terms of hazardous materials and concentration!

## PARTICLE FILTERS ARE DIVIDED INTO THREE CLASSES:

- FFP 1** for particles that are neither toxic nor associated with fibrosis. For protection of up to 4 times the corresponding threshold value (MAK\*).
- FFP 2** for hazardous or harmful particles, steam and smoke; filters for solid and liquid particles with a medium filtering level. For protection of up to 10 times the corresponding threshold value (MAK\*, TRK\*\*).
- FFP 3** for poisonous particles, steam and smoke; filters for solid and liquid aerosols with a high filtering classification. For protection of up to 30 times the corresponding threshold value (MAK\*, TRK\*\*).



Three-dimensional, optimised shape, which combines well with safety goggles

1



All-round soft material edges for real comfort and an excellent fit

2



Seamless headband prevents pressure points

3

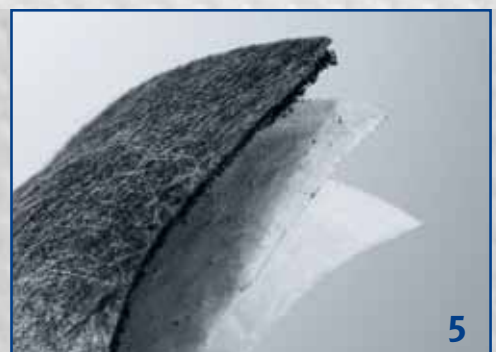


All FFP1 models are completely metal-free

4

**PRODUCT DESCRIPTION**

- Innovative design with an optimised shape
- Soft material edges for greater comfort
- Seamless, continuous headband for a comfortable, secure fit
- Exhalation valve to reduce the build-up of heat and moisture inside the mask
- Mask fulfils the requirements of the dolomite dust test
- Pre-formed masks are highly compatible with safety goggles thanks to the optimised design of the nose area (spacing on the left and right-hand side of the nose)
- Active carbon filter to counteract odours, gases and steam below the threshold value (silv-Air 8707.120)



Pre-formed mask also available with active carbon filter to counteract unpleasant odours

5



Folding model with V-contour seam for an exceptional fit (with or without exhalation valve)

**uvex silv-Air 7120 with carbon**  
**Type:** FFP1 with valve  
**Colour:** silver anthracite  
**Retail unit:** 15 per box  
**Art. no.:** 8707.120



**uvex silv-Air 8110**  
**Type:** FFP1 folding mask  
 with valve  
**Colour:** silver  
**Retail unit:** 15 per box  
 ▶ **Art. no.:** 8708.110

**uvex silv-Air 7110** ▶  
**Type:** FFP1 pre-formed  
 mask with valve  
**Colour:** silver grey  
**Retail unit:** 15 per box  
**Art. no.:** 8707.110



**uvex silv-Air 8100**  
**Type:** FFP1 folding mask  
 without valve  
**Colour:** silver  
**Retail unit:** 20 per box  
**Art. no.:** 8708.100

▶ **uvex silv-Air 7120 with carbon**  
**Type:** FFP1 pre-formed  
 mask with valve  
**Colour:** silver anthracite  
**Retail unit:** 15 per box  
**Art. no.:** 8707.120



**uvex silv-Air 7100** ▶  
**Type:** FFP1 pre-formed  
 mask without valve  
**Colour:** silver grey  
**Retail unit:** 20 per box  
**Art. no.:** 8707.100

**TYPICAL AREAS OF APPLICATION FOR FFP1 FILTERING FACE MASKS**

Masks of the protection class FFP1 have a wide field of use including applications in the food industry, stonemasonry and cement work, construction and softwood processing.





Wide headband for consistent pressure distribution and a comfortable fit



Fulfils the requirements of the dolomite dust test



Soft, smooth edge for real comfort and excellent fit



Ergonomic shape guarantees a close fit without metal clips or a sealing lip

PRODUCT DESCRIPTION

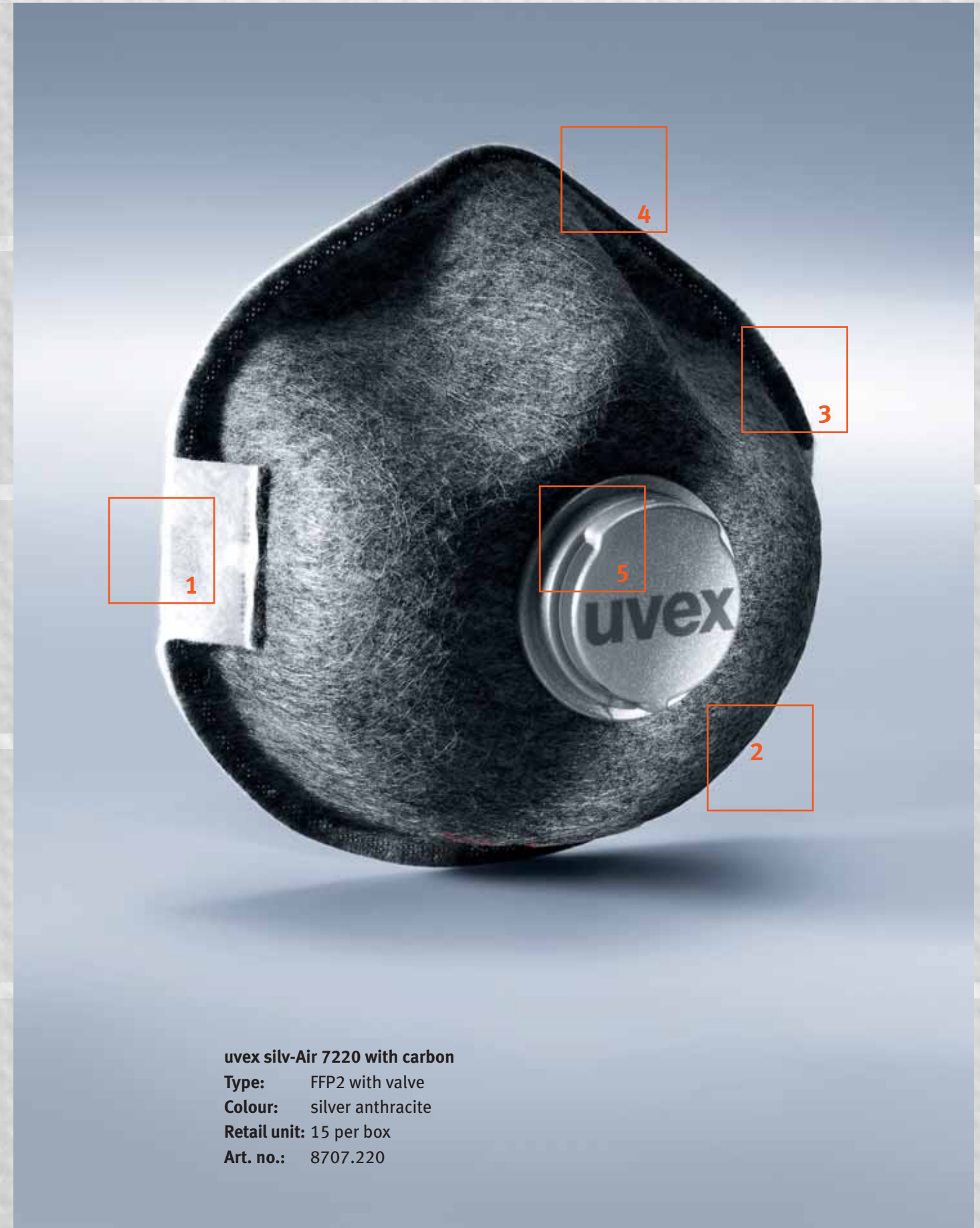
- Innovative design with an optimised shape
- Soft material edges for greater comfort
- Seamless, continuous headband for a comfortable, secure fit
- Manufactured without plastic or metal parts (pre-formed mask)
- Exhalation valve to reduce the build-up of heat and moisture inside the mask
- Mask fulfils the requirements of the dolomite dust test
- Pre-formed masks are highly compatible with safety goggles thanks to the optimised design of the nose area (spacing on the left and right-hand side of the nose)
- Active carbon filter to counteract odours, gases and steam below the threshold value (silv-Air 8707.220)



Pre-formed mask also available with active carbon filter against unpleasant odours



Folding model with V-contour seam for an exceptional fit (with or without exhalation valve)



uvex silv-Air 7220 with carbon  
 Type: FFP2 with valve  
 Colour: silver anthracite  
 Retail unit: 15 per box  
 Art. no.: 8707.220



**TYPICAL AREAS OF APPLICATION FOR FFP2 FILTERING FACE MASKS**

Masks of the protection class FFP2 can be used in areas such as mining, the metalworking industry, shipyards and wood processing.



◀ **uvex silv-Air 8210**  
**Type:** FFP2 folding mask with valve  
**Colour:** silver  
**Retail unit:** 15 per box  
**Art. no.:** 8708.210



**uvex silv-Air 7210** ▶  
**Type:** FFP2 pre-formed mask with valve  
**Colour:** silver grey  
**Retail unit:** 15 per box  
**Art. no.:** 8707.210



**uvex silv-Air 8200** ▶  
**Type:** FFP2 folding mask without valve  
**Colour:** silver  
**Retail unit:** 20 per box  
**Art. no.:** 8708.200



◀ **uvex silv-Air 7220 with carbon**  
**Type:** FFP2 pre-formed mask with valve  
**Colour:** silver anthracite  
**Retail unit:** 15 per box  
**Art. no.:** 8707.220



**uvex silv-Air 7200** ▶  
**Type:** FFP2 pre-formed mask without valve  
**Colour:** silver grey  
**Retail unit:** 20 per box  
**Art. no.:** 8707.200





**PRODUCT DESCRIPTION**

- High-performance, three-chamber climatec system
- Innovative design with an optimised shape
- 4-point headband for a comfortable, secure fit
- Integrated, flexible, adjustable nosepiece
- 2 extra filters with inhalation valve provides low breathing resistance and increased comfort
- Mask fulfils the requirements of the dolomite dust test and therefore has lower breathing resistance during longer periods of use
- Ultra soft, all-round sealing lip



Two extra filters increase the surface area and therefore the absorption volume



Fulfils the requirements of the dolomite dust test which extends the useful life of the product



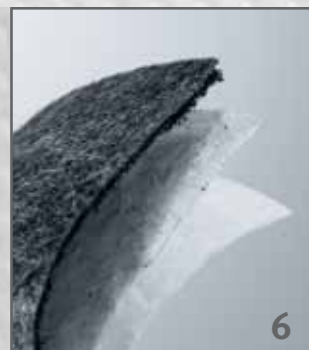
Two integrated inhalation valves optimise the flow of air creating a stable and comfortable climate within the mask



All-round, comfortable sealing lip prevents safety goggles from fogging up during exhalation



Flexible 4-point headband attachment for a comfortable fit



Pre-formed mask also available with active carbon filter to counter unpleasant odours



Folding model with exhalation valve

V-contour seam for an exceptional fit



**uvex silv-Air 7330 climatec**  
**Type:** High-performance pre-formed mask FFP3 three-chamber system  
**Colour:** silver grey  
**Retail unit:** 3 per box  
**Art. no.:** 8707.330

**climatec**

The uvex silv-Air 7330 is one of the latest uvex climatec products and lives up to the high standards of comfort that uvex demands of its products.



**uvex silv-Air 7330 climatec** ▶  
**Type:** High-performance pre-formed mask FFP3 three-chamber system  
**Colour:** silver grey  
**Retail unit:** 3 per box  
**Art. no.:** 8707.330

**PRODUCT DESCRIPTION**

- Innovative design with an optimised shape
- Soft material edges for greater comfort
- Exhalation valve to reduce the build-up of heat and moisture within the mask
- Mask fulfils the requirements of the dolomite dust test
- Compatible with wide-vision goggles thanks to the optimised design of the nose area
- Active carbon filter to counteract odours, gases and steam above the threshold value (silv-Air 7320)
- All-round, comfortable sealing lip prevents safety goggles from fogging up



**uvex silv-Air 8310** ▶  
**Type:** FFP3 folding mask with valve  
**Colour:** silver  
**Retail unit:** 15 per box  
**Art. no.:** 8708.310