

uvex

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DELTA
HEALTH AND SAFETY EQUIPMENT

uvex silv-Airc

Filtering face masks

protecting people

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uvex silv-Air c

An overview of breathing protection classes

Breathing Protection

Exposure to chemicals, fumes, dusts and fibres at work can, under some circumstances, have a detrimental effect on health. Known as 'hazardous substances', exposure if not properly controlled, may cause immediate and long-term health problems.

It is important to remember that when it comes to RPD, one size does not fit all. RPD is available in different sizes to ensure that the sealing surface of the respirator matches different facial features. Gender, ethnicity, build and many other factors mean that one size of facepiece will not fit everyone.

Types of RPD

There are two main types of RPD:

- **Respirators** - (particle filtering face masks) - use filters to remove contaminants from the air being breathed in, and
- **Breathing Apparatus** – the supply of breathing-quality air from an independent source (e.g. air cylinder or air compressor)

uvex only offers disposable particle filtering face masks.

How particle-filtering face masks work

Particle-filtering face masks offer effective protection against dust, mist, smoke and microorganisms from the air flowing through them.

The densely woven filter fabric prevents solid and liquid particles (mists, fine sprays and aerosols) from passing through and the internal layers are electrostatically charged to ensure that hazardous materials adhere to them and cannot be inhaled.

Respirators are given an 'Occupational Exposure Limit' or OEL classification to help the wearer select the right level of protection provided they are fitted and used correctly.



uvex silv-Air c

High performance filter, low breathing resistance technology

Assigned protection factors:

There are 2 different classes of respirator, colour coded to make selection easier:

	FFP2 Respirators	FFP2 Carbon Layered Respirators	FFP3 Respirator
Assigned Protection Factor APF	OEL 10	OEL 10	OEL 30
Typical Applications	Moderate level fine dust/ oil or water based mists (plastering, cement, sanding and wood dust)	Options for metal fume, ozone and nuisance levels of certain gases and vapours	Higher level fine dust/ oil or water based mists (hazardous pharmaceutical powders, biological agents and fibres)
Easy Identification	Identified by orange lettering on the mask		Identified by black lettering on the mask

An FFP2 respirator should reduce exposure to airborne particles by a factor of 10, and an FFP3 by a factor of 30.

Employers should make sure the selected RPD is of the right size and can correctly fit the wearer. For tight-fitting facepieces the initial selection should include a fit test. For more information, turn to the back page.

Comfort and Fit

The many design features of the uvex silv-Air c range have been developed with the wearers comfort in mind. These include:

- field of vision
- design and materials
- size, weight and balance
- compatibility with other PPE
- pressure points
- ease of adjustment and secure fitting
- heat and moisture build up, and
- breathing resistance



Depending on the model, the soft foam or PE sealing lip allows the wearer to achieve a customised seal without risk of leakage.

Breathing resistance

The carefully chosen combination of highly functional filter materials and the uvex fine-dust filter technology ensures that the individual layers 'clog up' at a slower rate offering maximum protection and making breathing easier.

The exhalation valve with an ultra thin membrane is ideally situated for maximum efficiency and increased speed of opening and closing. This supports the easy transfer of humidity and reduced breathing resistance helping to improve the internal mask climate.

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

All products carry the 'D' symbol, which confirms that the masks can absorb high volumes 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 149:2001 + A1:2009 standard.

In addition, the masks meet the highest international standards: NIOSH, AUS/NZ, SABS & GOST certified.

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An overview of breathing protection standards

EN149:2001+A1:2009

Respiratory protective devices – filtering half-masks for protection against particles

All uvex respirators are tested and approved in accordance with the European standard 149. This standard sets out a wide range of requirements for respirators, with the aim of providing the user with the highest level of protection and comfort.

The key tests defined in EN149 are:

- **measuring inhalation and exhalation resistance**
- **testing the exhalation valve**
- **visual inspection (marking, instructions for use)**
- **determining the filtering efficiency (protection class)**
- **optional: carrying out the dolomite dust test**

Detailed information about the standards and guidelines for respiratory protection is available here:



The standard divides respirators into three protection classes according to their filtering efficiency and leakage:

FFP1

FFP1 respirators have a filtering capacity of at least 80% and filter up to four times the respective occupational exposure limit (OEL*). These masks are suitable for particles that are neither toxic nor fibrogenic.

FFP2

FFP2 respirators are suitable for smoke, particles and dusts that are noxious or harmful to health. They filter at least 94% of particles and can be used up to ten times the respective occupational exposure limit (OEL*).

FFP3

With a filtering efficiency of at least 99%, FFP3 masks constitute the highest protection class. They filter up to 30 times the respective occupational exposure limit (OEL*) and are suitable for protecting against toxic particles, dusts and smoke.



So that you can see the protection class at a glance, the marking is blue on FFP1 masks, orange on FFP2 masks and black on FFP3 masks.



In addition to the standard tests, all uvex masks fulfil the additional requirement of the dolomite dust test and are therefore marked with the letter D. Therefore the uvex respiratory protection products ensure an excellent breathability, even in extremely dusty environments and during prolonged use.

All uvex respirators are in line with current EU legislation. All respiratory protective devices fall into PPE category III (high risks).

* OELs = The occupational exposure limit values (OELs) are the average concentration of a substance in the air in the workplace, up to which no damage (chronic or acute) is to be expected if employees work there for eight hours a day for five days a week. The OELs replace the maximum workplace concentration (MWC) and the technical reference concentration (TRC) – however, as long as both of these values are not yet fully taken into account in the OELs, they can still be used on an interim basis for assessing risks in the workplace.

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Areas of application

Activity	Harmful substances	Protection class		
		FFP1	FFP2	FFP3
Wood processing				
Softwood: cutting and sanding	Fine particles, wood dust			
Hard wood (oak, beech, tropical woods, etc.): cutting and sanding	Fine particles, wood dust			
Brushing/sanding paint	Fine colour particles			
Brushing/sanding paint (paints containing chrome)	Fine colour particles			
Soluble paints containing copper/chrome/arsenic	Fine paint mist			
Construction and ancillary building industry				
Cement work, plastering, tiling, roofing	Cement, plaster, tile or brick dust			
Masonry: cutting, drilling, demolition				
Asbestos: short periods of work	Fibres			
Roof insulation: glass and mineral fibres	Dust and fibres			
Bodyfillers/stopper: Grinding	Dust			
Welding				
Welding aluminium and stainless steel	Metal and aluminium oxide fumes			
Brazing	Fumes			
Metalwork				
Metal: drilling, grinding, milling, angle grinding	Metal dust			
High-alloy steels and stainless steels: drilling, grinding, milling, angle	Metal dust			
Waste disposal and cleaning				
Refuse separation and disposal	Dust, fungi			
Medical waste disposal	Bacteria, spores			
Sweeping floors	Dust (non-toxic)			
Radioactively contaminated particles	Dust			
Agriculture				
Animal epidemics and treatment of animals with diseases	Bacteria, viruses			
Work with fungal spores	Spores			
Work with hay, grain and flour	Dust			
Medicine/care/health				
Allergies, pollen, household dust, animal fur	Dust, particles, spores			
Bacteria, viruses, infections, legionella bacteria	Bacteria, viruses			



Eyewear and mask combinations:
Which is the perfect combination of mask and spectacles?



Mask fitment:
Do you know how to fit your mask correctly?
Download our mask fitment guide here.

uvex silv-Air c
Protection class FFP2 filtering face masks



FFP2

- The innovative ori-nasal design of the nose bridge and the soft seal contours to any facial shape
- Soft material edges for greater comfort and wearer acceptance
- Seamless headband for a comfortable, secure fit
- Exhalation valve for easy airflow exchange which reduces the build-up of heat and moisture inside the mask
- Adjustable nose clip ensures an excellent individual fit
- Mask fulfils the requirements of the dolomite dust test
- Design ensures a compatible fit with uvex eyewear
- Upper face seal offers both secure positioning and comfort
- Activated carbon filter, suitable for welding applications available in the FFP2 (silv-Air c 2220) option

Product code 8732210
uvex silv-Air c 2210



Seamless headband
can be adjusted for an
optimum fit.



Exhalation valve
with a 360° opening ensures very low
breathing resistance and a cooling
effect climate inside the mask.



Adjustable nose clip
ensures an excellent individual
fit and secure positioning.



Upper face seal
offers both a more secure positioning of the
mask and increased wearer comfort.

uvex silv-Air c
Protection class FFP2 filtering face masks



FFP2

Product code 8762200
NRCS/8072/0438

uvex silv-Air c 2200

- Particle-filtering preformed mask
- Seamless headband and flexible, adjustable nose clip for a comfortable, secure fit
- Comfortable sealing lip in nose area for secure fit

	uvex silv-Air c 2200
Product code	8762200
Version	FFP2 NR D preformed mask with valve
Colour	white
Order quantity	15 PC
Content	15 PC, packed in BOX



FFP2

Product code 8762210
NRCS/8072/0437

uvex silv-Air c 2210

- Particle-filtering preformed mask with exhalation valve
- Seamless headband and flexible, adjustable nose clip for a comfortable, secure fit
- Comfortable sealing lip in nose area for secure fit
- Exhalation valve to further reduce breathing resistance, by helping to minimise moisture build up inside the mask

	uvex silv-Air c 2210
Product code	8762210
Version	FFP2 NR D preformed mask valve & carbon
Colour	silver
Order quantity	15 PC
Content	15 PC, packed in BOX



FFP2

Product code 8762220
NRCS/8072/0435

uvex silv-Air c 2220

- Particle-filtering preformed mask with exhalation valve
- Additional activated carbon filter against odours, gases and vapours below threshold
- Seamless headband and flexible, adjustable nose clip for a comfortable, secure fit
- Comfortable sealing lip in nose area for secure fit
- Exhalation valve to further reduce breathing resistance, by helping to minimise moisture build up inside the mask

	uvex silv-Air c 2220
Product code	8762220
Version	FFP2 NR D preformed mask without valve
Colour	white
Order quantity	20 PC
Content	20 PC, packed in BOX



FFP2

Product code 8763200
NRCS/8072/0441

uvex silv-Air c 3200

- Particle-filtering folding mask
- Seamless headband and flexible, adjustable nose clip
- Comfortable sealing lip in nose area for secure fit

	uvex silv-Air c 3200
Product code	8763200
Version	FFP2 NR D folding mask without valve
Colour	white
Order quantity	30 PC
Content	30 PC, individually packed in BOX



FFP2

Product code 8763210
NRCS/8072/0439

uvex silv-Air c 3210

- Particle-filtering folding mask with exhalation valve
- Seamless headband and flexible, adjustable nose clip
- Comfortable sealing lip in nose area for secure fit
- Exhalation valve to further reduce breathing resistance, by helping to minimise moisture build up inside the mask

	uvex silv-Air c 3210
Product code	8763210
Version	FFP2 NR D folding mask with valve
Colour	white
Order quantity	15 PC
Content	15 PC, individually packed in BOX



FFP2

Product code 8763220
NRCS/8072/0440

uvex silv-Air c 3220

- Particle-filtering folding mask with exhalation valve
- Additional activated carbon filter against odours, gases and vapours below threshold
- Seamless headband and flexible, adjustable nose clip
- Comfortable sealing lip in nose area for secure fit
- Exhalation valve to further reduce breathing resistance, by helping to minimise moisture build up inside the mask

	uvex silv-Air c 3220
Product code	8763220
Version	FFP2 NR D folding mask with valve and carbon
Colour	silver
Order quantity	15 PC
Content	15 PC, individually packed in BOX

uvex silv-Air c

Protection class FFP3 filtering face masks // **APF 20**

FFP3

uvex silv-Air c FFP3 filtering folding face mask

- The innovative ori-nasal design of the nose bridge and the soft seal contours to any facial shape
- Soft material edges for greater comfort
- Exhalation valve for easy airflow exchange which reduces the build-up of heat and moisture inside the mask
- Adjustable nose clip to ensure an excellent individual fit
- Mask fulfils the requirements of the dolomite dust test
- Compatible with uvex safety eyewear
- The soft foam sealing lip reduces the risk of leakage and promotes a proper fit



Product code 8733310
uvex silv-Air c 3310

uvex silv-Air c FFP3 filtering pre-formed face mask

- The innovative ori-nasal design of the nose bridge and the soft seal contours to any facial shape
- Soft material edges for greater comfort
- 4-point headband for a comfortable, secure fit
- Exhalation valve for easy airflow exchange which reduces the build-up of heat and moisture inside the mask
- Adjustable nose clip to ensure an excellent individual fit
- Mask fulfils the requirements of the dolomite dust test
- Compatible with uvex safety eyewear
- Soft all-round sealing lip for a secure fit and high level of wearer comfort



Product code 8732310
uvex silv-Air c 2310



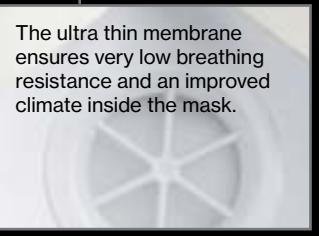
The looped headband system is easy to adjust and offers a high level of wearer comfort.



The 4-point headband allows the mask to be adjusted to the wearer, giving an individual comfortable and secure fit.



The adjustable nose clip ensures an excellent individual fit and secure positioning.



The ultra thin membrane ensures very low breathing resistance and an improved climate inside the mask.



The concealed and adjustable nose clip ensures an excellent individual fit.



The soft material edges prevent uncomfortable pressure points.



The complete all-round sealing lip improves both the positioning and comfort.

uvex silv-Air c

Protection class FFP3 filtering face masks

FFP3



Product code 8762310
NRCS/8072/0443

uvex silv-Air c 2310

- Particle-filtering preformed mask with exhalation valve for **larger face shapes**
- Four-point headband attachment and flexible, adjustable nose clip for a comfortable, secure fit
- Very soft, all-around sealing lip for optimal wearer comfort and secure fit
- Exhalation valve to further reduce breathing resistance, by helping to minimise moisture build up inside the mask

	uvex silv-Air c 2310
Product code	8762310
Version	FFP3 NR D preformed mask with valve – large version
Colour	white
Order quantity	15 PC
Content	15 PC, packed in BOX

FFP3



Product code 8762320
NRCS/8072/0445

uvex silv-Air c 2320

- particle-filtering preformed mask with exhalation valve for **larger face shapes**
- Four-point headband attachment and flexible, adjustable nose clip for a comfortable, secure fit
- Very soft, all-around sealing lip for optimal wearer comfort and secure fit
- Exhalation valve to further reduce breathing resistance, by helping to minimise moisture build up inside the mask
- Additional activated carbon filter against odours, gases and vapours below threshold values

	uvex silv-Air c 2320
Product code	8762320
Version	FFP3 NR D preformed mask with valve and carbon – large version
Colour	silver
Order quantity	15 PC
Content	15 PC, packed in BOX

FFP3



Product code 8763310
NRCS/8072/0435

uvex silv-Air c 3310

- Particle-filtering folding mask with exhalation valve
- Adjustable headband and flexible, adjustable nose clip for a comfortable, secure fit
- Comfortable, all-around sealing lip for secure fit
- Exhalation valve to further reduce breathing resistance, by helping to minimise moisture build up inside the mask

	uvex silv-Air c 3310
Product code	8763310
Version	FFP3 NR D folding mask with valve
Colour	white
Order quantity	15 PC
Content	15 PC, individually packed in BOX

Manufacturing and design expertise

uvex design and technology

The true wearability of PPE is when two or more items are worn together.

Our decades of experience in developing and producing personal protective equipment across multiple product groups allows uvex to combine expertise and deliver integrated design concepts that ensure the wearability and compatibility of our PPE.

This is certainly true when it comes to combining eyewear and respiratory protection. The mask designs have been influenced by uvex safety eyewear to ensure they fit and work together to provide uncompromised protection levels and enhanced performance. Together these two cost effective solutions deliver an unmistakable partnership – after all, if PPE works and is comfortable, it's more likely to get worn.

Our development has also allowed us to design our RPD to achieve the best possible fit which in turn provides extremely high results when it comes to face fit testing.

Taking the example of the uvex sportstyle and uvex silv-Air c 3310 folding face mask opposite*, the combination of the two products works as follows:

* Alternative spec or goggle and mask options are available.



The spectacle lens sits outside of the mask ensuring no downward pressure dislodging the mask position.



The 3D preformed mask shape gives an exceptional mask/face seal and the lens curvature reduces any gap between the eyes and the spectacle.



Feather-light with a weight of only 23 grams uvex sportstyle are significantly lighter than conventional safety spectacles giving optimised optical clarity and no pressure when wearing both products.



The uvex sportstyle boasts an adjustable nose piece and soft anti-slip ear pieces (uvex duo component technology) ensuring a pressure-free fit. The wearer is able to maintain the exact position of the spec and mask even during strenuous tasks.



The low profile headband and ultra lightweight thin spectacle arm combination enhances compatibility with other items of PPE such as ear defenders and helmets.



uvex unique anti-fog lens coating keeps the lens fog-free particularly during strenuous activity when body heat can intensify while wearing a mask. Applied to both sides of the lens.

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