uvex




# Disposable Protective Clothing

protecting people

uvex

# Disposable Protection Clothing

## Guide to standards and products

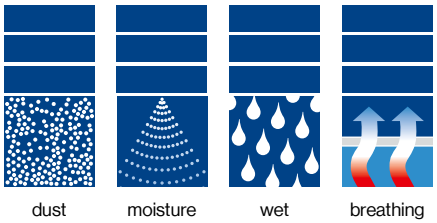


| | | uvex 5/6 air | uvex 5/6 air | uvex 5/6 comfort light | uvex 5/6 comfort | uvex 5/6 classic light | uvex 5/6 classic | uvex 4B | uvex 3B chem light | uvex 3B chem classic | uvex 3B chem classic+ |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | 98173 | 89976 | 88497 | 98710 | 17595 | 98449 | 98375 | 89843 | 89880 | 88498 |
| EN 14605 | Liquid-tight coveralls | | | | | | | | ■ | ■ | ■ |
| EN 14605 | Spray-tight coveralls | | | | | | | ■ | ■ | ■ | ■ |
| EN 13034 | Limited spray-tight coveralls (protection against liquid mist) | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | | |
| ISO 13982-1 | Particle-tight coveralls (protection against solid particles) | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ |
| EN 1149-5 | Protective clothing with antistatic properties (antistatic function only guaranteed if air humidity > 25%) | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ |
| EN 14126 | Protective clothing against infective agents | | | | | ■ | ■ | ■ | ■ | ■ | ■ |
| EN 1073-2 | Protective clothing against particulate radioactive contamination (no protection against radioactive rays) | ■ | ■ | ■ | | ■ | ■ | ■ | ■ | ■ | ■ |
| ISO 27065 | Protective clothing for use with pesticides | | | | | | | | ■ | | |

For more detailed information, please see the relevant certificates, technical data sheets or the endorsement on the product!

### Defining environmental conditions

Are you exposed to dusty, damp or wet conditions during your work?
To make it easier for you to select the right clothing for the job, we've categorised our overalls depending on their suitability for these environments. The bars indicate how suitable the product is for each setting.
We also provide information on breathability so that you can take wearer comfort into account in your decision.




### Identifying additional characteristics

In some work environments, there are additional requirements that you will need to take into account. These symbols indicate whether the items are free from silicone and paint wetting impairment substances.



# Disposable protective clothing

## Type 4 and Type 5/6 features and technologies

1

### 3 pieced hood

- optimum fit
- no limitations of view
- perfect match with resirators and goggles
- soft elastic on edge, feels comfortable

2

### Zipper flap

- Zipper flap with integrated self adhesive tape
- easy to gum up
- additional security

3

### Fingerloop

- finger loops made of soft elastic
- to keep the sleeves at the wrist
- additional security

4

### Elastic in waistband

- integrated elastic in waist for optimal fit
- ideal wearer comfort

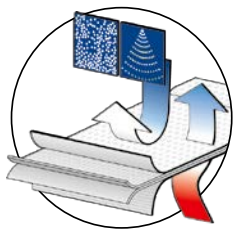
5

### elasticated bands on arm and legs

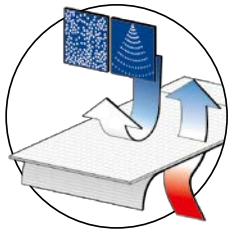
- convenient closures thanks to elastics at wrist and ankles for additional security
- soft elastic on edge for high wearer comfort



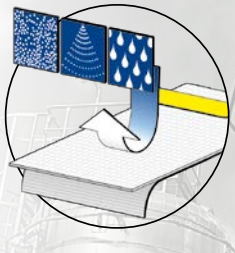

## Technologies



**uvex SMS**
- build out of several layers of polypropylene non woven material
- Mixure of spunbond and melt-blown non woven material for a perfect balance between stability and softness
- High degree on air permeability and breathability



**uvex com4-Laminat**
- non woven polypropylene material laminated with a microporous polyethylene film
- non woven material on the inside for a comfortable feeling
- material is not sticking on skin
- the microporous film provides a certain level of breathability



**uvex Laminat light**
- non woven polypropylene material laminated with a polyethylene film
- non woven material on the inside for a comfortable feeling
- material is not sticking on skin
- using the film is providing a higher level of protection, but reduces the breathability



**uvex Laminat classic**
- non woven polypropylene material laminated with a polypropylene film
- non woven material on the inside for a comfortable feeling
- material is not sticking on skin
- the polypropylene film provides an effective barrier against many organic and inorganic liquid chemicals

# uvex 3B chem classic · uvex 3B chem classic+

## Disposable coverall chemical protection Type 3B



89880



88498

Equipment for item 88498:



The double zip flap makes it easy to put on



Double sleeves for extra safety



Double sleeves for extra safety

## uvex 3B chem classic · uvex 3B chem classic+

General features:
- highly durable material combined with ultrasonically welded and taped seams ensure a great barrier and maximum of safety
- lightweight and durable material
- skin-friendly textile grip on inside

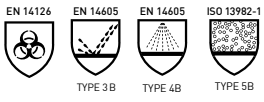
Protection features:
- offers protection against a wide range of chemicals
- optimal protection thanks to self-adhesive zipper flap

Comfort features:
- elasticated waistband, elasticated bands on hood, arms and legs for a perfect fit
- middle finger loops prevent sleeves sliding up the arm

Areas of application:
- handling organic and inorganic chemicals
- cleaning and maintenance work
- chemical and pharmaceutical industries
- food industry
- remediation of soil contamination and dismantling
- industrial cleaning and maintenance
- tank cleaning
- work with paints and varnishes
- disposal of hazardous materials
- agricultural industry
- waste water treatment and drainage construction
- waste management
- disaster response and emergency services
- veterinary medicine and disease control
- oil and petrochemicals

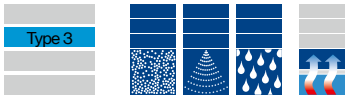
Certified in acc. with















| | uvex 3B chem classic | uvex 3B chem classic+ |
|---|---|---|
| **Art. no.** | 89880 | 88498 |
| **Material** | polypropylene spunbond, laminated with polypropylene film | polypropylene spunbond, laminated with polypropylene film |
| **Colour** | yellow | yellow |
| **Sizes** | S to 3XL | S to 3XL |
| **Order unit** | PC | PC |
| **Outer packaging** | 25 PC per CT | 20 PC per CT |

# uvex 3B chem light

## Disposable coverall chemical protection Type 3B



89843

## uvex 3B chem light

General features:
- light and highly flexible material for high wearer comfort with skin-friendly non-woven material inside

Protection features:
- ideal for cleaning work
- optimal protection thanks to self-adhesive zipper flap

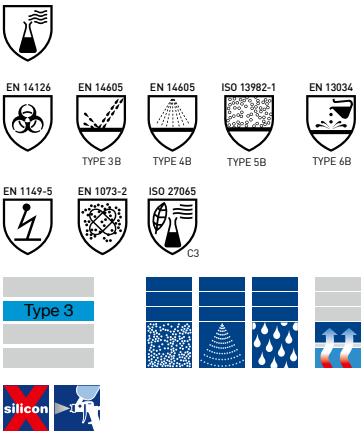
Comfort features:
- elasticated waistband, elasticated bands on hood, arms and legs for optimal fit
- middle finger loops for securing the sleeves

Areas of application:
- handling low-concentration chemicals
- industrial and building cleaning
- ship building and automobile manufacture
- chemical and pharmaceutical industries
- handling paints and varnishes
- electronics
- handling and dismantling of asbestos
- remediation of contaminated sites
- livestock breeding and veterinary medicine
- waste management



Stitched and taped seams. Optimum protection against penetration by liquid aerosols and solid particles.

Certified in acc. with




| uvex 3B chem light | |
|---|---|
| **Art. no.** | 89843 |
| **Material** | polypropylene spunbond laminated with polyethylene film |
| **Colour** | white, yellow |
| **Sizes** | S to 3XL |
| **Order unit** | PC |
| **Outer packaging** | 40 PC per CT |

The chemicals included in this list are examples only.
For a full overview for each individual garment, please consult the technical datasheets.

| Chemical | CAS no. | 89843 | 89880 |
|---|---|---|---|
| | | Class in acc. EN 14325 | Class in acc. EN 14325 |
| Acetone | 67-64-1 | 6 of 6 | 1 of 6 |
| Acetonnitrile | 75-05-8 | 6 of 6 | 0 of 6 |
| Iron(III) chloride (aq., 45%) | 7705-08-0 | – | 6 of 6 |
| Hydrofluoric acid (aq., 49%) | 7664-39-3 | 6 of 6 | 6 of 6 |
| Hydrofluoric acid (aq., 71 to 75%) | 7664-39-3 | – | 5 of 6 |
| Hydrofluoric acid in urea (62 to 64%) | 7664-39-3 | – | 2 of 6 |
| Formaldehyde (aq., 10%) | 50-00-0 | – | 6 of 6 |
| Isopropanol | 67-63-0 | 6 of 6 | 6 of 6 |
| Methanol | 67-56-1 | 6 of 6 | 6 of 6 |
| Sodium hydroxide, 50% | 1310-73-2 | 6 of 6 | 6 of 6 |
| Nitric acid, 69.5% | 7697-37-2 | – | 6 of 6 |
| Hydrochloric acid (aq., 37%) | 7647-01-0 | 5 of 6 | 6 of 6 |
| Sulphuric acid, 96% | 7664-93-9 | 6 of 6 | 6 of 6 |
| Hydrogen peroxide | 7722-84-1 | 6 of 6 | 6 of 6 |

The information provided in the table was obtained in tests conducted under laboratory conditions (at temperatures of 21 ± 2°C).
As additional stresses, such as higher temperatures and mechanical influences, are often present in practice, these values serve as a guide only.
The information is provided without obligation and is not intended to replace your own suitability tests.

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# uvex 3B chem light



Blog

Flyer

You can find detailed information about this topic in our related blog post and flyer

## Protection when handling crop protection products

In farming and forestry applications, workers are repeatedly exposed to hazardous chemical and biological substances. Depending on the type of application, the duration of the exposure and the specific effects of the hazardous substance, it may be necessary to wear personal protective equipment. In addition to respiratory protection and gloves, appropriate chemical protection clothing is an important component of the wearer's protective equipment.

In addition to the uvex 3B chem light, which is certified in accordance with EN ISO 27065 specifically for the handling of crop protection products, there are other protective suits that can be used.
You can find more information in our downloadable flyer "Certified protective equipment when using crop protection products" and our blog post on the topic "Pesticides: Personal protective equipment when handling crop protection products".

# uvex 4B

## Disposable coverall chemical protection type 4B



98375



Stitched and taped seams. Optimum protection against penetration by liquid aerosols and solid particles.

## uvex 4B

General features:
- light and highly flexible material for high wearer comfort lined with skin-friendly non-woven material inside

Protection features:
- taped seams for optimal protection
- self-adhesive zipper flap for optimal protection

Comfort features:
- elasticated waistband, elasticated bands on hood, arms and legs for optimal fit
- middle finger loops prevent sleeves sliding up the arm

Areas of application:
- low-pressure industrial cleaning and building cleaning
- ship building and automobile manufacture
- chemical and pharmaceutical industries
- handling paints and varnishes
- agriculture and horticulture
- pest control
- electronics
- work with asbestos and dismantling
- remediation of contaminated sites
- pharmaceutical industry and laboratories
- sampling
- livestock breeding and veterinary medicine
- waste management

Certified in acc. with

EN 14126 | EN 14605 TYPE 4B | ISO 13982-1 TYPE 5B | EN 13034 TYPE 6B

EN 1149-5 | EN 1073-2

Type 4

silicon

| | uvex 4B |
|---|---|
| **Art. no.** | 98375 |
| **Material** | polypropylene spunbond, laminated with polyethylene film |
| **Colour** | white, orange |
| **Sizes** | S to 3XL |
| **Order unit** | PC |
| **Outer packaging** | 40 PC per CT |

uvex

# uvex 5/6 classic

## Disposable coverall chemical protection Type 5/6



98449



17595



## uvex 5/6 classic

General features:
- extremely lightweight and breathable material guarantees an excellent combination of comfort and safety
- skin-friendly and soft non-woven material on the inside

Protection features:
- self-adhesive zipper flap for optimal protection

Comfort features:
- elasticated waistband, elasticated bands on hood, arms and legs for a perfect fit
- middle finger loops prevent sleeves sliding up the arm

Areas of application:
- handling chemicals in dust and powder form
- varnishing and protection against paint splashes
- fibreglass production and processing
- industrial cleaning and maintenance
- automotive industry
- grinding and polishing
- cement manufacture
- mining and quarrying
- demolition and refurbishment
- working with asbestos
- wood and metal processing
- construction industry
- pharmaceutical industry

▶ **other articles on request**

Certified in acc. with

EN 14126 · ISO 13982-1 TYPE 5B · EN 13034 TYPE 6B · EN 1149-5 · EN 1073-2

Type 5/6

| | uvex 5/6 classic | uvex 5/6 classic light |
|---|---|---|
| **Art. no.** | 98449 | 17595 |
| **Material** | polypropylene spunbond, laminated with polyethylene film | polypropylene spunbond, laminated with polyethylene film |
| **Colour** | white | white |
| **Sizes** | S to 3XL | S to 3XL |
| **Order unit** | PC | PC |
| **Outer packaging** | 50 PC per CT | 50 PC per CT |

# uvex 5/6 comfort

## Disposable coverall chemical protection Type 5/6



98710



88497



98710: Breathable polyethylene laminate combined with an air permeable SMS back section to provide a high level of moisture management and breathability.



88497: Breathable polyethylene laminate combined with an air permeable SMS back section to provide a high level of moisture management and breathability.

## uvex 5/6 comfort

General features:
- the combination of polyethylene laminate and a SMS back section provides a high level of moisture management, without reducing protection

Protection features:
- 98710: bound seams in contrasting colour
- 88497: with inside overlock seam
- self-adhesive zipper flap for optimal protection

Comfort features:
- optimal fit with elasticated waistband, elasticated bands on the hood, arms and legs
- middle finger loops prevent sleeves sliding up the arm

Areas of application:
- handling chemicals in dust and powder form
- varnishing and protection against paint splashes
- fibreglass production and processing
- industrial cleaning and maintenance
- automotive industry
- grinding and polishing
- cement manufacture
- mining and quarrying
- demolition and refurbishment
- working with asbestos
- wood and metal processing
- construction industry
- cleanroom applications
- pharmaceutical industry

Certified in acc. with

ISO 13982-1 TYPE 5 | EN 13034 TYPE 6 | EN 1149-5

Type 5/6

silicon

| | uvex 5/6 comfort | uvex 5/6 comfort light |
|---|---|---|
| **Art. no.** | 98710 | 88497 |
| **Material** | Main material: polypropylene spunbond, laminated with polyethylene film<br>back: SMS spunbond | Main material: polypropylene spunbond, laminated with polyethylene film<br>back: SMS spunbond |
| **Colour** | white, lime | white |
| **Sizes** | S to 3XL | S to 3XL |
| **Order unit** | PC | PC |
| **Outer packaging** | 40 PC per CT | 40 PC per CT |

uvex

# uvex 5/6 air

## Disposable coverall chemical protection Type 5/6



98173



89976



## uvex 5/6 air

General features:
- excellent moisture management
- ideal for warm working environments and extended periods of wear

Protection features:
- optimal protection in dusty environments
- self-adhesive zipper flap for optimal protection

Comfort features:
- optimal fit with elasticated waistband, elasticated bands on hood, arms and legs
- middle finger loops prevent sleeves sliding up the arm

Areas of application:
- handling chemicals in dust and powder form
- working with asbestos
- fibreglass, ceramic fibre and synthetic resin production and processing
- wood and metal processing
- construction industry
- automotive industry
- grinding and polishing
- cement manufacture
- mining and quarrying
- refurbishment and renovation
- pharmaceutical industry
- repair work

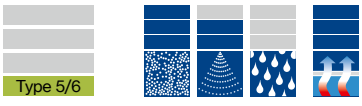
Certified in acc. with

ISO 13982-1 TYPE 5

EN 13034 TYPE 6

EN 1149-5

EN 1073-2




| uvex 5/6 air | | |
|---|---|---|
| **Art. no.** | 98173 | 89976 |
| **Material** | polypropylene spunbond | polypropylene spunbond |
| **Colour** | white | blue |
| **Sizes** | S to 3XL | S to 3XL |
| **Order unit** | PC | PC |
| **Outer packaging** | 50 PC per CT | 50 PC per CT |



# Disposable chemical protection

## Accessories



9875200



9875300



9874946
9874948



9875046



8935346



8909746



8909546

## Hood · Gauntlets · Overshoes · Overboots

| | Hood | Gauntlets | Overshoes | | Overboot |
|---|---|---|---|---|---|
| **Art. no.** | 9875200 | 9875300 | 9874946 | 9874948 | 9875046 |
| **Sizes** | one size fits all | one size fits all | 42 to 46 | 46 to 48 | 42 to 46 |
| **Version** | with velcro fastening | elasticated band on both ends | opening with elasticated band | | opening with elasticated band and tie |
| **Material** | polypropylene spunbond, laminated with polyethylene film | polypropylene spunbond, laminated with polyethylene film | polypropylene spunbond, laminated with polyethylene film | | polypropylene spunbond, laminated with polypropylene film |
| **Colour** | white | white | white | | white |
| **Order unit** | BG | BG | BG | | BG |
| **Content** | 50 PC, loose | 50 PR, loose | 100 PR, loose | | 50 PR, loose |

| | Overboot | Overshoe with anti-slip | Overboots with anti-slip |
|---|---|---|---|
| **Art. no.** | 8935346 | 8909746 | 8909546 |
| **Sizes** | 42 to 46 | 42 to 46 | 42 to 46 |
| **Version** | opening with elasticated band and tie | with anti-slip sole, elasticated opening improved fit | with anti-slip sole, elasticated opening with band improved fit |
| **Material** | polypropylene spunbond, laminated with polypropylene film | polypropylene spunbond, laminated with polyethylene film | polypropylene spunbond, laminated with polyethylene film |
| **Colour** | yellow | white | white |
| **Order unit** | BG | BG | BG |
| **Content** | 30 PR, loose | 100 PR, loose | 25 PR, loose |

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# Disposable chemical protection

## Protection against infectious diseases



Workers may come into contact with biological substances in a wide range of situations. Appropriate personal protective equipment must be used to prevent potential infection.

Clothing designed to provide protection against infectious diseases establishes a physical barrier between the wearer's skin and the source of the infection, and prevents the disease from spreading to other people or environments.

Generally, micro-organisms such as bacteria, fungi and viruses are classed as biological substances. A detailed definition is provided in EU Directive 2000/54/EC. The crucial common denominator between all of these materials is that they can cause infections, trigger allergies, or produce a toxic effect.

Biological substances are placed in one of four categories depending on the infection risk they present:

Risk group 1:
Biological substances that are unlikely to cause disease in humans.

Risk group 2:
Biological substances that can cause human disease and might be a hazard to workers, but are unlikely to spread to the community; there is usually effective prophylaxis or treatment available.

Risk group 3:
Biological substances that can cause severe human disease and present a serious hazard to workers; they may present a risk of spreading to the community, but there is usually effective prophylaxis or treatment available.

Risk group 4:
Biological substances that cause severe human disease and are a serious hazard to workers; they may present a high risk of spreading to the community, and there is usually no effective prophylaxis or treatment available.

The risk groups of each biological substance are described in detail in the annex to EU Directive 2000/54/EC.

Typical applications in which workers may be exposed to infectious substances include:
- Waste water treatment and drainage work
- Waste disposal
- Agriculture
- Food industry
- Work that involves contact with animals and/or products of animal origin
- Healthcare, hospitals, emergency services

A detailed list of all biological substances that you may be exposed to in various applications, and the potential diseases associated with these substances, can be found in a number of publications, including the BGIA Report 1/2013.

## Protective clothing in accordance with EN 14126:2003

The EN 14126 standard defines the performance requirements for clothing designed to protect against infectious diseases. The defined test procedures focus on the medium that contains the micro-organisms, such as fluids, aerosols or solid dust particles. Due to the heterogeneous nature of the micro-organisms, it is not possible to define performance criteria for them.

The tests stipulated by the standard relate only to the material; seam technologies are not taken into account. Taped seams provide a higher level of protection, as the micro-organisms are small enough to penetrate through the tiny needle holes along the seam.
The entire protective suit must also be certified as chemical protection clothing (see page 259).

Wearing appropriate protective clothing does not provide complete, guaranteed protection against all chemical risks. It is also essential that you put on and remove the PPE correctly to ensure safety (see page 260). Any person who assists in the removal of the clothing is also exposed to the risk of contamination.

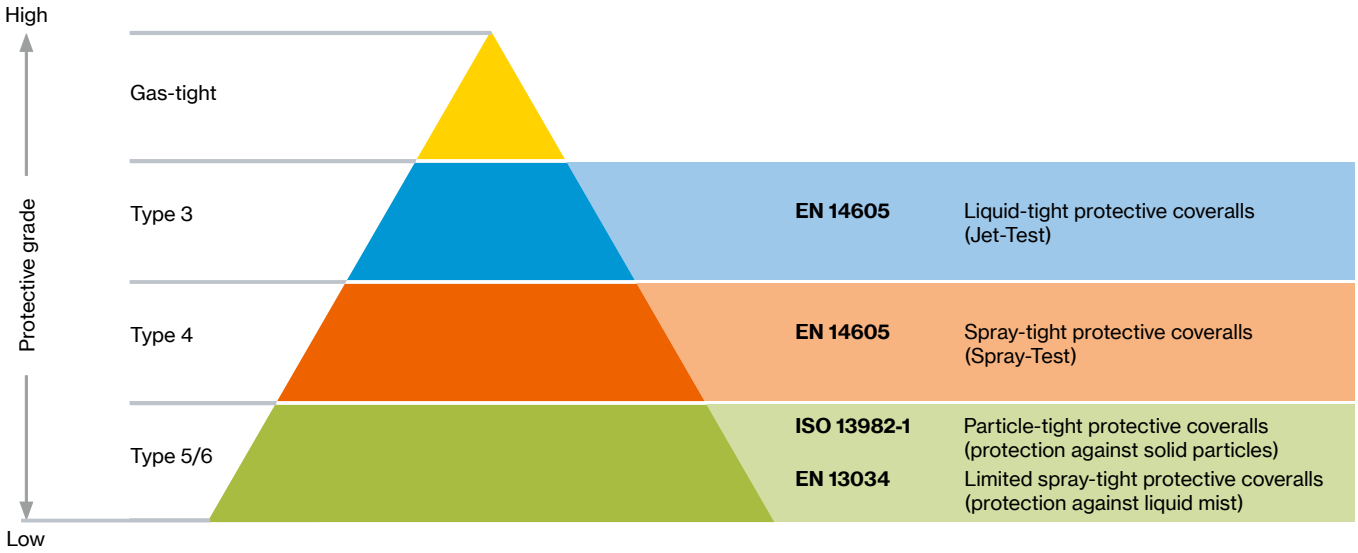
| Model | uvex 3B chem classic | uvex 3B chem classic+ | uvex 3B chem light | uvex 4B | uvex 5/6 classic | uvex 5/6 classic light |
|---|---|---|---|---|---|---|
| Art. no. | 89880 | 88498 | 89843, 89094 | 98375 | 98449 | 17595 |
| ISO/FDIS 16604/16603<br>Resistance to contaminated liquids | 6 of 6 | 6 of 6 | 6 of 6 | 6 of 6 | 6 of 6 | 6 of 6 |
| EN 14126 appendix A<br>Resistance due to mechanical contact with substances containing contaminated liquids | 6 of 6 | 6 of 6 | 6 of 6 | 6 of 6 | 6 of 6 | 6 of 6 |
| ISO/DIS 22611<br>Resistance to contaminated liquid aerosols | 3 of 3 | 3 of 3 | 3 of 3 | 3 of 3 | 3 of 3 | 3 of 3 |
| ISO/DIS 22612<br>Resistance to contaminated solid particles | 3 of 3 | 3 of 3 | 3 of 3 | 3 of 3 | 3 of 3 | 3 of 3 |

# Disposable Protection Clothing

## Guide to standards and products

**Your team's safety at the forefront**
From light liquid splashes to hazardous chemicals and radioactive material – employees face various hazards in the course of their daily work. To simplify the process of selecting appropriate protective clothing, the European Union has defined harmonised standards for different protection classes (also called types) for chemical protection – Category III.

The protection type is confirmed by certification and indicates the kind of exposure (dust, liquid, gas) for which the suit is suitable.
The attainment of the individual types only ensures the minimum requirements necessary for certification. Please refer to our technical datasheets for details of the individual tests.




For optimum protection of your team at all times, the breakthrough times of permeation must be taken into account for protective coveralls. uvex protection clothing has undergone the required permeation tests.

More information on the breakthrough times of specific chemicals can be found in the technical datasheets. These are available for download on the individual product pages, which can be accessed via our landing page by scanning the QR code below.

The breakthrough times were determined under laboratory conditions. As additional stresses, such as higher temperatures and mechanical influences, are often present in practice, this information serves as a guide only. Following contamination, wear or damage, the coverall is to be removed immediately and properly disposed of.



# Disposable chemical protection

Guidelines for use

## Tips for putting on and taking off




Instructions for putting on and taking off Type 3B (PDF)

**Instructions for putting on**

**Instructions for taking off**




Instructions for putting on and taking off Type 5/6 (PDF)

**Instructions for putting on/ taking off**

## Information on selecting the correct size of disposable protective suit

To ensure an optimum fit and keep the wearer safe when working with hazardous substances, uvex disposable overalls are available in multiple sizes.
However, the correct size may not be the same as your usual clothing size. Use the following overview to find the correct fit based on your height and chest circumference.

| Body height in cm | Chest circumference in cm | Size to choose |
|---|---|---|
| 164 - 170 cm | 84 - 92 cm | S |
| 170 - 176 cm | 92 - 100 cm | M |
| 176 - 182 cm | 100 - 108 cm | L |
| 182 - 188 cm | 108 - 116 cm | XL |
| 188 - 194 cm | 116 - 124 cm | XXL |
| 194 - 200 cm | 124 - 132 cm | XXXL |

## Selecting the correct chemical-protection clothing

In order to select appropriate chemical-protection clothing for a specific application within your business, it is important to have your overalls tested by a trained safety officer. Many chemicals can cause serious or irreversible injury to workers if they are not adequately protected. For this reason, chemical-protection clothing should be selected with great care.

**Note:**
It is the responsibility of the user to decide for themselves whether the protective suit used is suitable and correct for the intended use. uvex accepts no responsibility whatsoever in the event of improper use and application of these products.

## Proper handling of uvex disposable protective clothing

**Storage**
uvex disposable protective clothing must be stored in its original packaging, away from light and in a dry environment at temperatures of 15°C–25°C.
The products must be disposed of after use in accordance with the respective legal requirements.

**Washing disposable protective suits**
Disposable overalls are for single use only and must not be washed.

**Durability**
It is recommended to use the product within five years from the production date, which can be found on the label.