Disposable protective clothing

uvex silver system disposable coveralls
Disposable protective clothing

The uvex disposable coveralls · PPE Category III

Protection types

TYPE 5/6

TYPE 4

TYPE 3

uvex 5/6

uvex 4B

uvex 3B plus

uvex 3B vibatec

uvex 3B extra vibatec

Art. no. 98710

Art. no. 98739

Art. no. 98741

Art. no. 98747

Art. no. 98748

EN ISO 13982-1:2004

EN 13034:2005

EN 14605:2005

EN 14126:2003

EN 1149-1:2006

EN 1149-5:2008

EN ISO 13982-1:2004

EN 13034:2005

EN 14605:2005

EN 14126:2003

EN 1073-2:2002

EN 1073-2:2002

EN 1073-2:2002

particle-tight limited spray-tight

spray-tight biological barrier pesticide protection

liquid-tight biological barrier

liquid-tight biological barrier antimicrobial active
## Disposable protective clothing

**Guide to standards and products**

### EEC guideline 89/686 on personal protective equipment (PPE)

Depending on the hazard potential the protective clothing is intended to protect against, PPE is divided into 3 categories:

- **Category I:** Basic PPE protects against minimal risks.
- **Category II:** PPE that cannot be clearly classified under Category 1 or 3 is assigned to Category 2.
- **Category III:** PPE of complex design is intended to protect against mortal danger or serious and irreversible injury to health.

### Protective grade

- **High:** Type 3B, Type 3, Type 4B, Type 5/6
- **Low:** Type 1, Type 2

### Standards and Products

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<th>Standard</th>
<th>Description</th>
<th>Pictogram</th>
<th>Type 3B vibatec 98748</th>
<th>Type 3B vibatec 98741</th>
<th>Type 3B 98747</th>
<th>Type 4B 98739</th>
<th>Type 5/6 98710</th>
</tr>
</thead>
<tbody>
<tr>
<td>EN 1149-5</td>
<td>Protective clothing with antistatic properties (antistatic function only guaranteed if air humidity &gt; 25%)</td>
<td><img src="image.png" alt="Pictogram" /></td>
<td><img src="image.png" alt="Pictogram" /></td>
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<td><img src="image.png" alt="Pictogram" /></td>
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<tr>
<td>EN 1073-2</td>
<td>Protective clothing against particulate radioactive contamination (no protection against radioactive rays)</td>
<td><img src="image.png" alt="Pictogram" /></td>
<td><img src="image.png" alt="Pictogram" /></td>
<td><img src="image.png" alt="Pictogram" /></td>
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<td><img src="image.png" alt="Pictogram" /></td>
</tr>
<tr>
<td>EN 14126</td>
<td>Protective clothing against infective agents</td>
<td><img src="image.png" alt="Pictogram" /></td>
<td><img src="image.png" alt="Pictogram" /></td>
<td><img src="image.png" alt="Pictogram" /></td>
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<td><img src="image.png" alt="Pictogram" /></td>
</tr>
<tr>
<td>DIN EN ISO 20743:2007</td>
<td>Fabric surfaces with specific antibacterial activity</td>
<td><img src="image.png" alt="Pictogram" /></td>
<td><img src="image.png" alt="Pictogram" /></td>
<td><img src="image.png" alt="Pictogram" /></td>
<td><img src="image.png" alt="Pictogram" /></td>
<td><img src="image.png" alt="Pictogram" /></td>
<td><img src="image.png" alt="Pictogram" /></td>
</tr>
<tr>
<td>DIN 32781</td>
<td>Protective clothing against pesticides</td>
<td><img src="image.png" alt="Pictogram" /></td>
<td><img src="image.png" alt="Pictogram" /></td>
<td><img src="image.png" alt="Pictogram" /></td>
<td><img src="image.png" alt="Pictogram" /></td>
<td><img src="image.png" alt="Pictogram" /></td>
<td><img src="image.png" alt="Pictogram" /></td>
</tr>
<tr>
<td>EN 13034</td>
<td>Limited spray-tight coveralls (protection against light mist spray)</td>
<td><img src="image.png" alt="Pictogram" /></td>
<td><img src="image.png" alt="Pictogram" /></td>
<td><img src="image.png" alt="Pictogram" /></td>
<td><img src="image.png" alt="Pictogram" /></td>
<td><img src="image.png" alt="Pictogram" /></td>
<td><img src="image.png" alt="Pictogram" /></td>
</tr>
<tr>
<td>EN ISO 13982-1</td>
<td>Particle-tight coveralls (protection against solid particles)</td>
<td><img src="image.png" alt="Pictogram" /></td>
<td><img src="image.png" alt="Pictogram" /></td>
<td><img src="image.png" alt="Pictogram" /></td>
<td><img src="image.png" alt="Pictogram" /></td>
<td><img src="image.png" alt="Pictogram" /></td>
<td><img src="image.png" alt="Pictogram" /></td>
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<tr>
<td>EN 14605 spray test</td>
<td>Spray-tight coveralls (spray test)</td>
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<td><img src="image.png" alt="Pictogram" /></td>
<td><img src="image.png" alt="Pictogram" /></td>
<td><img src="image.png" alt="Pictogram" /></td>
<td><img src="image.png" alt="Pictogram" /></td>
<td><img src="image.png" alt="Pictogram" /></td>
</tr>
<tr>
<td>EN 14605 jet test</td>
<td>Liquid-tight coveralls (jet test)</td>
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<td><img src="image.png" alt="Pictogram" /></td>
<td><img src="image.png" alt="Pictogram" /></td>
<td><img src="image.png" alt="Pictogram" /></td>
<td><img src="image.png" alt="Pictogram" /></td>
<td><img src="image.png" alt="Pictogram" /></td>
</tr>
</tbody>
</table>
Disposable protective clothing

Silver for added safety you can rely on –
Disposable coveralls with an active anti-bacterial surface

How AgPURE™ works

Highly effective protection against bacteria, yeasts and fungi.
AgPURE™ consists of inorganic particles which measure just a few nanometres. In the outermost layer of each nanoparticle are individual active silver ions.

AgPURE™ combats microorganisms in 3 stages:

1. Reduces the build-up of microbes
   Fewer colonies, poor growth conditions
2. Disrupts cell metabolism by removing potassium ions
   Reduces the viability of microorganisms
3. Irreversible reactions with amino acids containing sulphur
   Destroys proteins and DNA/RNA

uvex disposable protective clothing with vibatec offers your service teams reliable protection. This has been confirmed on the basis of scientific tests by the Hohenstein Institute. The powerful antibacterial action of the protective suits with a bacteria reduction [log CFU] factor of ≥ 3 has been tested and certified.

Testing of the antibacterial activity in accordance with DIN EN ISO 20743:2007-10
(DIN test for fabric surface and materials)

• Recognised process for testing antibacterial effectiveness of surfaces and fabrics containing silver.
• Certification of bioactive products.
• The German Hohenstein Institute played a key role in the development of this recognised standard.

Antibacterial activity Bacteria reduction (log CFU)
none < 0.5
slight > 0.5 to 1**
significant > 1 to < 3
strong > 3

* Based on the biological variance (+0.5 log steps), certification of the antimicrobial effectiveness is only possible upwards from a significant level of activity – irrespective of the activity classification.

Bacteria populations over time according to test JIS Z 2801:2000

<table>
<thead>
<tr>
<th>Incubation time</th>
<th>Number of bacteria in the sample</th>
<th>% killed</th>
<th>R value</th>
</tr>
</thead>
<tbody>
<tr>
<td>5 minutes</td>
<td>650000</td>
<td></td>
<td></td>
</tr>
<tr>
<td>30 minutes</td>
<td>10000</td>
<td></td>
<td></td>
</tr>
<tr>
<td>60 minutes</td>
<td>&lt; 100</td>
<td></td>
<td></td>
</tr>
<tr>
<td>6 hours</td>
<td>&lt; 100</td>
<td></td>
<td></td>
</tr>
<tr>
<td>18 hours</td>
<td>&lt; 100</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

1) % killed and R value based on internal standard (polystyrene surface).

99.979% > 3.68

Laminates with and without nanosilver coating

Laminate without nanosilver
Bacteria growth after 18 hours

Laminate with nanosilver
No bacteria growth after 18 hours

The following bacterial strains were also tested:
• Legionella pneumophilia
• Staphylococcus aureus
• Methicillin-resistant Staphylococcus aureus (MRSA)
• Klebsiella pneumoniae
• Escherichia coli

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Disposable protective clothing

Disposable coverall chemical protection Type 3B

uvex 3B extra vibatec

uvex 3B extra vibatec coverall has a new double placket system, a two layer zipper flap with velcro. The double knitted cuff not only simplifies putting on and taking off the coverall, eliminating the need for extra sealing tape.

Properties
- Impervious to liquids
- AgPURE active layer provides an optimum level of safety when working with biological hazards
- Protection against a wide range of chemicals
- High wearer comfort owing to ergonomic design and lightweight material
- Soft-textured fleece on the inside ensures a comfortable wear
- Maximum freedom of movement
- Elasticated waistband
- Thumb loops
- Easy to put on and take off

Areas of application
- Limiting and control of epidemics
- Disposal of hazardous materials
- Sewage treatment
- Veterinary medicine applications

<table>
<thead>
<tr>
<th>Type 3</th>
<th>3B</th>
</tr>
</thead>
<tbody>
<tr>
<td>Model no.</td>
<td>9858</td>
</tr>
<tr>
<td>Colour</td>
<td>silver</td>
</tr>
<tr>
<td>Retail unit</td>
<td>10 coveralls</td>
</tr>
</tbody>
</table>

Sizes
<table>
<thead>
<tr>
<th>Art. no.</th>
</tr>
</thead>
<tbody>
<tr>
<td>S</td>
</tr>
<tr>
<td>M</td>
</tr>
<tr>
<td>L</td>
</tr>
<tr>
<td>XL</td>
</tr>
<tr>
<td>XXL</td>
</tr>
<tr>
<td>XXXL</td>
</tr>
</tbody>
</table>

uvex 3B extra vibatec Material Composition

The uvex 3B extra vibatec has an innovative active layer with AgPURE™ that provides outstanding active antimicrobial protection against biological hazards (R value ≥ 3).

- Active layer with AgPURE™
- Liquid-tight polypropylene film
- Spunbond

State-of-the-art ultrasonic sealing technology. Securedly protects the user from the risk of contamination.

For further information, install the QR Code Reader and photograph the code using a smartphone.
Disposable protective clothing

Disposable coverall chemical protection Type 3B

uvex 3B vibatec

This coverall has the original zipper flap with velcro and adhesive tapes. Distinguishing features include the adjustable hood and reflective stripes on the arms and legs.

Properties
- Impervious to liquids
- AgPURE active layer provides an optimum level of safety when working with biological hazards
- Protection against a wide range of chemicals
- High wearer comfort owing to ergonomic design and lightweight material
- Soft-textured fleece on the inside ensures a comfortable wear
- Full freedom of movement
- Elasticated waistband
- Thumb loops
- Easy to put on and take off

Areas of application
- Limiting and control of epidemics
- Disposal of hazardous materials
- Sewage treatment
- Veterinary medicine applications

Type 3B
Model no. 9808
Colour silver
Retail unit 10 coveralls

Sizes
- S 98741.09
- M 98741.10
- L 98741.11
- XL 98741.12
- XXL 98741.13
- XXXL 98741.14

uvex 3B vibatec Material Composition

The uvex 3B vibatec has an innovative active layer with AgPURE™ that provides outstanding active antimicrobial protection against biological hazards (R value ≥ 3).

Active layer with AgPURE™
Liquid-tight polypropylene film
Spunbond

Wide reflective stripes ensure high visibility, even in poorly lit conditions.

Two layered zipper flap with velcro and adhesive tapes for increased safety.

The innovative hood and mask attachment system gives this coverall an ergonomic hood design with adjustable length for optimal protection.

State-of-the-art ultrasonic sealing technology. Securely protects the user from the risks of contamination.
Disposable protective clothing

Disposable coverall chemical protection Type 3B

uvex 3B plus

uvex 3B plus coverall has a new double placket system, a two layer zipper flap with velcro. The double knitted cuff not only simplifies putting on and taking off the coverall, eliminating the need for extra sealing tape.

Properties
- Impervious to liquids
- Protection against a wide range of chemicals
- High wearer comfort owing to ergonomic design and lightweight material
- Soft-textured fleece on the inside ensures a comfortable wear
- Full freedom of movement
- Elasticated waistband
- Thumb loops
- Easy to put on and take off

Areas of application
- Disposal of hazardous materials
- Cleaning work
- Tank cleaning
- Cleaning of contaminated land

uvex 3B plus  Material Composition

The extremely light and tight spunbond-polypropylene-laminate in a unique silver colour provides an effective barrier against liquid chemicals. The mechanical strength of the material and the sealed seams allow the uvex 3B plus to provide protection against even the highest strains without reducing comfort.

<table>
<thead>
<tr>
<th>Type</th>
<th>3B</th>
</tr>
</thead>
<tbody>
<tr>
<td>Model no.</td>
<td>9857</td>
</tr>
<tr>
<td>Colour</td>
<td>silver</td>
</tr>
<tr>
<td>Retail unit</td>
<td>10 coveralls</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>Sizes</th>
<th>Art. no.</th>
</tr>
</thead>
<tbody>
<tr>
<td>S</td>
<td>98747.09</td>
</tr>
<tr>
<td>M</td>
<td>98747.10</td>
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<tr>
<td>L</td>
<td>98747.11</td>
</tr>
<tr>
<td>XL</td>
<td>98747.12</td>
</tr>
<tr>
<td>XXL</td>
<td>98747.13</td>
</tr>
<tr>
<td>XXXL</td>
<td>98747.14</td>
</tr>
</tbody>
</table>

State-of-the-art ultrasonic sealing technology.

Securely protects the user from the risks of contamination.

Double knitted cuff makes this coverall extremely compatible with gloves.

The new layered zipper flap has two velcro systems making the coverall easier to put on and take off.

Liquid-tight polypropylene film
Spunbond
Disposable protective clothing
Disposable coverall chemical protection Type 4B

uvex 4B
Exceptional wearer comfort guaranteed by breathable, light flexible material.

Properties
- Spray tight
- Taped seams offer optimum protection
- Re-sealable zipper flap
- Elasticated waistband
- Middle finger loops
- Approved for protection from pesticides in accordance with DIN 32781
- Silicone free
- Suitable for cleanroom environments

Areas of application
- Work with low to moderate toxic inorganic chemicals
- Low-pressure industrial cleaning (mist spray)
- Ship and automotive construction
- Work with paint and varnish
- Agriculture and horticulture
- Pest control
- Electronics

EN 14126
Protective clothing against infective agents
EN 14605
Spray-tight protective coveralls (EN 468 spray test)
EN ISO 13982-1
Particle-tight protective coveralls (Protection against solid particles)
EN 13034
Limited spray-tight protective coveralls (Protection against light mist spray)
DIN 32781
Protective clothing against pesticides

uvex 4B Material Composition
The microporous spray-tight spunbond-polyethylene-laminate enables the uvex 4B to provide both protection and breathability. The taped seams provide outstanding protection against liquid aerosols and solid particles while the spunbond material inside makes it comfortable to wear.
Disposable protective clothing

Disposable coverall chemical protection Type 5/6

Disposable protective clothing

Disposable coverall chemical protection Type 5/6

The combination of breathable, extremely light polyethylene laminate combined with SMS back section provides a high level of moisture management and breathability, without reducing protection.

Properties

- Spray and particle tight to a limited extent
- Bound seams and elastics in contrasting colours
- Optimised body fit for high wearer comfort
- Re-sealable zipper flap
- Middle finger loops
- Silicon free
- Suitable for cleanroom environments

Areas of application

- Work with dust or particulate chemicals
- Painting
- Fibreglass production and processing
- General maintenance

uvex 5/6

The combination of breathable, extremely light polyethylene laminate combined with SMS back section provides a high level of moisture management and breathability, without reducing protection.

Properties

- Spray and particle tight to a limited extent
- Bound seams and elastics in contrasting colours
- Optimised body fit for high wearer comfort
- Re-sealable zipper flap
- Middle finger loops
- Silicone free
- Suitable for cleanroom environments

Areas of application

- Work with dust or particulate chemicals
- Painting
- Fibreglass production and processing
- General maintenance

uvex 5/6 Material Composition

The uvex 5/6 is a very light, microporous spunbond-polyethylene-laminate that, combined with spunbond (SMS) back section, ensures high breathability. Together with the bound seams it guarantees a high level of protection against liquid splashes and solid particles.

Bound seams, exterior in contrasting colour.

Increased protection against penetration by solid particles and liquid splashes.

<table>
<thead>
<tr>
<th>Type 5/6</th>
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<tbody>
<tr>
<td>Model no. 9877</td>
</tr>
<tr>
<td>Colour white/lime</td>
</tr>
<tr>
<td>Retail unit 40 coversalls</td>
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</table>

<table>
<thead>
<tr>
<th>Sizes</th>
<th>Art. no.</th>
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</thead>
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<td>L</td>
<td>98710.10</td>
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<tr>
<td>XL</td>
<td>98710.11</td>
</tr>
<tr>
<td>XXL</td>
<td>98710.12</td>
</tr>
<tr>
<td>XXXL</td>
<td>98710.13</td>
</tr>
</tbody>
</table>

uvex 5/6 Material Composition

The uvex 5/6 is a very light, microporous spunbond-polyethylene-laminate that, combined with spunbond (SMS) back section, ensures high breathability. Together with the bound seams it guarantees a high level of protection against liquid splashes and solid particles.

Bound seams, exterior in contrasting colour.

Increased protection against penetration by solid particles and liquid splashes.

<table>
<thead>
<tr>
<th>Microporous polyethylene film</th>
</tr>
</thead>
<tbody>
<tr>
<td>Spunbond</td>
</tr>
</tbody>
</table>
Disposable protective clothing

Accessories

**Hood with velcro fastening**

<table>
<thead>
<tr>
<th>Mod. no.</th>
<th>Material</th>
<th>Colour</th>
<th>Sizes</th>
<th>Retail unit</th>
<th>Art. no.</th>
</tr>
</thead>
<tbody>
<tr>
<td>9861</td>
<td>Spunbond PE laminate</td>
<td>white</td>
<td>one size fits all</td>
<td>50 hoods per bag</td>
<td>98752.00</td>
</tr>
</tbody>
</table>

**Overshoes, elasticated opening**

<table>
<thead>
<tr>
<th>Mod. no.</th>
<th>Material</th>
<th>Colour</th>
<th>Sizes</th>
<th>Retail unit</th>
<th>Art. no.</th>
</tr>
</thead>
<tbody>
<tr>
<td>9863</td>
<td>Spunbond PE laminate</td>
<td>white</td>
<td>42 – 46 / 46 – 48</td>
<td>100 pairs per bag</td>
<td>98749.46 / 98749.48</td>
</tr>
</tbody>
</table>

**Gauntlets, elasticated openings on both ends**

<table>
<thead>
<tr>
<th>Mod. no.</th>
<th>Material</th>
<th>Colour</th>
<th>Sizes</th>
<th>Retail unit</th>
<th>Art. no.</th>
</tr>
</thead>
<tbody>
<tr>
<td>9862</td>
<td>Spunbond PE laminate</td>
<td>white</td>
<td>one size fits all</td>
<td>50 pairs per bag</td>
<td>98753.00</td>
</tr>
</tbody>
</table>

**Overboots, Opening with elastic and string**

<table>
<thead>
<tr>
<th>Mod. no.</th>
<th>Material</th>
<th>Colour</th>
<th>Sizes</th>
<th>Retail unit</th>
<th>Art. no.</th>
</tr>
</thead>
<tbody>
<tr>
<td>9864</td>
<td>Spunbond PE laminate</td>
<td>white</td>
<td>42 – 46</td>
<td>50 pairs per bag</td>
<td>98750.46</td>
</tr>
</tbody>
</table>

Art. no. = 98752.00

**Mod. no.**

- 9861
- 9862
- 9863
- 9864

**Material**

- Spunbond PE laminate

**Colour**

- White
As a leader of innovation, we place the highest demands on the products and services which we offer our customers. The uvex Chemical Expert System (CES) has been developed by experts for experts. It can be accessed anytime and anywhere in the world. This web-based tool helps you select the appropriate disposable safety clothing.

Online chemicals database

The uvex Chemical Expert System (CES) offers an extensive chemicals database for choosing the appropriate safety gloves for working with hazardous substances. As a user, you can create a personal permeation list or receive advice from our specialists. It only takes a few clicks of the mouse to find the right disposable safety clothing and chemical safety gloves to match your specific requirements.

Advantages of the uvex Chemical Expert System:

- Extensive database of tested chemicals
- Individual creation of a permeation list
- Easy selection of disposable safety clothing and chemical safety gloves
- Personal account with premium functions

uvex – advice and product expertise from a single source.

https://ces.uvex.de
Disposable protective clothing

Please pay attention!

To ensure a perfect fit and to guarantee maximum safety when working with hazardous substances, the uvex range is available in a wide range of sizes. The table shows the body measurements and the corresponding uvex sizes. These size definitions are based on actual body measurements taken while wearing underwear but without wearing shoes.

These sizes differ from standard clothes sizes, so please always select uvex coverall according to your actual body measurements and not your usual clothes sizes!

### How to make the right choice

<table>
<thead>
<tr>
<th>Sizes</th>
<th>Body height in cm (A)</th>
<th>Chest measurement in cm (B)</th>
</tr>
</thead>
<tbody>
<tr>
<td>S</td>
<td>164 – 170 cm</td>
<td>84 – 92 cm</td>
</tr>
<tr>
<td>M</td>
<td>170 – 176 cm</td>
<td>92 – 100 cm</td>
</tr>
<tr>
<td>L</td>
<td>176 – 182 cm</td>
<td>100 – 108 cm</td>
</tr>
<tr>
<td>XL</td>
<td>182 – 188 cm</td>
<td>108 – 116 cm</td>
</tr>
<tr>
<td>XXL</td>
<td>188 – 194 cm</td>
<td>116 – 124 cm</td>
</tr>
<tr>
<td>XXXL</td>
<td>194 – 200 cm</td>
<td>124 – 132 cm</td>
</tr>
</tbody>
</table>

Your employees face various hazards in the course of their daily work. Everything from light liquid splashes or spillage of liquids to work with hazardous chemicals and radioactive material in industrial use. Therefore, it is important to consider the breakthrough time of permeation for protective coveralls.

Permeation is the process by which a chemical moves through a protective clothing material on a molecular level. Molecules of chemicals are absorbed into the outer surface of a material, then diffuse across the fabric and are released on the inner surface.

The permeation resistance of uvex fabrics to hazardous substances is determined by measuring the chemical breakthrough time of chemicals through a material. Permeation tests for our protective coveralls have been conducted according to EN ISO 6529/EN 374-3.

The data listed in the table above were developed under laboratory conditions. As additional influences such as higher temperatures and mechanical strain often occur in practice, these data should only be used as a guideline. Seams and zipper closures may have lower breakthrough times, particularly when damaged or worn. The data is without commitment and does not substitute extensive suitability tests.

For more information on test methods or permeation testing of your specific chemical please visit [uvex-safety.de](http://www.uvex-safety.de) or contact our customer service department directly on 0800-66 44 893 (for calls within Germany) or +49 (0) 911-97 36-0 (for calls from outside Germany).

We will be happy to help.
### Disposable protective clothing

**Categorisation of achieved performance classes**

<table>
<thead>
<tr>
<th>Model</th>
<th>uvex 3B vibatec</th>
<th>uvex 3B</th>
<th>uvex 4B</th>
<th>uvex 5/6</th>
</tr>
</thead>
<tbody>
<tr>
<td>Article number</td>
<td>98748 / 98741</td>
<td>98747</td>
<td>98739</td>
<td>98710</td>
</tr>
</tbody>
</table>

### Requirements

#### EN 14325:2004 physical fabric tests

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Class</th>
<th>Class</th>
<th>Class</th>
<th>Class</th>
</tr>
</thead>
<tbody>
<tr>
<td>EN 530 abrasion resistance</td>
<td>2 of 6</td>
<td>2 of 6</td>
<td>2 of 6</td>
<td>1 of 6</td>
</tr>
<tr>
<td>EN ISO 7854 flex cracking resistance</td>
<td>3 of 6</td>
<td>3 of 6</td>
<td>5 of 6</td>
<td>4 of 6</td>
</tr>
<tr>
<td>EN ISO 9073-4 tear resistance</td>
<td>2 of 6</td>
<td>2 of 6</td>
<td>1 of 6</td>
<td>1 of 6</td>
</tr>
<tr>
<td>EN ISO 13934-1 tensile strength</td>
<td>2 of 6</td>
<td>2 of 6</td>
<td>1 of 6</td>
<td>1 of 6</td>
</tr>
<tr>
<td>EN 863 puncture resistance</td>
<td>2 of 6</td>
<td>2 of 6</td>
<td>1 of 6</td>
<td>1 of 6</td>
</tr>
<tr>
<td>13274-4 resistance to ignition</td>
<td>pass</td>
<td>pass</td>
<td>pass</td>
<td>pass</td>
</tr>
<tr>
<td>EN 1149-5 antistatic properties</td>
<td>pass</td>
<td>pass</td>
<td>–</td>
<td>pass</td>
</tr>
</tbody>
</table>

#### EN ISO 6529/EN 374-3 Resistance to permeation by chemicals

<table>
<thead>
<tr>
<th>Acid</th>
<th>Class</th>
<th>Class</th>
<th>Class</th>
<th>Class</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hydrochloric Acid 36%</td>
<td>6 of 6</td>
<td>6 of 6</td>
<td>–</td>
<td>–</td>
</tr>
<tr>
<td>Sulphuric Acid 96%</td>
<td>6 of 6</td>
<td>6 of 6</td>
<td>–</td>
<td>–</td>
</tr>
<tr>
<td>Sulphuric Acid 30%</td>
<td>–</td>
<td>–</td>
<td>–</td>
<td>–</td>
</tr>
<tr>
<td>Hydrofluoric Acid 37%</td>
<td>6 of 6</td>
<td>6 of 6</td>
<td>–</td>
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</tr>
</tbody>
</table>

#### EN 14325:2004 Resistance to penetration by chemicals (penetration index P/repellence index R)

<table>
<thead>
<tr>
<th>Substance</th>
<th>P</th>
<th>R</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sulphuric Acid 30%</td>
<td>P 3 of 3</td>
<td>R 3 of 3</td>
</tr>
<tr>
<td>Sodium Hydroxide 10%</td>
<td>P 3 of 3</td>
<td>R 3 of 3</td>
</tr>
<tr>
<td>n-Xylene (undiluted)</td>
<td>P 3 of 3</td>
<td>R 3 of 3</td>
</tr>
<tr>
<td>n-Heptane (undiluted)</td>
<td>P 3 of 3</td>
<td>R 3 of 3</td>
</tr>
<tr>
<td>Isopropanol</td>
<td>P 3 of 3</td>
<td>R 3 of 3</td>
</tr>
</tbody>
</table>

#### Resistance to penetration by infective agents

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Class</th>
<th>Class</th>
<th>Class</th>
<th>Class</th>
</tr>
</thead>
<tbody>
<tr>
<td>Resistance to contaminated liquids</td>
<td>6 of 6</td>
<td>6 of 6</td>
<td>6 of 6</td>
<td>–</td>
</tr>
<tr>
<td>EN 14126 appendix A Resistance due to mechanical contact with substances containing contaminated liquids</td>
<td>6 of 6</td>
<td>6 of 6</td>
<td>6 of 6</td>
<td>–</td>
</tr>
<tr>
<td>ISO/DIS 22611 Resistance to contaminated liquid aerosols</td>
<td>3 of 3</td>
<td>3 of 3</td>
<td>3 of 3</td>
<td>–</td>
</tr>
<tr>
<td>ISO/DIS 22612 Resistance to contaminated solid particles</td>
<td>3 of 3</td>
<td>3 of 3</td>
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</tr>
</tbody>
</table>

#### DIN EN ISO 20743:2007 Antibacterial activity

<table>
<thead>
<tr>
<th>Requirement</th>
<th>≥ 3 strong</th>
<th>–</th>
<th>–</th>
<th>–</th>
</tr>
</thead>
</table>

#### Whole suit performance

<table>
<thead>
<tr>
<th>Requirement</th>
<th>Class</th>
<th>Class</th>
<th>Class</th>
<th>Class</th>
</tr>
</thead>
<tbody>
<tr>
<td>EN ISO 13935-2 seam strength</td>
<td>4 of 6</td>
<td>4 of 6</td>
<td>2 of 6</td>
<td>4 of 6</td>
</tr>
<tr>
<td>EN 14605/ EN 463 jet-test Type 3</td>
<td>pass</td>
<td>pass</td>
<td>–</td>
<td>–</td>
</tr>
<tr>
<td>EN 14605/ EN 468 spray-test Type 4</td>
<td>pass</td>
<td>pass</td>
<td>pass</td>
<td>–</td>
</tr>
<tr>
<td>EN ISO 13903-1-2 particle-test Type 5</td>
<td>pass</td>
<td>pass</td>
<td>–</td>
<td>–</td>
</tr>
<tr>
<td>EN 13034/ EN 468 reduced spray-test Type 6</td>
<td>pass</td>
<td>pass</td>
<td>pass</td>
<td>pass</td>
</tr>
<tr>
<td>EN 1073-2 protection against particulate radioactive contamination</td>
<td>pass</td>
<td>pass</td>
<td>–</td>
<td>–</td>
</tr>
</tbody>
</table>

#### DIN 32781:2010 Protective clothing against pesticides/ resistance to penetration - atomiser test 24786:2006

| Requirement | – | – | pass | – |

* The data listed above refer to SMS back panel fabric.

Main body fabric has equal or higher performance, but suit classification is based upon the lowest performing component.

### Suitability by cleanroom class / tested according to ISO 9073-10 (linting-test)

<table>
<thead>
<tr>
<th>Requirement</th>
<th>1</th>
<th>2</th>
<th>3</th>
<th>4</th>
<th>5</th>
<th>6</th>
<th>7</th>
<th>8</th>
<th>9</th>
</tr>
</thead>
<tbody>
<tr>
<td>ISO 14644-1 class</td>
<td>–</td>
<td>–</td>
<td>–</td>
<td>–</td>
<td>–</td>
<td>–</td>
<td>–</td>
<td>–</td>
<td>–</td>
</tr>
<tr>
<td>US Federal Standard 209</td>
<td>–</td>
<td>–</td>
<td>1</td>
<td>10</td>
<td>100</td>
<td>1.000</td>
<td>10.000</td>
<td>100.000</td>
<td>–</td>
</tr>
<tr>
<td>uvex 5/6</td>
<td>–</td>
<td>–</td>
<td>–</td>
<td>–</td>
<td>–</td>
<td>–</td>
<td>–</td>
<td>–</td>
<td>–</td>
</tr>
<tr>
<td>uvex 4B</td>
<td>–</td>
<td>–</td>
<td>–</td>
<td>–</td>
<td>–</td>
<td>–</td>
<td>–</td>
<td>–</td>
<td>–</td>
</tr>
</tbody>
</table>
Disposable protective clothing

Guidelines for use

Using uvex disposable protective clothing

Prior to use it is essential to check the protective coverall for any damage e.g. broken seams, defective zipper closure or other visible defects which may impair its protection levels.

Storage
uvex disposable protective clothing must be stored in its original packaging in a dry place away from sunlight.

Disposal
The products must be disposed after use in accordance with respective rules and regulations. The products are only suitable for a single use.

Washing disposable suits
The disposable suits are only suitable for a single use and must not be washed.

Please note
It is the responsibility of the user to decide which product is most suitable for the intended application. Under no circumstances can uvex accept responsibility for the incorrect application and use of these products.
For enquiries or additional information, please visit uvex-safety.de or contact our customer service department directly on 0800 664 4893 (for calls from within Germany) or +49 (0) 911 97360 (for calls from outside Germany). We will be happy to help.

Donning and removal of the disposable protective coverall

In accordance with the ruling of the German Committee for Biological Agents (ABAS), the PPE should be put on and taken off as follows:

Putting the PPE on:

- Before putting the PPE on, check all parts to ensure none are missing or damaged
- Remove jewellery and watches
- Put on the suit and zip it up to the hips
- Put on the boots
- Put on the filtering face mask and check its tight fit
- Put on the safety glasses
- Pull the hood of the suit over your head and zip the suit until it is completely closed. To cover the chin and the zip, press the front flap into place
- Put on the safety gloves and pull them over the cuff of the sleeves

Taking the PPE off:

- Disinfect the safety gloves but do not remove
- Pull down the hood and pull the suit over the shoulders, turning it inside out down to the hips. At the same time, pull your arms out of the sleeves (a second person with safety gloves and a filtering face mask can help)
- Take the suit completely off, removing the boots at the same time
- Remove the safety gloves by pulling them inside out
- Remove the glasses by drawing them forward from the back and place them in the designated place
- Remove the filtering face mask in the same way
- Disinfect your hands and finish off by thoroughly washing your hands, face and any other contaminated areas of skin with water and a disinfectant lotion