# Safety Gloves

uvex

# Innovative safety gloves “Made in Germany”

Manufacturing and technology expertise

## uvex centre of expertise for safety gloves in Lüneburg, Germany

Development expertise, state-of-the-art robot-controlled manufacturing technology and stringent quality control ensure the first-class quality of our safety gloves. By manufacturing in Germany, uvex pursues efficient, resource-preserving production processes and ensures that the path from manufacturer to end user is as short as possible.

## Development/production

Fully integrated development processes across all stages:
- own yarn/liner manufacturing
- own compounding (blending)
- specially developed moulding and process technology
- innovative coating technology
- development of customer-specific solutions
- technical modifications to existing products (e.g. thermal lining)
- individual production (e.g. gloves for disabled people)

State-of-the-art production:
- 100% solvent-free manufacturing
- sustainable use of resources

## Innovation

- Use of high quality natural and functional fibres
  - good skin compatibility
  - high wearer acceptance

- Tested products, free from harmful substances
  - uvex pure Standard (very good skin compatibility, dermatologically tested)
  - Certified in accordance with Oeko-Tex® Standard 100 (e.g. product class II)

OEKO-TEX®
CONFIDENCE IN TEXTILES
STANDARD 100
S02-0648 HOHENSTEIN HTTI
Tested for harmful substances,
www.oeko-tex.com/standard100

Institut für Angewandte Dermatologische Forschung
proDERM
dermatologisch bestätigt
Prof. Dr. K.-P Wilhelm

TOP 100
top innovator 2018

MADE IN GERMANY

Detailed information on the award criteria applied by the certification bodies OEKO-TEX®, proDERM and Top100 can be found at: **uvex-safety.com/certificates**

# Extensive know-how is part of our service

Service expertise

## We know exactly what you want.

Our expertise is available for you at all times which forms the basis of our on-site risk-hazard analysis service: Our hand protection specialists work with you to determine which safety gloves are best suited to your individual requirements. Seminars, laboratory analyses and online tools round off our service portfolio.


## Consultation / training / application technology

- on-site consultation from uvex product specialists
- practical hand protection seminars (uvex academy)
- plant and laboratory tours for customers
- cooperation with scientific institutes
- measurement and analysis service in own laboratories
  - mechanical standard test in accordance with EN 388
  - permeation tests in accordance with EN 374
  - special tests (e.g. antistatic/grip measurement/ climate test)
- individual certifications (e.g. for ingredients, coating compatibility, food product suitability)

## Information / e-services

- Chemical Expert System (CES)
- designer glove plan
- online product data sheets
- online user instructions
- online declaration of conformity
- online media database

## ISO 14001 certification

uvex safety gloves in Lüneburg is the second company within the uvex safety group to have been certified to the international environmental management standard ISO 14001. ISO 14001 focuses on the continuous improvement process, with the aim of enabling concrete environmental goals to be achieved in the long term. No other safety glove manufacturer in Europe has ever achieved this stringent certification before.

# uvex Chemical Expert System

## Chemicals database and glove plans online

As a leader of innovation, we place the highest demands on the products and services.
The uvex Chemical Expert System (CES) has been developed by experts for experts. This online tool supports you in the comprehensive analysis and optimisation of safety glove solutions for your business.

**Online chemicals database for safety gloves**

The uvex Chemical Expert System (CES) offers an extensive chemicals database for selecting 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 to discover the right chemical protection safety gloves for your specific requirements.

**Glove plan designer**

The glove plan designer in the uvex Chemical Expert System makes it quick and easy to create glove plans to ensure high safety standards in your business. Following completion of the registration process, you can either adapt existing glove plans devised by our specialists or design your own. The system helps you create a complete glove plan in a few simple steps and the high degree of customisation presents a diverse range of possibilities.

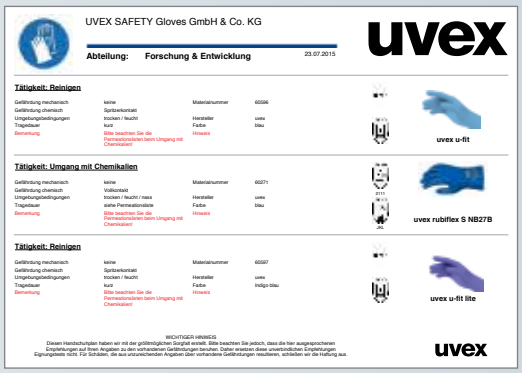
### uvex Chemical Expert System (online)

**Chemicals database for safety gloves**

Sort by Hazardous substance ⟷ Safety gloves (permeation lists)


**Gloves plan designer**

Sort by Activity ⟷ Safety gloves (gloves plans)




**Advantages of the uvex Chemical Expert System:**

- extensive database of tested chemicals
- individual creation of a permeation list
- easy selection of chemical protection safety gloves
- personal account with premium functions
- self-explanatory creation and management of glove plans
- high degree of glove plan customisation
- available in a variety of languages

**uvex – advice and product expertise from a single source.**

**https://ces.uvex.de**

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# uvex academy

## Hand protection on the job


### Practical training on industrial hand protection

Using professional delivery systems, the uvex academy offers programs which are application-based and supported by extensive use of best practice concerning personal protective equipment (PPE) and industrial health and safety standards for all businesses.

**uvex academy services:**

- mobile “academy in a briefcase” comes to your site
- workplace risk analysis and assessment
- access to independent third-party expert advice
- information on standards requirements concerning the use of safety gloves
- introduction to the relevant chemical substances and how they are classified
- information on the materials used in hand protection and their applications
- information on assessing and avoiding potential dangers in the workplace
- practical demonstration of the protective qualities of different hand protection materials
- guidance in choosing suitable safety gloves at work

For more information please call **+61 (2)** 9891 1700
or email **info@uvex-safety.com.au**

**uvex** academy

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# EN 388:2016

## Modification to the standard for cut protection gloves

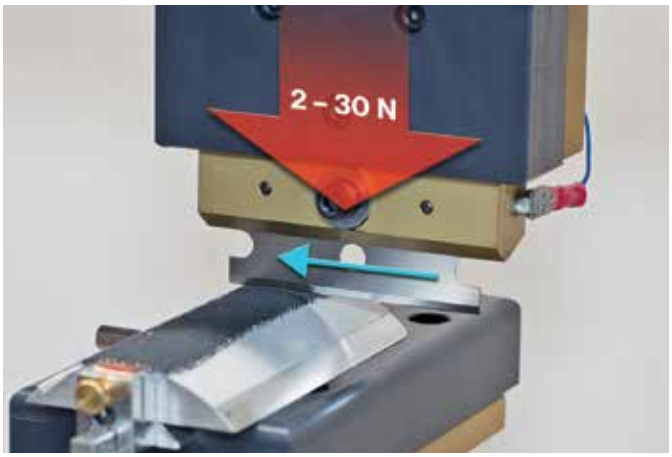
Protection classes for cut protection gloves were previously assigned in Europe in accordance with standard EN 388:2003. Due to the continuous development of technical materials – so-called 'high-performance fibres' – it has become necessary to adjust the methods used to test and classify these products. These changes have been implemented in standard EN 388:2016.

### Test procedure in accordance with EN 388:2003


- Cut resistance test using the coup test
- Rotating circular knife moves back and forth at a constant force (5 newtons) on the test material and rotates counter to the movement
- The index value results from the number of cycles required to the point at which the test piece is cut through, and from the degree of wear of the blade.
- Five measurements are performed in this way on each test piece. The average of the five index values confirms the corresponding performance class for the cut protection level of a safety glove.

| **Performance class** | 1 | 2 | 3 | 4 | 5 |
|---|---|---|---|---|---|
| **Index** | ≥ 1,2 | ≥ 2,5 | ≥ 5 | ≥ 10 | ≥ 20 |

### Test procedure in accordance with EN 388:2016/ISO 13997



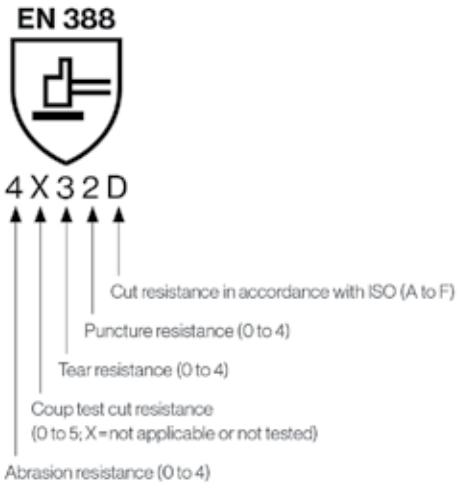

- Relates to cut protection gloves made from materials that cause the blades to become blunt (i.e. glass and steel fibres).
- Additional test procedure in accordance with ISO 13997: Determination of resistance of the glove to cutting by a sharp object through single contact under higher force
- Here, a long, straight blade is drawn once over the test piece. The minimum force required to cut through the test piece after 20 millimetres is determined in the process.
- The result is given in newtons (N) and assigned to a cut protection class.

| **Performance class** | A | B | C | D | E | F |
|---|---|---|---|---|---|---|
| **Newton value** | ≥ 2 | ≥ 5 | ≥ 10 | ≥ 15 | ≥ 22 | ≥ 30 |

No correlation can be made between the two test procedures and performance rating. The glove still offers the same high level of cut protection in practice; the only change is to the standard-based classification of its performance.

As a leading manufacturer of cut-protection products, we have state-of-the-art measurement technology for both standards in our own test laboratory, and are therefore available to answer any questions at any time.

For further information regarding the EN 388:2016 and EN ISO 374-1:2016 standards, see:
**https://www.uvex-safety.com/new-standard-cut-protection**




**Video**

# EN ISO 374-1:2016

## Modification to the Standard for chemical safety gloves

Chemical safety gloves must meet the requirements of European standard EN ISO 374-1. This standard has undergone fundamental changes in terms of certification.

**Part 1 (Terminology and performance requirements for chemical risks) contains important modifications:**

- Expansion of test chemicals from 12 to 18
- Omission of beaker glass for “water-resistant safety glove with low protection against chemical risks”
- Standardisation of types of gloves into type A, B or C
- Modification to labelling on the product:
  Pictogram of Erlenmeyer flask with differing number of letters for test chemicals depending on type

**New labelling of safety glove:**

EN ISO 374-1:2016/Type A

JKLMNO

**Permeation resistance of type A:**
at least 30 minutes each with at least 6 test chemicals.

EN ISO 374-1:2016/Type B

JKL

**Permeation resistance of type B:**
at least 30 minutes each with at least 3 test chemicals.

EN ISO 374-1:2016/Type C

**Permeation resistance of type C:**
at least 10 minutes each with at least 1 test chemical.

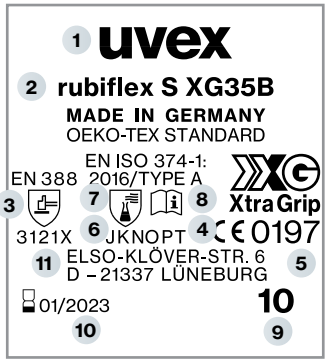
**Expansion of test chemicals:**
**The test catalogue has been expanded in accordance with the new standard.**

| | Letter symbol | Test chemical | CAS no. | Class |
|---|---|---|---|---|
| EXIPCING | A | Methanol | 67-56-1 | Primary alcohol |
| | B | Acetone | 67-64-1 | Ketone |
| | C | Acetonitrile | 75-05-8 | Nitrile |
| | D | Dichloromethane | 75-09-2 | Chlorinated hydrocarbon |
| | E | Carbon disulphide | 75-15-0 | Sulphur-containing organic compound |
| | F | Toluene | 108-88-3 | Aromatic hydrocarbon |
| | G | Diethylamine | 109-89-7 | Amine |
| | H | Tetrahydrofuran | 109-99-9 | Heterocyclic and ether compounds |
| | I | Ethyl acetate | 141-78-6 | Ester |
| | J | n-heptane | 142-82-5 | Aliphatic hydrocarbon |
| | K | Sodium hydroxide, 40% | 1310-73-2 | Inorganic base |
| | L | Sulphuric acid, 96% | 7664-93-9 | Inorganic acid, oxidising |
| NEW | M | Nitric acid, 65% | 7697-37-2 | Inorganic acid, oxidising |
| | N | Acetic acid, 99% | 64-19-7 | Organic acid |
| | O | Ammonia water, 25% | 1336-21-6 | Organic base |
| | P | Hydrogen peroxide, 30% | 7722-84-1 | Peroxide |
| | S | Hydrofluoric acid, 40% | 7664-39-3 | Inorganic acid |
| | T | Formaldehyde, 37% | 50-00-0 | Aldehyde |

As before, the application guidance of the manufacturer is of great importance. The specific protection requirement must be determined as part of a risk assessment of the actual works process taking account of the specific application conditions. A designated safety professional must define the individual requirements and secure conformation of the specific protection levels of the safety gloves from the manufacturer’s data sheets.

With the uvex Chemical Expert System, uvex provides a multilingual, online platform to search for individual permeation times. In addition, experienced staff are available on-site and in the centre of expertise for safety gloves in Lüneburg to provide advice on all questions relating to safety gloves for protection against chemical risks.

## Labelling on the glove




1 Name of the manufacturer
2 Glove Product Name
3 Performance classes, mechanical
4 CE conformity mark
5 No. of Test Institute
6 Letters symbolise test chemicals against which the glove has a protection index of at least class 2.
7 Pictogram with designation of standard
8 Note enclosed instructions for use
9 Glove size
10 Expiration date
11 Manufacturer address

## Permeation

| Time measured to penetration | Protection index |
|---|---|
| > 10 min | Class 1 |
| > 30 min | Class 2 |
| > 60 min | Class 3 |
| > 120 min | Class 4 |
| > 240 min | Class 5 |
| > 480 min | Class 6 |

Permeation refers to molecular penetration through the safety glove material. The time required by the chemicals to permeate, determines the performance class in accordance with EN ISO 374-1. The actual period of protection at the workplace may vary depending on real-time process factors.

**Your uvex account manager will be happy to provide advice.**

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# EN 16350:2014

## Protective gloves – electrostatic properties

### The new standard

Choosing the right personal protective equipment (PPE) is particularly important in working environments that are hazardous or harbour health risks. For workplaces at risk of fire and explosive atmospheres, “EN 16350:2014 – Protective gloves – electrostatic properties” is the first European standard to prescribe the test conditions and minimum requirements for electrostatic properties of safety gloves.

- vertical resistance must be less than $1.0 \times 10^8\ \Omega$ ($R_V < 1.0 \times 10^8\ \Omega$).
- test atmosphere: ambient temperature of 23 ± 1 °C, relative humidity of 25 ± 5%.

**Important notice:**
**Electrostatic discharge safety gloves are only effective if the wearer is grounded with resistance of less than $10^8\ \Omega$.**


uvex phynomic airLite A ESD

### What should users take into account?

EN 16350:2014 is the first standard to define a limit value for vertical resistance for protective gloves; this value was not included in DIN EN 1149.
Users must therefore check the suitability of the protective gloves in line with EN 16350:2014.
References to EN 1149 are no longer sufficient, as this standard only describes the testing procedure and does not specify a limit value.

### Where can safety gloves certified in accordance with EN 16350:2014 be used?

Safety gloves which have been tested in accordance with EN 16350:2014 can be used in fire and explosive hazard zones, such as refineries. They are an essential part of an uninterrupted grounding chain, which consists of gloves, protective clothing, footwear, the ground and other control measures specified within the workplace. In connection with electrostatic properties, electrostatic discharge (ESD) in the area of product protection is also assessed. Safety gloves tested according to EN 16350:2014 are suited for all ESD product protection applications.

# Safety Gloves

## Mechanical & Chemical Risks

### Precision work 96 - 100

uvex phynomic range

uvex unipur range

uvex unilite range

uvex athletic lite

### All-round 96 - 100 & 103

uvex profi ergo

uvex unilite range

uvex athletic all-round

### Heavy duty 103 & 118

uvex rubiflex

uvex rubiflex S XG

### Cut protection 102 & 106 - 114

uvex phynomic range

uvex synexo range

uvex D500 foam

uvex C500 range

uvex C300 range

uvex unidur range

uvex athletic D5 XP

### Chemical Risks 118 - 120

Coating: Nitrile

uvex rubiflex S XG

uvex rubiflex S

uvex rubiflex SZ

uvex u-chem 3100

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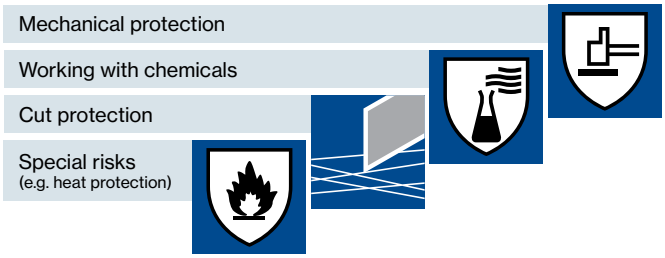
# The uvex Glove Navigator

## The fast way to find the right safety gloves

There are many factors which must be taken into consideration when selecting the appropriate safety gloves. To help you make the right choice, uvex has developed clear guidelines that include helpful symbols for selecting safety gloves for specific areas of application.

## 1. Identify and classify risk potential

**What is the main risk for users in the workplace?**
The symbols provide initial guidance to help you choose the right category for the appropriate safety gloves.




## 2. Determine individual requirements of the safety gloves

**What activities will primarily be carried out at the workplace in question?**
Will the nature of the work require precision, entail interchangeable all-round activities or place high demands on the wearer and the safety gloves?


## 3. Define the application environment

**Identify the general conditions of the workplace.**
Will activities be carried out in wet/oily, damp or dry working conditions? All of our safety gloves come with one of these 3 environment classification guidelines. The degree of suitability is determined by the aggregate of workplace conditions.


OEKO-TEX®
CONFIDENCE IN TEXTILES
STANDARD 100
S02-0648 HOHENSTEIN HTTI
Tested for harmful substances.
www.oeko-tex.com/standard100

Safety gloves certified according to Oeko-Tex® Standard 100.

MADE IN GERMANY

Safety gloves are developed and manufactured in Germany.

pure standard

Safety gloves meet the high criteria of the uvex pure standard. Gloves do not contain substances that are hazardous to health, free from solvents and accelerators, and offer optimum product protection.

climazone

Safety gloves meet the uvex climazone standard. Measureable increased breathability and reduced perspiration for greater wellbeing when wearing safety gloves.

Gloves demonstrate good skin tolerability during dermatological tests. The glove was clinically tested by the proDERM® Institute for Applied Dermatological Research (Hamburg, Germany) / (proDERM study: 11.0356-02, 11.0482-11, 13.0202-02, 15.0188-02, 15.0219-11).

Safety gloves approved for applications with industrial touchscreen monitors.

Detailed information on the award criteria applied by the certification bodies OEKO-TEX®, proDERM and Top100 can be found at: **uvex-safety.com/certificates**

# Mechanical Risks

## Area of application: precision/all-round

| | Precision | All-round | Heavy duty |
|---|---|---|---|
| | Activities where a high level of sensitivity is necessary. | General, multiple activities for which robust, stable safety gloves are required. | Tough activities requiring highly robust, abrasion resistant safety gloves. |
| | Examples: fine assembly work, working with small parts (e.g. screws), operating controls, and inspection. | Examples: servicing, transport work, light metal processing, standard assembly work, maintenance. | Examples: heavy transport work (e. g. pallet transport), construction, servicing. |
| dry |  uvex phynomic airLite A ESD; uvex phynomic lite; uvex unipur range | | |
| light moisture / oily |  uvex athletic lite |  uvex athletic all-round;  uvex unilite range;  uvex phynomic XG | |
| wet / oily | |  uvex profi ergo |  uvex rubiflex;  uvex rubiflex s XG27B |

Working areas which do not have any moisture (water, oil, fat, cooling lubricant, etc.). Safety gloves for these conditions are extremely breathable.

Examples: quality control, assembly work, distribution, and processing.

Working areas with some moisture. Safety gloves for these conditions are less breathable. The water/oil-repelling coating is crucial and also guarantees slip-resistance.

Examples: oil-coated parts, changing between dry and damp working environments.

Working areas in which hands should be protected from liquids (not chemicals). Sealed safety gloves with high slip-resistance are necessary.

Examples: removing oily/wet parts from machines, outdoor activities (weather-related humidity).

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# uvex phynomic
# Perfection in 3 dimensions

## 1. Perfect fit

**3D ergo technology –
precision all the way to the fingertips**

Ergonomic solution for every wearer:
up to 8 perfectly coordinated sizes
The advantages for the wearer:
- the glove fits like a second skin
- natural touch
- maximum flexibility for fatigue-free work

## 2. Optimum functionality

**Coatings perfectly adapted
to the application at hand**

- for dry areas:
  aqua-polymer waterproofing
- for dry and slightly damp areas: aqua-polymer foam coating
- for humid and oily areas:
  aqua-polymer xtra grip foam coating
- for wet and oily areas:
  aqua-polymer pro coating
- for applications with industrial touchscreen monitors: airLite aqua-polymer foam coating**

## 3. Skin safe – product safe

**Enhanced skin care and
product protection**

Health protection
- no skin irritation
- dermatologically approved*
- certified in accordance with OEKO-TEX® Standard 100
- free from harmful solvents (DMF, TEA)
- free from allergenic substances

Product protection
- silicone-free according to imprint test
- suitable for sensitive surfaces
- does not leave any traces/marks

climazone
MADE IN GERMANY

pure standard

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www.oeko-tex.com/standard100

proDERM
Institute for Applied Dermatological Research
dermatologically approved
Prof. K.-P. Wilhelm

* The uvex phynomic series was clinically tested by the proDERM® Institute for Applied Dermatological Research (Hamburg, Germany). The extremely good skin tolerability of uvex phynomic safety gloves has been dermatologically tested (proDERM® studies: 11.0356-02, 11.0482-11, 13.0202-02, 15.0188-02, 15.0219-11).
Detailed information on the award criteria applied by the certification bodies OEKO-TEX®, proDERM and Top100 can be found at: uvex-safety.com/certificates
** Models uvex phynomic airLite A ESD, uvex phynomic airLite B ESD, uvex phynomic airLite C ESD


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uvex
uvex

uvex

# Mechanical Risks

## Area of application: precision/all-round

**An intelligent future**
More and more companies are integrating intelligent methods into their production process. The digitalisation of industrial production (Industry 4.0. ) is still on its way. You will be equipped for the future with the uvex phynomic airLite A ESD thanks to its touchscreen compatibility for use on almost all screens, tablets and mobile phones.

**This applies to all products marked with this symbol.**

**Health protection and the latest uvex coating technology**
The newly developed “airLite” aqua-polymer coating in combination with a high-quality liner (18 gauge) offers not only touchscreen compatibility but also the highest sensitivity and tactile feel for precision work when handling very small or fine components.

It has also been tested by the proDERM® institute in an elaborate user-study process and its skin compatibility has been dermatologically approved.

**The uvex phynomic airLite ESD range also offers gloves with cut protection in Cut Level B and C.**
**See page 106 for details.**


EN 388:2016
3110X

dermatologically approved
OEKO-TEX® STANDARD 100
pure standard
MADE IN GERMANY

## uvex phynomic airLite A ESD

- ultra lightweight 18 gauge liner cut level 1
- anti-static in accordance with EN 13650:2014
- outstanding wearer comfort with flexibility and secure grip
- ergonomic fit providing exceptional dexterity right to the fingertips
- suitable for use with touchscreens
- dermatological approved
- free from hazardous substances in accordance with OEKO-TEX® Standard 100
- ideal for use on touchscreens, ESD areas, precision assembly work, work in antistatic areas, inspection/maintenance and sorting

Areas of application:
- work on touchscreens
- ESD Areas
- precision assembly work
- for work in antistatic areas
- inspection/maintenance
- sorting

| | uvex phynomic airLite A ESD |
|---|---|
| **Part no.** | 60038 |
| **Design** | knitted cuff |
| **Standard** | EN 388 (3 1 1 0 X), DIN EN 16350:2014 |
| **Material** | polyamide, elastane, carbon |
| **Coating** | palm and fingertips with airLite aqua-polymer coating |
| **Suitable for** | dry and slightly damp areas |
| **Colour** | black |
| **Sizes** | 6 to 12 |

# Mechanical Risks

## Area of application: precision/all-round


EN 388:2016
3121X

phynomic lite

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EN 388:2016
4121X

phynomic XG

MADE IN GERMANY

## uvex phynomic lite

- the most lightweight safety glove in its class reduces the onset of fatigue
- good mechanical abrasion resistance thanks to the very thin but highly durable aqua-polymer impregnation
- good grip in dry and slightly damp areas
- very high level of breathability with the porous coating, which reduces sweating
- outstanding tactile feel when handling small parts

Areas of application:
- precision assembly work
- precision work
- inspection
- sorting

## uvex phynomic XG

- flexible and extremely durable assembly glove with the best oil grip in its class
- outstanding mechanical abrasion resistance thanks to the aqua-polymer Xtra Grip coating
- outstanding grip in oily areas
- high level of breathability with the porous foam coating
- very good tactile feel when assembling (oily) parts

Areas of application:
- precision work
- assembly
- maintenance
- repair work
- metal processing
- concrete/construction work

| | uvex phynomic lite |
|---|---|
| **Part no.** | 60040 |
| **Design** | knitted cuff |
| **Standard** | EN 388 (3 1 2 1 X) |
| **Material** | polyamide, elastane |
| **Coating** | palm and fingertips with aqua-polymer impregnation |
| **Suitable for** | dry and slightly damp areas |
| **Colour** | grey, grey |
| **Sizes** | 7 to 11 |

| | uvex phynomic XG |
|---|---|
| **Part no.** | 60070 |
| **Design** | knitted cuff |
| **Standard** | EN 388 (4 1 2 1 X) |
| **Material** | polyamide, elastane |
| **Coating** | aqua-polymer xtra grip foam coating on palm and fingertips |
| **Suitable for** | damp and oily working conditons |
| **Colour** | black, black |
| **Sizes** | 6 to 11 |

# Mechanical Risks

## Area of application: precision/all-round


EN 388:2016
4132X

60027


EN 388:2016
4122X

60028

## uvex athletic lite

- lightweight and sensitive safety glove for mechanical tasks
- matt, porous and particularly abrasion-resistant NBR microfoam coating
- very good grip in dry and slightly damp areas
- high breathability thanks to the porous coating, reducing sweating
- perfect fit thanks to the “slim fit” design and elastane in the liner
- free from hazardous substances in accordance with OEKO-TEX® Standard 100

Areas of application:
- precision assembly work
- maintenance
- inspection
- sorting

## uvex athletic all-round

- lightweight and dirt-resistant all-round safety glove for mechanical tasks
- very good mechanical abrasion resistance thanks to the breathable NBR foam coating
- very good grip in dry and slightly damp areas
- perfect fit thanks to the “slim fit” design and elastane with liner
- free from hazardous substances in accordance with OEKO-TEX® Standard 100

Areas of application:
- maintenance
- assembly
- transport/packaging work
- sorting

| | uvex athletic lite |
|---|---|
| **Part no.** | 60027 |
| **Design** | knitted cuff |
| **Standard** | EN 388 (4 1 3 2 X) |
| **Material** | polyamide, elastane |
| **Coating** | palm and fingertips with NBR matt microfoam coating |
| **Suitable for** | dry and slightly damp areas |
| **Colour** | blue, anthracite |
| **Sizes** | 6 to 11 |

| | uvex athletic all-round |
|---|---|
| **Part no.** | 60028 |
| **Design** | knitted cuff |
| **Standard** | EN 388 (4 1 2 2 X) |
| **Material** | polyamide, elastane |
| **Coating** | palm and fingertips with NBR foam coating |
| **Suitable for** | dry and slightly damp areas |
| **Colour** | grey, anthracite |
| **Sizes** | 6 to 11 |

# Mechanical Risks

## Area of application: precision/all-round


EN 388:2016
4141X

UP6631


EN 388:2016
4122X

UL6605

## uvex unipur 6631

- light safety glove for mechanical precision work
- good mechanical abrasion resistance
- good grip in dry and slightly damp areas
- outstanding dexterity
- highly flexible

Areas of application:
- construction
- horticulture
- light and dry components assembly
- light duty maintenance work
- fine assembly work
- precision work
- small gear mechanisms

## uvex unilite 6605

- 15 gauge lightweight knitted glove with NBR foam coat
- perfect for mechanical precision work requiring high levels of dexterity
- good mechanical abrasion resistance
- nylon liner provides good combination of flexibility and durability
- good grip in wet, oily and greasy conditions

Areas of application:
- ideal for application requiring grip in greasy or oily tasks
- tasks that require dexterity and where durability of the glove is essential

| | uvex unipur 6631 |
|---|---|
| **Part no.** | UP6631 |
| **Design** | knitted cuff |
| **Standard** | EN 388 (4 1 4 1 X) |
| **Material** | polyamide |
| **Coating** | palm and fingertips coated with polyurethane coating |
| **Suitable for** | dry and slightly damp areas of application |
| **Colour** | grey, grey |
| **Sizes** | 6 to 11 |

| | uvex unilite 6605 |
|---|---|
| **Part no.** | UL6605 |
| **Design** | knitted cuff |
| **Standard** | EN 388 (4 1 2 2 X) |
| **Material** | polyamide |
| **Coating** | palm and fingertips coated with nitrile foam coating |
| **Suitable for** | damp, oily or greasy areas of application |
| **Colour** | black, black |
| **Sizes** | 6 to 11 |

# Mechanical Risks

## Area of application: precision/all-round


EN 388:2016
4132X

UL6607


EN 388:2016
4131X

UL7700

### uvex unilite 6607

- 15 gauge lightweight knitted glove with NBR micro-cell foam coat
- fine-knit spandex liner provides greater dexterity and durability
- “second skin” fit increases comfort for long wear
- excellent grip in extremely greasy applications due to micro cell coating technology
- good dexterity
- highly flexible

Areas of application:
- wet and greasy or oily tasks where grip is essential
- areas and tasks that require high abrasion resistance with excellent grip
- engineering and maintenance tasks where dexterity is needed

| | uvex unilite 6607 |
|---|---|
| **Part no.** | UL6607 |
| **Design** | knitted cuff |
| **Standard** | EN 388 (4 1 3 2 X) |
| **Material** | polyamide |
| **Coating** | foam nitrile micro cell palm and fingertips coated |
| **Suitable for** | damp, oily or greasy areas of application |
| **Colour** | grey, black |
| **Sizes** | 6 to 11 |

### uvex unilite 7700

- 15 gauge nylon/spandex blended liner for fit, flexibility & durability
- long wearing safety glove for mechanical precision work
- ideal for extremely greasy and oily areas due to dual coating technology (water based PU with NBR foam)
- PU/NBR dual coating provides highest abrasion resistance for long product life
- fits like a “second skin” providing maximum dexterity

Areas of application:
- wet and greasy or oily tasks where grip is essential
- areas and tasks that require high abrasion resistance
- dexterity and durability for heavy engineering & maintenance

| | uvex unilite 7700 |
|---|---|
| **Part no.** | UL7700 |
| **Design** | knitted cuff |
| **Standard** | EN 388 (4 1 3 1 X) |
| **Material** | polyamide, elastane |
| **Coating** | palm and fingertips coated with NBR/polyurethane coating |
| **Suitable for** | wet, oily or greasy areas of application |
| **Colour** | grey, black |
| **Sizes** | 7 to 11 |


uvex
uvex

# Mechanical Risks

## Area of application: heavy duty/impact protection/construction

**The challenges faced in the construction industry are diverse, with tasks ranging from preparatory site works and civil engineering to building installation and interior fitting. To achieve great results, everyone involved must work in flawless synergy with each other – as must all items of personal protective equipment.**

uvex has developed and selected over 150 innovative PPE products for the construction industry, all of which are designed to meet the specific needs of the sector.


synexo impact 1

All products marked with this symbol are particularly suitable for use in the construction industry. You can find more information on the relevant product pages.


## uvex synexo impact 1

- seamless cut protection glove with impact protectors for heavy-duty activities, especially in the oil and gas industry
- very high level of cut protection with HPPE and glass fibre combination
- good grip in dry and damp areas
- good protection against shocks and impacts thanks to the extra padding in the palm area
- protectors on the back of the hand and reinforcements on the finger joints offer additional protection from impact and pinch injuries
- good fit
- high flexibility
- good wearer comfort

Areas of application:
- heavy-duty mechanical work
- mining
- oil and gas industry
- heavy-duty construction work

| | uvex synexo impact 1 |
|---|---|
| **Part no.** | 60598 |
| **Design** | protectors on the back of the hand, hook-and-loop fastening, padding in the palm area, knitted cuff |
| **Standard** | EN 388 (4 X 4 3 C P) |
| **Material** | HPPE, glass, nylon |
| **Coating** | palm and fingertips with NBR coating (nitrile rubber) and grip finish |
| **Suitable for** | for dry areas and damp, oily working conditions |
| **Colour** | yellow, black |
| **Sizes** | 7 to 11 |

**For heavy-duty applications, uvex also offers safety gloves from the HexArmor® brand. More information: www.hexarmor.au**

# Mechanical Risks

## Area of application: all-round/heavy duty

### uvex profi ergo

- cotton interlock safety glove with NBR coating for universal use
- very good grip in damp, wet and oily areas
- good dexterity
- ergonomic fit
- high flexibility
- very good wearer comfort due to perspiration absorption of the cotton lining
- alternative glove for people who have issues with synthetic knitted gloves (i.e. skin irritations)

Areas of application:
- light/medium metal processing
- repairs/maintenance
- general handyman work


EN 388:2016
2121X

NB20A


EN 388:2016
2121X

ENB20

| | uvex profi ergo NB20A | uvex profi ergo ENB20 |
|---|---|---|
| **Part no.** | NB20A | ENB20 |
| **Design** | knitted cuff | knitted cuff |
| **Standard** | EN 388 (2 1 2 1 X) | EN 388 (2 1 2 1 X) |
| **Material** | cotton interlock | cotton interlock |
| **Coating** | palm and ¾ of the back of the hand with special NBR coating (nitrile rubber) | palm and whole back of the hand with special NBR coating (nitrile rubber) |
| **Suitable for** | damp, oily or greasy areas of application | damp, oily or greasy areas of application |
| **Colour** | white, orange | white, orange |
| **Sizes** | 7 to 10 | 7 to 10 |

OEKO-TEX® STANDARD 100 502-0648 HOHENSTEIN HTTI

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### uvex rubiflex

- fully coated cotton interlock safety glove for mechanical activities
- very good mechanical abrasion resistance with NBR coating
- good dexterity
- ergonomic fit

Areas of application:
- construction industry
- manufacturing
- refining
- warehousing / logistics


EN 388:2016
3111X

NB27

| | uvex rubiflex NB27 |
|---|---|
| **Part no.** | NB27 |
| **Design** | gauntlet, approx. 27 cm |
| **Standard** | EN 388 (3 1 1 1 X) |
| **Material** | cotton interlock |
| **Coating** | fully coated with special NBR coating (nitrile rubber) |
| **Suitable for** | damp, oily or greasy areas of application |
| **Colour** | orange |
| **Sizes** | 7 to 11 |

OEKO-TEX® STANDARD 100 502-0648 HOHENSTEIN HTTI

MADE IN GERMANY

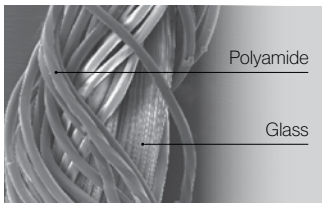
uvex

# Mechanical Risks

## Innovative products for effective protection

Effective hand protection means striking the perfect balance between reliable protection and a comfortable fit – as only safety gloves which are worn can fulfill their purpose. uvex is continuously developing innovative fibre and coating technologies such as the patented Bamboo TwinFlex® technology.

In everyday use, the relationship between cut and tear resistance properties is critical. The required level of cut protection is achieved through a high concentration of glass fibres, the tear resistance could be compromised.



Solid construction. Core – shell – thread.

The techniques used to combine materials such as glass or steel fibres, are key to determining wearer comfort and acceptance. Skin should only come into contact with fibres that are nonirritating and features such as fit and dexterity change yet again when coatings are applied. Equally coatings need to be highly durable to ensure cost effectiveness.

**The new classification of cut protection gloves in accordance with EN 388:2016/ISO 13997**

The modifications made to the new DIN EN 388:2016/ISO 13997 standard are of particular relevance to cut protection gloves made from materials that cause the blades used to become blunt (e.g. glass and steel fibres).

As a leading manufacturer of cut-protection products, we have invested in state-of-the-art measurement technology for both standards in our test laboratory, and are well placed to address questions on most matters at anytime.

| **Differences** | **EN 388:2003** | **EN 388:2016/ISO 13997** |
|---|---|---|
| Blade type | round | straight |
| Cutting method | rotating with repeated contact | straight with single contact |
| Application of force | constant at 5 N | variable between 2 and 30 N |

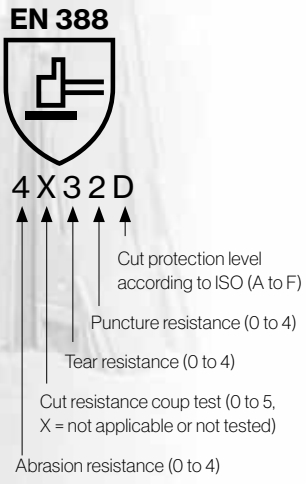
**Classification of cut performance levels**

| **EN 388:2003** | 1 | 2 | 3 | 4 | 5 |
|---|---|---|---|---|---|
| **Index** | ≥ 1,2 | ≥ 2,5 | ≥ 5 | ≥ 10 | ≥ 20 |

| **EN 388:2016/ ISO 13997** | A | B | C | D | E | F |
|---|---|---|---|---|---|---|
| **Newton value** | ≥ 2 | ≥ 5 | ≥ 10 | ≥ 15 | ≥ 22 | ≥ 30 |

**Labelling of safety gloves**

The performance levels are identified in the EN 388:2016/ ISO 13997 standard pictogram:



# Mechanical Risks

## Cut protection at a glance

| ISO Level 13997 | Precision | All-round | Heavy duty | |
|---|---|---|---|---|
| D | uvex athletic D5 XP | uvex D500 foam | | |
| C | uvex phynomic airLite C ESD; uvex C500 dry; uvex C300 dry; uvex phynomic C5 | uvex C300 foam; uvex C500 foam; uvex unidur 6659 foam; uvex C300 wet & wet plus; uvex synexo M500 | uvex C500 wet; uvex C500 wet plus; uvex synexo impact 1 | |
| B | uvex phynomic airLite B ESD | uvex unidur 6641 & UD6613; uvex unidur 6649 OR | | |

Dry  Moisture/light oily  Wet/oily

# Mechanical Risks

## Areas of application: cut protection


◀ super light and thin (18 GG) ▶


## uvex phynomic airLite B ESD

- ultra lightweight 18 gauge liner cut level B
- anti-static in accordance with EN 13650:2014
- outstanding wearer comfort with flexibility and secure grip
- ergonomic fit providing exceptional dexterity right to the fingertips
- suitable for use with touchscreens
- dermatological approved
- free from hazardous substances in accordance with OEKO-TEX® Standard 100
- ideal for use on touchscreens and in ESD areas with a need for moderate cut protection, work in antistatic areas, inspection/ maintenance and handling of sharp objects in manufacturing environments

Areas of application:
- work on touchscreens and in ESD areas with a need for moderate cut protection
- work in antistatic areas
- inspection/maintenance
- handling of sharp objects in manufacturing environments

| | uvex phynomic airLite B ESD |
|---|---|
| **Part no.** | 60078 |
| **Design** | knitted cuff |
| **Standard** | EN 388 (3 X 3 2 B), DIN EN 16350:2014 |
| **Material** | Dyneema® Diamond Technology, polyamide, elastane, carbon |
| **Coating** | aqua-polymer coating airLite on palm and fingertips |
| **Suitable for** | dry and slightly damp areas |
| **Colour** | sky blue, black |
| **Sizes** | 6 to 12 |


## uvex phynomic airLite C ESD

- ultra lightweight 18 gauge liner cut level C
- anti-static in accordance with EN 13650:2014
- outstanding wearer comfort with flexibility and secure grip
- ergonomic fit providing exceptional dexterity right to the fingertips
- suitable for use with touchscreens
- dermatological approved
- free from hazardous substances in accordance with OEKO-TEX® Standard 100
- ideal for use on touchscreens and in ESD areas with a need for high cut protection, work in antistatic areas, Inspection/maintenance and handling of sharp objects in manufacturing environments

Areas of application:
- work on touchscreens and in ESD areas with a need for high cut protection
- work in antistatic areas
- inspection/maintenance
- handling of sharp objects in manufacturing environments

| | uvex phynomic airLite C ESD |
|---|---|
| **Part no.** | 60084 |
| **Design** | knitted cuff |
| **Standard** | EN 388 (3 X 4 2 C), DIN EN 16350:2014 |
| **Material** | polyamide, elastane, carbon |
| **Coating** | Dyneema® Diamond 2.0 Technology, polyamide, elastane, carbon |
| **Suitable for** | dry and slightly damp areas |
| **Colour** | blue, black |
| **Sizes** | 6 to 12 |

# Mechanical Risks

## Area of application: cut protection

Crouch zone reinforcement ▶


EN 388:2016
4X43D

60030


EN 388:2016
4X42C

phynomic C5

pure standard

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## uvex athletic D5 XP

- very high cut protection (Level D)
- NBR matt microfoam coating
- good grip on dry and (slightly oily/ wet workplaces
- very good mechanical abrasion resistance
- reinforced thumb crotch
- high flexibility, very good fit
- very good tactile feel
- suitable for industrial washing

Areas of application:
- automotive industry
- metalworking industry
- glass industry
- inspection
- sorting
- packaging

## uvex phynomic C5

- lightweight and sensitive all-round cut protection safety glove for mechanical activities
- very good mechanical abrasion resistance thanks to the moisture-resistant aqua-polymer foam coating
- very good grip in dry and slightly damp areas
- very good cut protection (level C) and high tear resistance
- highly breathable coating
- outstanding tactile feel when assembling parts
- outstanding protection for the wearer and the product

Areas of application:
- precision assembly work
- precision work
- inspection
- sorting

| | uvex athletic D5 XP |
|---|---|
| **Part no.** | 60030 |
| **Design** | knitted cuff |
| **Standard** | EN 388 (4 X 4 3 D) |
| **Material** | HPPE, steel, polyamide, elastane |
| **Coating** | palm and fingertips coated, NBR matt microfoam coating |
| **Suitable for** | dry and slightly damp/oily working conditions |
| **Colour** | grey, anthracite |
| **Sizes** | 6 to 11 |

| | uvex phynomic C5 |
|---|---|
| **Part no.** | 60081 |
| **Design** | knitted cuff |
| **Standard** | EN 388 (4 X 4 2 C) |
| **Material** | Dyneema® Diamond Technology, polyamide, elastane |
| **Coating** | palm and fingertips with aqua-polymer foam coating |
| **Suitable for** | dry areas and slightly damp areas |
| **Colour** | blue, grey |
| **Sizes** | 5 to 12 |

# The comfort class in cut protection

## The latest generation of Bamboo TwinFlex® technology

uvex cut protection gloves based on the latest generation of patented uvex Bamboo TwinFlex® technology set new standards in protection, comfort, flexibility, dexterity and economy. The comfort class in robust cut protection helps increase wearer acceptance – particularly when carrying out demanding activities. The unique combination of natural bamboo and high-tech protective fibres ensures a high level of wearer comfort and good climate control while also providing effective protection. After all, a safety glove can only help to prevent accidents if the user actually wears it.

## Cut protection level C and D

### Bamboo TwinFlex® technology – high-tech for added comfort

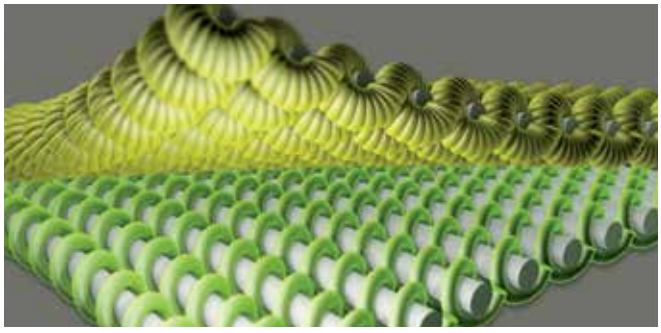
- robust and comfortable
- bamboo – environmentally friendly, renewable raw material
- cooling effect
- regular fit

**Patented Bamboo TwinFlex® protection**
Cut-resistant glass fibres and abrasion-resistant polyamide guarantee optimum mechanical protection. The use of steel fibres in combination with polyamide increases the cut protection to as high as level D.

**Patented Bamboo TwinFlex® comfort**
Soft, comfortable bamboo yarn for a soft feel and perfect climate control combined with resistant HPPE fibres for high tear resistance. The combination of bamboo yarn with innovative DSM Dyneema® diamond fibres provides a further significant boost to tear and cut resistance.

**Bamboo TwinFlex® Technology[1]**

**Cut protection level C**



**Polyamide**
(abrasion resistance)

**Glass fibres**
(cut protection)

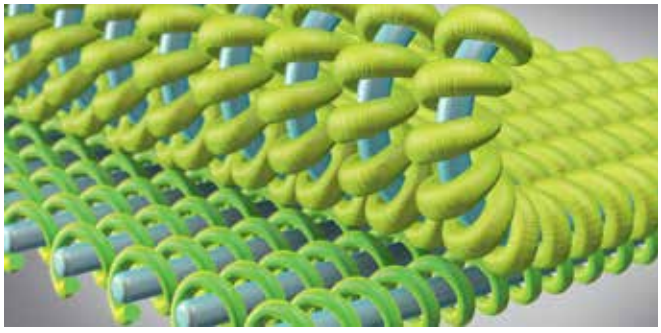
**Bamboo**
(wearer comfort)

**High-grade HPPE fibres**
(tear resistance)

**e.g. uvex C500 M, uvex C500 and uvex C300**

Double Face Principle

**Cut protection level D**



**Polyamide**
(abrasion resistance)

**Steel fibres**
(cut protection)

**Bamboo**
(wearer comfort)

**DSM Dyneema® Diamond fibre[2]**
(cut resistance/tear resistance)

**e.g. uvex D500 foam**



1 Bamboo TwinFlex® technology is a registered brand of UVEX SAFETY Gloves GmbH & Co. KG., Germany.
2 DSM Dyneema® Diamond is a registered trademark of Royal DSM N.V.

## uvex D500 foam

Uncompromisingly robust
without loss of comfort


SoftGrip coating

Cut protection level D

3D Ergo technology

Regular Fit

OEKO®-TEX Standard 100

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## First-class climate control

uvex climazone – measurably enhanced comfort

- reduced sweating
- high breathability
- significantly greater moisture absorption compared to other yarns

Wearer comfort and an improved microclimate are the ultimate benchmarks in safety gloves. This is why the uvex climazone glove climate control system is being continuously developed together with market-leading partners and renowned testing and research institutes, such as the Hohenstein Institute and the Pirmasens Institute (PFI). Individual measurement facilities, such as the PFI's Climatester, provide a specific insight into thermo-physiological and skin-sensory wearer comfort.

climazone

# Mechanical Risks

## Area of application: cut protection


D500 foam


C500 foam


C500 wet

## uvex D500 foam

- excellent dexterity
- high abrasion resistance thanks to the innovative Soft-Grip-Coating
- very good grip in slighty damp enviroments
- very high uvex cut protection with Bamboo Twin Flex® Technology
- high flexibility
- very good tactile feel
- perfect fit with 3D Ergo man mold technology

Areas of application:
- automotive industry
- construction
- brewery, beverage industry
- glass industry
- maintenance, servicing
- metal work industry

## uvex C500

- cut protection safety gloves with outstanding wearer comfort
- outstanding mechanical abrasion resistance thanks to the innovative Soft Grip coating
- very good grip
- very high level of cut protection - patented uvex Bamboo TwinFlex® technology
- models suitable for contact heat up to +100 °C, in line with EN 407 (uvex C500 foam and C500 wet)
- highly flexible
- very good tactile feel
- perfect fit with 3D Ergo technology
- silicone-free according to imprint test

Areas of application:
- metal industry
- automotive
- transportation
- assembly
- glass industry
- maintenance & repair
- shipping/logistics
- brewery/beverage industry
- paper industry
- construction

| | uvex D500 foam |
|---|---|
| **Part. no.** | 60604 |
| **Design** | knitted cuff |
| **Standard** | EN 388 (4 X 4 2 D) |
| **Material** | bamboo-rayon, Dyneema® Diamond, steel polyamide |
| **Coating** | palm and fingertips with high-performance elastomer (HPE) |
| | and SoftGrip foam coating |
| **Suitable for** | dry areas and slightly damp areas |
| **Colour** | lime, anthracite |
| **Sizes** | 7 to 11 |

| | uvex C500 foam | uvex C500 wet & wet plus |
|---|---|---|
| **Part no.** | HX60494 | HX60492 (wet) |
| | | HX60496 (wet plus) |
| **Design** | knitted cuff | knitted cuff |
| **Standard** | EN 388 (4 X 4 2 C), EN 407 (X 1 X X X X) | EN 388 (4 X 4 2 C), EN 407 (X 1 X X X X) |
| **Material** | bamboo rayon, HPPE, glass, polyamide | bamboo rayon, HPPE, glass, polyamide |
| **Coating** | palm and fingertips with high performance elastomer (HPE) and Soft Grip foam coating | palm and fingertips with high performance elastomer (HPE) coating. Also avail. ¾ coat |
| **Suitable for** | dry areas and slightly damp areas | damp, oily or greasy areas of application |
| **Colour** | lime, anthracite | lime, anthracite |
| **Sizes** | 7 to 11 | 7 to 11 |

# Mechanical Risks

## Area of application: cut protection

EN 388:2003
2 5 4 X
EN 388:2016
X X 4 X C

C500 dry

climazone
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EN 388:2003
2 5 4 X
EN 388:2016
2 X 4 X C

C500 sleeve

climazone
MADE IN GERMANY

## uvex C500

- cut protection safety gloves and underarm protection (uvex C500 sleeve) with outstanding wearer comfort
- outstanding mechanical abrasion resistance thanks to the innovative Soft Grip coating
- very good grip
- very high level of cut protection - patented uvex Bamboo TwinFlex® technology
- highly flexible
- very good tactile feel
- perfect fit with 3D Ergo technology
- silicone-free according to imprint test

Areas of application:
- metal industry
- automotive
- transportation
- assembly
- glass industry
- maintenance & repair
- shipping/logistics
- brewery/beverage industry
- paper industry
- construction

| | uvex C500 dry | uvex C500 sleeve |
|---|---|---|
| **Part. no.** | HX60499 | HX60491 |
| **Design** | knitted cuff | underarm protection with hook and loop fastening |
| **Standard** | EN 388 (X X 4 X C) | EN 388 (2 X 4 X C) |
| **Material** | bamboo rayon, HPPE, glass, polyamide | bamboo rayon, HPPE, glass, polyamide |
| **Coating** | palm and fingers with high performace vinyl (HPV) | none |
| | grip dots | 40cm length |
| **Suitable for** | dry areas of application | dry areas of application |
| **Colour** | lime, anthracite | lime |
| **Sizes** | 7 to 11 | one size fits all |

uvex

# Mechanical Risks

## Area of application: cut protection


EN 388:2003 4342
EN 388:2016 3X42C

C300 foam


EN 388:2003 4342
EN 388:2016 4X42C

C300 wet


EN 388:2003 4342
EN 388:2016 4X42C

C300 wet plus

EN 388:2003 234X
EN 388:2016 XX4XC

C300 dry

OEKO-TEX® CONFIDENCE IN TEXTILES STANDARD 100 5O2-0648 HOHENSTEIN HTTI

climazone

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## uvex C300

- cut protection glove with excellent wearer comfort
- outstanding mechanical abrasion resistance thanks to the innovative Soft Grip coating (uvex C300 foam, uvex C300 wet and uvex C300 wet plus)
- very good grip in dry (all models), slightly damp (uvex C300 foam), and wet (uvex C300 wet and uvex C300 wet plus) environments
- good cut protection with patented uvex Bamboo TwinFlex® technology
- highly flexible
- very good dexterity
- perfect fit with 3D Ergo technology
- silicone-free according to imprint test

Areas of application:
- automotive industry
- engineering
- aerospace
- metal industry
- maintenance
- assembly
- transport
- construction
- oil & gas

| | uvex C300 foam | uvex C300 wet | uvex C300 wet plus | uvex C300 dry |
|---|---|---|---|---|
| **Part no.** | HX60544 | HX60542 | HX60546 | HX60549 |
| **Design** | knitted cuff | knitted cuff | knitted cuff | knitted cuff |
| **Standard** | EN 388 (3 X 4 2 C) | EN 388 (4 X 4 2 C) | EN 388 (4 X 4 2 C) | EN 388 (X X 4 X C) |
| **Material** | bamboo rayon, HPPE, glass, polyamide | bamboo rayon, HPPE, glass, polyamide | bamboo rayon, HPPE, glass, polyamide | bamboo rayon, HPPE, glass, polyamide |
| **Coating** | palm and fingertips with high performance elastomer (HPE) and Soft Grip foam coating | palm and fingertips with high performance elastomer (HPE) coating | palm and ¾ of the back of the hand with high performance elastomer (HPE) coating | palm and fingers with high performance vinyl (HPV) grip dots |
| **Suitable for** | dry and slightly damp areas of application | damp, oily or greasy areas of application | damp, oily or greasy areas of application | dry areas of application |
| **Colour** | anthracite | anthracite | anthracite | anthracite |
| **Sizes** | 7 to 11 | 7 to 11 | 7 to 11 | 7 to 11 |

# Mechanical Risks

## Area of application: cut protection


EN 388:2003
4343
EN 388:2016
4343B

UD6641


EN 388:2003
4343
EN 388:2016
4343B

UD6613


EN 388:2016
4344B

UD6649OR

construction

## uvex unidur 6641

- PU cut protection safety glove with high-quality Special Cut Performance PE fibre
- outstanding mechanical abrasion resistance thanks to a good combination of fibres and coating
- good grip in dry and slightly damp areas
- good cut protection due to high-quality Special Cut Performance PE fibre
- very good dexterity
- highly flexible
- outstanding comfort

Areas of application:
- construction industry
- maintenance
- assembly
- horticulture/agriculture

| | uvex unidur UD6641 |
|---|---|
| **Part no.** | UD6641 |
| **Design** | knitted cuff |
| **Standard** | EN 388 (4 3 4 3 B) |
| **Material** | HPPE, elastane |
| **Coating** | palm and fingertips with polyurethane coating |
| **Suitable for** | dry areas and slightly damp areas |
| **Colour** | white, grey |
| **Sizes** | 7 to 11 |

## uvex unidur cable pulling glove 6613

- Fingerless at thumb, fore and index finger
- PU cut protection safety glove with high-quality Special Cut Performance PE fibre
- outstanding mechanical abrasion resistance good grip in dry and slightly damp areas
- good cut protection due to high-quality Special Cut Performance PE fibre
- very good dexterity
- highly flexible
- outstanding comfort

Areas of application:
- electrical trades (not for voltage protection)
- building/construction works
- tasks needing cut protection and high levels of dexterity

| | uvex unidur cable pulling glove UD6613 |
|---|---|
| **Part no.** | UD6613 |
| **Design** | fingerless at thumb, fore & index finger, knitted cuff |
| **Standard** | EN 388 (4 3 4 3 B) |
| **Material** | HPPE, elastane |
| **Coating** | palm and fingertips with polyurethane coating |
| **Suitable for** | dry areas and slightly damp areas |
| **Colour** | white, grey |
| **Sizes** | 7 to 11 |

## uvex unidur 6649 foam OR

- NBR cut protection glove with HPPE fibres
- outstanding mechanical abrasion resistance
- good grip in damp and slightly damp areas
- good cut protection with HPPE fibres
- good dexterity
- highly flexible
- good wearer comfort

Areas of application:
- dry or slightly oily tasks where grip is essential
- areas and tasks that require high abrasion resistance where cut protection is needed

| | uvex unidur UD6649 foam OR |
|---|---|
| **Part no.** | UD6649OR |
| **Design** | knitted cuff |
| **Standard** | EN 388 (4 3 4 4 B) |
| **Material** | HPPE, polyamide, elastane |
| **Coating** | palm and fingertips with NBR (Nitrile Butadiene rubber) foam coating |
| **Suitable for** | dry areas and slightly damp areas |
| **Colour** | orange, black |
| **Sizes** | 7 to 11 |

# Mechanical Risks

## Area of application: cut protection


EN 388:2003
4543

EN 388:2016
4X43C

UD6659 FOAM


EN 388:2016
4X42C

synexo M500

construction

## uvex unidur 6659 FOAM

- outstanding cut protection - cut level 5
- NBR Foam coated palm and fingertips for good grip and breathability
- outstanding dexterity
- flexible
- high abrasion and tear resistance
- mechanical strength

Areas of application:
- construction
- mechanical maintenance / assembly
- horticulture / agriculture
- cut protection applications that require a more flexible coating

## uvex synexo M500

- seamless mechanic's glove with outstanding cut protection and reinforced thumb joints for heavy-duty activities
- very high level of cut protection with HPPE and glass fibre combination
- good grip in dry and damp areas
- good protection against shocks and impacts thanks to the extra padding in the palm area
- good fit
- high flexibility
- good wearer comfort
- hook-and-loop fastening

Areas of application:
- heavy-duty mechanical work
- construction work
- mining
- repair work

| | uvex unidur 6659 FOAM |
|---|---|
| **Part no.** | UD6659 |
| **Design** | knitted cuff |
| **Standard** | EN 388 (4 X 4 3 C) |
| **Material** | HPPE, glass, polyamide |
| **Coating** | palm and fingertips with NBR (nitrile butadien rubber) foam coating |
| **Suitable for** | dry areas and slightly damp areas |
| **Colour** | mottled gre, black |
| **Sizes** | 7 to 11 |

| | uvex synexo M500 |
|---|---|
| **Part no.** | 60022 |
| **Design** | hook-and-loop fastening, padding in palm area, knitted cuff |
| **Standard** | EN 388 (4 X 4 2 C) |
| **Material** | HPPE, glass, nylon |
| **Coating** | palm and fingertips with NBR coating (nitrile rubber) and grip finish |
| **Suitable for** | for dry areas and damp, oily working conditions |
| **Colour** | yellow, black |
| **Sizes** | 7 to 11 |


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# Chemical Risks

## Selecting the right hand protection

Selecting the right safety gloves is absolutely essential when working with chemicals. Chemical protection safety gloves protect wearers from possible hazards that can cause permanent damage or even death.

As an active partner, uvex offers suitable product solutions and competent expert advice, including on-site visits. uvex's application technicians in Lüneburg (Germany) are on hand to contribute their expertise in order to co-develop the perfect solutions for any environment. In addition, uvex's test laboratory can create customer-specific permeation lists that are in accordance with the requirements of respective norms.


**We would be glad to provide you with individual advice on workplace analysis and resistance lists.**

# Chemical Expert System: uvex online chemicals database

The choice and product life of chemical protection safety gloves is essentially determined by the resistance of the glove material to the chemicals being used.

As a manufacturer, uvex's comprehensive online chemicals database offers quick and clear support. Just a few steps is all it takes to find information on the resistance of uvex safety gloves when working with particular chemicals.

Benefits at a glance:
- online database is always available (24/7)
- easy to use in many different languages
- registered users have full access to test results for all listed chemicals
- personal account with premium functions
- individual creation of permeation lists and glove plans

**Website**

1


Entry page to chemicals database

2


Variety of different search options

3


Clear overview of results

4


Option to save search results

# Chemical Risks

## Safety gloves with cotton support: NBR coating

Exceptional grip

EN ISO 374-1:2016/Type A

JKNOPT

EN 388:2016

3121X

XG27B

Xtra Grip

MADE IN GERMANY

Exceptional grip

EN ISO 374-1:2016/Type A

JKNOPT

EN 388:2016

3121X

XG35B

Xtra Grip

MADE IN GERMANY

## uvex rubiflex S XG

- lightweight, NBR chemical protection glove with optimal grip properties
- very good mechanical abrasion resistance and good life-cycle thanks to multi-layered structure
- outstanding grip in wet and oily areas thanks to uvex Xtra Grip technology
- good resistance to grease, mineral oils and many chemicals
- very good dexterity
- ergonomic fit
- outstanding wearer comfort due to the high-quality cotton interlock liner supporting material
- extremely high flexibility

Areas of application:
- refining
- housekeeping (hosing) with chemicals present
- handling contaminated materials
- maintenance

| | uvex rubiflex S XG27B | uvex rubiflex S XG35B |
|---|---|---|
| **Part No.** | XG27B | XG35B |
| **Design** | gauntlet, approx. 27 cm | gauntlet, approx. 35 cm |
| **Standard** | EN 388 (3 1 2 1 X), EN ISO 374-1:2016/Type A (J K N O P T) | EN 388 (3 1 2 1 X), EN ISO 374-1:2016/Type A (J K N O P T) |
| **Material** | cotton interlock | cotton interlock |
| **Coating** | fully coated with special NBR coating (nitrile rubber) and XG Grip coating | fully coated with special NBR coating (nitrile rubber) and XG Grip coating |
| | approx. 0.40mm | approx. 0.40 mm |
| **Suitable for** | very good resistance to grease, mineral oils and many chemicals | very good resistance to grease, mineral oils and many chemicals |
| **Colour** | blue, black | blue, black |
| **Sizes** | 7 to 11 | 8 to 11 |

# Chemical Risks

## Safety gloves with cotton support: NBR coating

Reinforced construction ▶

EN ISO 374-1:2016/Type A

JKNOPT

EN 388:2016

2121X

NB40S

EN ISO 374-1:2016/Type B

JKOPT

EN 388:2016

2121X

NB60S NB60SZ

OEKO-TEX® CONFIDENCE IN TEXTILES STANDARD 100 SCI-0648 HOHENSTEIN HTTI

MADE IN GERMANY

## uvex rubiflex S

- NBR chemical protection glove with reinforced cotton interlock supporting material
- good mechanical abrasion resistance thanks to the NBR coating
- good resistance to many chemicals, acids, alkalis, mineral oils and solvents
- good dexterity
- ergonomic fit
- outstanding wearer comfort due to the high-quality cotton interlock supporting material
- highly flexible

Areas of application:
- petrochemical industry
- alumina refining
- battery manufacturing

## uvex rubiflex S (long version)

- long NBR chemical protection glove with reinforced cotton interlock supporting material
- additional elastic collar at gauntlet end (NB60SZ)
- good mechanical abrasion resistance thanks to the NBR coating
- good resistance to many chemicals, acids, alkalis, mineral oils and solvents
- good dexterity
- ergonomic fit
- outstanding wearer comfort due to the high-quality cotton interlock supporting material
- highly flexible

Areas of application:
- petrochemical industry
- alumina refining
- battery manufacturing

| | uvex rubiflex S NB40S |
|---|---|
| **Part No.** | NB40S |
| **Design** | gauntlet, approx. 40 cm |
| **Standard** | EN 388 (2 1 2 1 X) |
| | EN ISO 374-1:2016/Type A (J K N O P T) |
| **Material** | cotton interlock, reinforced |
| **Coating** | fully coated with special NBR coating (nitrile rubber), approx. 0.50 mm |
| **Suitable for** | very good resistance to grease, mineral oils and many chemicals |
| **Colour** | green |
| **Sizes** | 8 to 11 |

| uvex rubiflex S | NB60S | NB60SZ |
|---|---|---|
| **Part No.** | NB60S | NB60SZ |
| **Design** | gauntlet, approx. 60 cm | elastic collar at gauntlet end, approx. 60 cm |
| **Standard** | EN 388 (2 1 2 1 X) | EN 388 (2 1 2 1 X) |
| | EN ISO 374-1:2016/Type A (J K O P T) | |
| **Material** | cotton interlock, reinforced | cotton interlock, reinforced |
| **Coating** | fully coated with special NBR coating (nitrile rubber), approx. 0.50 mm | |
| **Suitable for** | very good resistance to grease, mineral oils and many chemicals | |
| **Colour** | green | green |
| **Sizes** | 9 to 11 | 9 to 11 |

uvex

# Chemical Risks

## Safety gloves with flocked cotton liner: NBR


60968

**EN ISO 374-1:2016/Type A**

AJKLMO

**EN 388:2016**

4121X

### uvex u-chem 3100

- supported nitrile chemical glove
- resistant to large range of alkalis and acids
- sand grip palm providing outstanding grip in wet & oily environments
- good dexterity
- excellent anatomical hand form for excellent comfort
- cotton flocked lined

Areas of application:
- water treatment
- janitorial/cleaning
- engineering/maintenance
- refining
- construction/trades

| | uvex u-chem 3100 |
|---|---|
| **Part No.** | 60968 |
| **Design** | gauntlet, palm with sand grip |
| **Standard** | EN 388 (4 1 2 1 X), EN ISO 374-1:2016/Type A (A J K L M O) |
| **Material** | seamless cotton |
| **Coating** | coated with NBR (nitrile rubber) |
| **Suitable for** | good resistance to oils, grease, acids and solvents |
| **Colour** | black |
| **Sizes** | 8 to 10 |