

**uvex**

Prescription  
Safety Eyewear  
2020



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**protecting people**

### Why we recommend eyewear safety glasses?

- uvex is the leading European company in the manufacture of protective equipment for eyes, hearing and legs
- has more than 90 years of experience
- offers innovative solutions
- has ISO, Ohris and REACH certificates

### Why do we recommend Alcom glass?

- We offer comprehensive protection for your eyes
- we have more than 25 years experience in the manufacture of glasses for glasses
- we are a Slovenian high-tech company
- we have an ISO certificate
- we are socially and environmentally responsible

### Alcom and uvex offer you together:

- individual glass, designed for you and your purpose
- certified and in accordance with all standards made glass and protective frames
- a large selection of protective frames
- certified glasses set (frame, glass, assembly, etui and cloth) according to EN 166, EN 167, EN 168, EN 169, EN 170, EN 172

### Alcom, in cooperation with uvex, optics, optometrists and ergonomists, offers:

- determining the requirements for the provision of vision at the workplace
- job counseling - ergonomics
- consulting in the choice of glasses and frames for glasses for employees in production, offices, warehouses, transport,
- on-site and in exceptional conditions (determination of diopter), measurement of individual

- parameters (median distance, mounting height, frame inclination, reading distance, working viewing distance, ...),
- octoustic examination - in the company or in partial optics glass production, framing and control of all parameters
- after making the glasses correctly adjust the frame for proper and comfortable use (nostrils, handles)
- informing the user about the proper use of glasses in relation to glass (single point, work, bifocal or progressive)
- informing the user about proper eyewear and any changes or repairs
- a guarantee for the quality of the service and the product

### Why are we the best?

- glass is manufactured using state-of-the-art CNC machines
- glass and frames have been tested at uvex Fürth, Germany
- each glass has a visible mark and traceability
- both companies have extensive experience in optical products
- our optics partners are fully qualified for refraction (diopter fixation) and visual control
- we offer a vast solution to the supply of vision, so employees, management, leaders and security engineers will be minimally affected in time for the entire supply of vision - Alcom provides everything

### Testing carried out on Alcom glasses in glasses uvex:

- test falling balls at a height of 1.3m
- missile test at a speed of 45m / s and 120m / s
- resistance to liquids and chemicals
- mechanical strength and extreme temperatures (+ 50 ° C and -5 ° C)

**ALCOM** is a Slovenian manufacturer of high-tech individual correction glasses. Vexx company licensed us to manufacture and sell goggles in the Adria region.

### Our Values:

As an excellent company, according to our customers' assessment, Alcom is committed to offering you the best. Quickly and at reasonable prices.

### We try to be:

#### Close to you

We offer an optimal solution when you provide us with the user's preferences.

#### Affordable

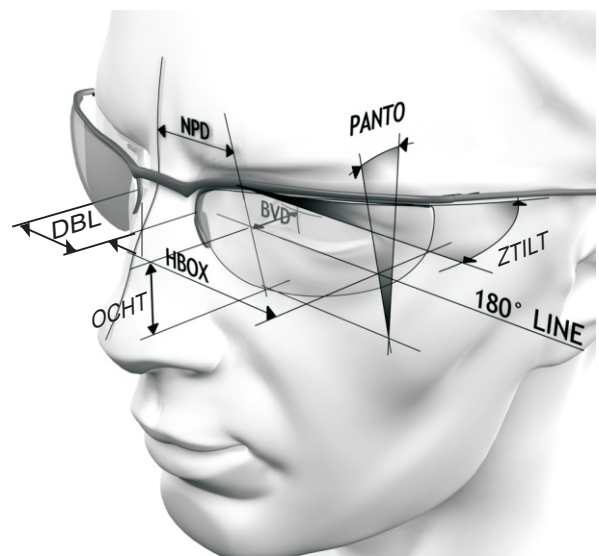
We are a direct supplier with our own production, without intermediaries and agents, therefore we provide you with favorable prices for excellent products and services.

#### Transparent

We are aware of the fact that what is in effect today will not be valid tomorrow. New technologies are full of new concepts, terms, and parameters, which can cause problems in understanding. We strive to provide you with clear and transparent technical information.

We know that only the best brands that build on quality,

professionalism and reliability remain on the market. We are motivated by motivated and trained professionals who constantly upgrade their knowledge and follow the development.



3D display of individual parameters

## uvex RX safety spectacles – licensing

### UVEX ARBEITSSCHUTZ GMBH

Würzburger Str. 181-189, 90766 Fürth, Germany

herewith grants the license to produce and distribute uvex branded RX safety spectacles in accordance with the provision of Directive 89/686/EWG, 21st December 1989 and the Standard of EN 166 „Personal eye-protection, Specifications" as well as to sell the completed products still bearing our trademark "UVEX" within the agreed territory

to

**Alcom d.o.o., Partizanska c.26, 4000 Kranj, Slovenia**

29/11/17 ppa  
Date, ppa. Dirk Breitenberger  
Director SBU-OH  
UVEX ARBEITSSCHUTZ GMBH  
Fürth, Germany

UVEX Arbeitsschutz GmbH  
SBU Occupational Health  
Siegelsdorfer Str. 1  
90768 Fürth  
Date, 29/11/2017 i.V. Ute Reichold

Date, i.V. Ute Reichold  
PGM SBU-OH RX Safety Eyewear  
International Business Development  
UVEX ARBEITSSCHUTZ GMBH  
Fürth, Germany

# SBU Occupational Health

Individual personal protective equipment (PPE)

Individual personal protective equipment (PPE) .  
More than just a standard solution .

The health of employees is of great importance for any company .  
uvex offers premium tailor made solutions for protecting eyes ,ears  
and feet ,offering maximum safety.

- Personal eye protection standards:
- EN 166 Personal eye protection
  - EN 167 Optical test methods
  - EN 168 Non-optical test methods
  - EN 169 Filters for welding and related
  - EN 170 Ultraviolet filters
  - EN 172 Sun glare filters for industrial use

Decades of experience and innovative technologies form the basis for products that are manufactured in our facilities  
in Germany in accordance with the most stringent safety standards .Our individual personal protective equipment  
ensures that maximum levels of safety and comfort are provided .

Innovations at uvex are more than just words: they are an essential part of an enterprise strategy. Many independent awards  
reaffirm our continued commitment to the future.

Investing in award-winning solutions, advanced materials and technologies, uvex enables us to market manufacturing solutions  
that are scientifically developed and not only provide safety and comfort, but with their features increase the level of fit and  
consequently user acceptance.

## uvex RX App

The virtual companion for prescription  
safety spectacles,

What are the advantages of the different lens types and  
coatings for innovative uvex prescription safety  
spectacles ? Find the optimum product to meet  
requirements quickly and easily using the practical uvex  
RX app .

For example ,test at the touch of a button the effect  
different filters have on the optical properties of spectacles .  
The app includes striking videos which show the impact  
tests conducted to determine the stability of lenses .  
Comprehensive product brochures  
can also be downloaded for detailed information .

■ **Realistic perspective**

- The uvex RX app provides a realistic  
experience of vision through varifocal  
lenses .



■ **Range of information**

- Which prescription safety spectacles  
are best for your requirements ?  
The uvex RX app offers comprehensive  
information ,from innovative product specifications  
to impact test videos .



[www.uvex-safety.com/uvex\\_app/uvex-rx](http://www.uvex-safety.com/uvex_app/uvex-rx)

**View everything**  
The uvex RX app  
makes product  
selection easier .

# Benefits of uvex RX Safety protective spectacles

1. Vision Impact Institute, Observatoire des enjeux de la vision, 147 rue de Paris, 94220 Charenton, France

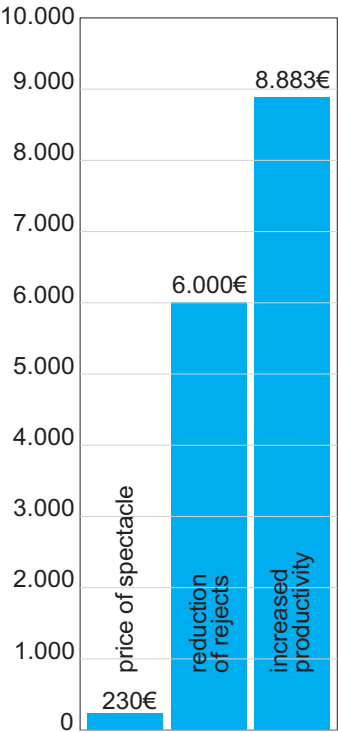
**“Uncorrected vision can decrease employee performance by as much as 20%!”**

Net value added per employee in Slovenia in 2018: EUR 44,415 (source: Ajpes)  
Eyeglass lifetime: 2 - 3 years.  
Price for glasses 120 to 340 €.  
Increasing employee performance by only 10% = € 8,883 over two years, more than 38 times the average value of glasses € 230

2. The use of safety goggles in visual ergonomics, Zvone Balantič, Dejan Aljancic, Ventil Magazine 4, 2018

Prescription goggles reduce distracting light reflectance by 9 times compared to the combination of normal goggles and regular eyewear

Example: An employee makes € 100,000 worth of products a year. If the rejects are reduced by 3% because of better vision, the value of rejects is reduced by 6,000 € in two years, which is more than 26 times the value of glasses



Strong light reflections by safety glasses in combination with corrective glasses with hard-coat



uvex Safety RX: due to anti-reflective coatings the reflections of light are completely undisturbing

# Prescription safety spectacles

Basic collection plastic frames



5503 1300 50/17  
5503 1300 54/17



5503 7415 54/17

## uvex 5503

- plastic frames with classic lens shape
- transparent side shields with integrated brow guard
- good fit with anatomically shaped nose bridge

|                      |                 |                               |                 |
|----------------------|-----------------|-------------------------------|-----------------|
| <b>Art. no.</b>      | 6109.219        | 6109.204                      | 6109.203        |
| <b>Ref. no.</b>      | 5503 1300 50/17 | 5503 7415 54/17               | 5503 1300 54/17 |
| <b>Lens diameter</b> | 50 mm           | 54 mm                         | 54 mm           |
| <b>Bridge width</b>  | 17 mm           | 17 mm                         | 17 mm           |
| <b>Colour</b>        | anthracite      | green, grey                   | anthracite      |
| <b>Extras</b>        |                 | metal arms with sprung hinges |                 |



5502 1725 56/15

## uvex 5502

- close fitting plastic frames
- side shields and integrated brow guard frame design
- specially shaped frames provide protection against particles from below
- good fit with anatomically shaped nose bridge
- individually adjustable side arms with four different lengths and adjustable soft-form comfort ear piece

|                      |                 |
|----------------------|-----------------|
| <b>Art. no.</b>      | 6108.215        |
| <b>Ref. no.</b>      | 5502 1725 56/15 |
| <b>Lens diameter</b> | 56 mm           |
| <b>Bridge width</b>  | 15 mm           |
| <b>Colour</b>        | grey            |



5511 1500 49/20

## uvex 5511

- Kevlar round frame with metal arms
- transparent side shields
- good fit with anatomically shaped nose bridge and easily adjustable earpieces

|                      |                 |
|----------------------|-----------------|
| <b>Art. no.</b>      | 6108.217        |
| <b>Ref. no.</b>      | 5511 1500 49/20 |
| <b>Lens diameter</b> | 49 mm           |
| <b>Bridge width</b>  | 20 mm           |
| <b>Colour</b>        | grey            |
| <b>Extras</b>        | metal arms      |

# Prescription safety spectacles

uvex RX ti

## Titanium frames

Titanium is a high-quality material used exclusively in the aerospace industry and medical technology. Titanium has been used in prescription frames since 1983.

Titanium is corrosion-resistant and does not provoke allergic reactions. With a specific density of 4.5 g/cm<sup>3</sup>, titanium is approximately half the weight of stainless steel.

- Extremely stable
- Low weight
- Allergy neutral
- Suitable for cold forming



5900 1600 49/20

## uvex RX ti 5900

- titanium frame with oval shaped lenses
- transparent side shields
- frame is lightweight, allergy neutral and corrosion-resistant
- anatomically adjustable ,soft nose pads and easily adjustable earpieces for exceptional fit

|               |                 |
|---------------|-----------------|
| Art. no.      | 6109.400        |
| Ref. no.      | 5900 1600 49/20 |
| Lens diameter | 49 mm           |
| Bridge width  | 20 mm           |
| Colour        | titanium blue   |



5901 1600 50/20

## uvex RX ti 5901

- classic design titanium frame
- transparent side shields
- frame is lightweight, allergy neutral and corrosion-resistant
- anatomically adjustable ,soft nose pads and easily adjustable earpieces for exceptional fit

|               |                 |
|---------------|-----------------|
| Art. no.      | 6109.401        |
| Ref. no.      | 5901 1600 50/20 |
| Lens diameter | 50 mm           |
| Bridge width  | 20 mm           |
| Colour        | titanium blue   |



5902 1600 52/19

## uvex RX ti 5902

- thin lightweight titanium frame
- transparent side shields
- light ,hypoallergenic pure titanium nose bridge and flexible arms
- made of beta-titanium
- anatomically adjustable ,soft nose pads and easily adjustable earpieces for exceptional fit

|               |                 |
|---------------|-----------------|
| Art. no.      | 6109.402        |
| Ref. no.      | 5902 1600 52/19 |
| Lens diameter | 52 mm           |
| Bridge width  | 19 mm           |
| Colour        | titanium blue   |

# Prescription safety spectacles

Basic collection metal frames



5101 1018 56x17

## uvex 5101

- classic design metal frame with double bridge
- side shields made of wire mesh for good air circulation
- anatomically adjustable ,soft nose pads and easily adjustable earpieces deliver exceptional fit
- arms with sprung hinges and easily adjustable earpieces

|                      |                 |
|----------------------|-----------------|
| <b>Art. no.</b>      | 6109.103        |
| <b>Ref. no.</b>      | 5101 1018 56/17 |
| <b>Lens diameter</b> | 56 mm           |
| <b>Bridge width</b>  | 17 mm           |
| <b>Colour</b>        | black, silver   |



5103 1400 53/17  
5103 1400 53/17

## uvex 5103

- classic design metal frame with double bridge
- transparent side shields
- anatomically adjustable ,soft nose pads and easily adjustable earpieces deliver exceptional fit

|                      |                 |                 |
|----------------------|-----------------|-----------------|
| <b>Art. no.</b>      | 6109.104        | 6109.105        |
| <b>Ref. no.</b>      | 5103 1400 53/17 | 5103 1400 55/17 |
| <b>Lens diameter</b> | 53 mm           | 55 mm           |
| <b>Bridge width</b>  | 17 mm           | 17 mm           |
| <b>Colour</b>        | gunmetal, matt  | gunmetal, matt  |



5104 6054 56x21

## uvex 5104

- large metal frame design with double bridge
- transparent side shields
- anatomically adjustable ,soft nose pads and easily adjustable earpieces deliver exceptional fit

|                      |                 |
|----------------------|-----------------|
| <b>Art. no.</b>      | 6109.106        |
| <b>Ref. no.</b>      | 5104 6054 56/21 |
| <b>Lens diameter</b> | 56 mm           |
| <b>Bridge width</b>  | 21 mm           |
| <b>Colour</b>        | gold, havanna   |

# Prescription safety spectacles

Basic collection metal frames



5106 1400 50/20

## uvex 5106

- classic design metal frame
- transparent side shields
- anatomically adjustable nose bridge and easily adjustable earpieces delivers exceptional fit

|                      |                 |                 |
|----------------------|-----------------|-----------------|
| <b>Art. no.</b>      | 6109.108        | 6109.109        |
| <b>Ref. no.</b>      | 5106 1400 50/20 | 5106 1400 52/20 |
| <b>Lens diameter</b> | 50 mm           | 52 mm           |
| <b>Bridge width</b>  | 20 mm           | 20 mm           |
| <b>Colour</b>        | gunmetal, matt  | gunmetal, matt  |



5107 6200 49/20  
5107 6200 47/20

## uvex 5107

- metal frame with oval shaped lenses
- transparent side shield
- anatomically adjustable nose bridge and easily adjustable earpieces delivers exceptional fit

|                      |                 |                 |
|----------------------|-----------------|-----------------|
| <b>Art. no.</b>      | 6109.110        | 6109.111        |
| <b>Ref. no.</b>      | 5107 6200 47/20 | 5107 6200 49/20 |
| <b>Lens diameter</b> | 47 mm           | 49 mm           |
| <b>Bridge width</b>  | 20 mm           | 20 mm           |
| <b>Colour</b>        | antique gold    | antique gold    |



5108 3400 54/19

## uvex 5108

- slim ,expressive metal frame
- transparent side shields
- very good fit with anatomically adjustable nose bridge and easily adjustable earpieces

|                      |                 |                 |
|----------------------|-----------------|-----------------|
| <b>Art. no.</b>      | 6109.112        | 6109.113        |
| <b>Ref. no.</b>      | 5108 3400 54/19 | 5108 3400 56/19 |
| <b>Lens diameter</b> | 54 mm           | 56 mm           |
| <b>Bridge width</b>  | 19 mm           | 19 mm           |
| <b>Colour</b>        | steel blue      | steel blue      |

# VDU - Spectacles for computer work

VDU - Visual Display Unit



3107 1000 55/17

|                      |                 |
|----------------------|-----------------|
|                      | uvex 3107       |
| <b>Art. no.</b>      | 6110.033        |
| <b>Ref. no.</b>      | 3107 1000 55/17 |
| <b>Lens diameter</b> | 55 mm           |
| <b>Bridge width</b>  | 17 mm           |
| <b>Colour</b>        | black           |



3116 5500 53/17

|                      |                 |
|----------------------|-----------------|
|                      | uvex 3116       |
| <b>Art. no.</b>      | 6110.054        |
| <b>Ref. no.</b>      | 3116 5500 53/17 |
| <b>Lens diameter</b> | 53 mm           |
| <b>Bridge width</b>  | 17 mm           |
| <b>Colour</b>        | brown           |



3112 1233 54/17

|                      |                 |
|----------------------|-----------------|
|                      | uvex 3112       |
| <b>Art. no.</b>      | 6110.050        |
| <b>Ref. no.</b>      | 3112 1233 54/17 |
| <b>Lens diameter</b> | 54 mm           |
| <b>Bridge width</b>  | 17 mm           |
| <b>Colour</b>        | black, blue     |



3117 1590 48/20

|                      |                 |
|----------------------|-----------------|
|                      | uvex 3117       |
| <b>Art. no.</b>      | 6110.055        |
| <b>Ref. no.</b>      | 3117 1590 48/20 |
| <b>Lens diameter</b> | 48 mm           |
| <b>Bridge width</b>  | 20 mm           |
| <b>Colour</b>        | gray, vintage   |



3114 1000 52/16

|                      |                 |
|----------------------|-----------------|
|                      | uvex 3114       |
| <b>Art. no.</b>      | 6110.052        |
| <b>Ref. no.</b>      | 3114 1000 52/16 |
| <b>Lens diameter</b> | 52 mm           |
| <b>Bridge width</b>  | 16 mm           |
| <b>Colour</b>        | black           |



3118 7190 55/17

|                      |                 |
|----------------------|-----------------|
|                      | uvex 3118       |
| <b>Art. no.</b>      | 6110.056        |
| <b>Ref. no.</b>      | 3118 7190 55/17 |
| <b>Lens diameter</b> | 55 mm           |
| <b>Bridge width</b>  | 17 mm           |
| <b>Colour</b>        | petrol, vintage |

Description of VDU on page 21

# VDU Spectacles for computer work

VDU - Visual Display Unit



3108 1400 54/18

|                      |                 |
|----------------------|-----------------|
|                      | uvex 3108       |
| <b>Art. no.</b>      | 6110.034        |
| <b>Ref. no.</b>      | 3108 1400 54/18 |
| <b>Lens diameter</b> | 54 mm           |
| <b>Bridge width</b>  | 18 mm           |
| <b>Colour</b>        | gun             |



3508 1000 54/18

|                      |                 |
|----------------------|-----------------|
|                      | uvex 3508       |
| <b>Art. no.</b>      | 6110.039        |
| <b>Ref. no.</b>      | 3508 1000 54/18 |
| <b>Lens diameter</b> | 54 mm           |
| <b>Bridge width</b>  | 18 mm           |
| <b>Colour</b>        | black           |



3510 1025 52/17

|                      |                    |
|----------------------|--------------------|
|                      | uvex 3510          |
| <b>Art. no.</b>      | 6110.046           |
| <b>Ref. no.</b>      | 3510 1025 52/17    |
| <b>Lens diameter</b> | 52 mm              |
| <b>Bridge width</b>  | 17mm               |
| <b>Colour</b>        | black, transparent |



3512 1341 52/18

|                      |                 |
|----------------------|-----------------|
|                      | uvex 3512       |
| <b>Art. no.</b>      | 6110.048        |
| <b>Ref. no.</b>      | 3512 1341 52/18 |
| <b>Lens diameter</b> | 52 mm           |
| <b>Bridge width</b>  | 18 mm           |
| <b>Colour</b>        | anthracite, red |



3514 5441 49/19

|                      |                 |
|----------------------|-----------------|
|                      | uvex 3514       |
| <b>Art. no.</b>      | 6110.060        |
| <b>Ref. no.</b>      | 3514 5441 49/19 |
| <b>Lens diameter</b> | 49 mm           |
| <b>Bridge width</b>  | 19 mm           |
| <b>Colour</b>        | havanna, red    |



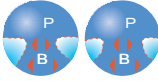


3515 5426 55x18

|                      |                 |
|----------------------|-----------------|
|                      | uvex 3515       |
| <b>Art. no.</b>      | 6110.061        |
| <b>Ref. no.</b>      | 3515 5426 55/18 |
| <b>Lens diameter</b> | 55 mm           |
| <b>Bridge width</b>  | 18 mm           |
| <b>Colour</b>        | havanna, matt   |

Description of VDU on page 21

# Prescription safety spectacles

Lens options for plastic, metal, titan and VDU uvex frames

| Focus type  | Lens type   | Parameter for centering of the lenses  |
|---|---|--|
| Description   |   | Specific height<br>Box measure   |
| <b>Single vision</b>  |   |  |
| Correction of visual defect in far ,<br>in between or near distance   |    | Single vision ,Single vision HD  |
| <b>Certified prescription range</b>   |   |  |
| <b>Comfort lenses</b>   |   |  |
| <b>Nahkomfort</b><br>– Version with expanded near vision<br>– Ideal for workplace environments of 30 cm to approx. 2 m  |    | <b>Nahkomfort Standard (Acc),<br/>Nahkomfort Optima (Rdr degression)</b><br>Versions see page 30   |
| <b>Distanzkomfort</b><br>– Calculation of the individual correction for defined distances (1m, 2m or 4m)  |   | <b>Distanzkomfort Optima (Rdr distance)</b>  |
| <b>Single vision Relax</b><br>– To accommodate the prescription for the lower part of the lens ,the prescription is increased by + 0 of 5 dioptr  |  | <b>Single vision Relax (Ac2)</b>   |
| <b>Certified prescription range</b>   |   |  |
| <b>Bifocals</b>   |   |  |
| – Correction of visual defect in far and reading distance<br>– Visible segment for near distance<br>– Steplike change from far distance to near distance at the edge of segment<br>– Instantly well tolerated ,visible edge of segment supports orientation |  | Width of segment : 22mm ,curved  |
| <b>Certified prescription range</b>   |   |  |
| <b>Progressives, Varifocals</b>   |   |  |
| – Correction of visual defect in far ,in between and near distance<br>– Gliding change from far distance to near distance (progressive canal)<br>– The non visible gliding zone corrects in between distances   |  | <b>Varifocal Standard (Mag G)</b><br>– Standard area for far distance and near distance<br>– Long ,narrow canal of progression             |
|   |  | <b>Varifocal Pro Work (Mag A)</b><br>– Large area for far distance<br>– Wide canal of progression<br>– Optimized area for reading distance |
|   |  | <b>Varifocal Optima (Mag A VIP)</b><br>- Individual adjusted multifocal lens of latest generation<br>- Wide field of view for any distance |
| <b>Certified prescription range</b>   |   |  |

The table shows the largest range of diopeters that are approved and certified.  
There are possible limits, depending on the size of the frame and the glass material.

|  | Materials                             |   |   |                                       |                                       |                                      | Additional treatments   |  |                    |                           |                                       |
|--|---------------------------------------|---|---|---------------------------------------|---------------------------------------|--------------------------------------|-------------------------|--|--------------------|---------------------------|---------------------------------------|
|  | CR39 1.50                             | Organic glass   |   |                                       | Mineral<br>Hardglass<br>1.52          | Opal                                 | Ultra                   | Color  | UV blue<br>protect | Variomatic brown          |                                       |
|  |                                       | HI 1.6  | HI 1.67   | PC 1.59                               | Trivex 1.53                           |                                      |                         |  |                    |                           |                                       |
|  | ✓                                     | ✓   | ✓   | ✓                                     | ✓                                     | HD not avail.                        | ✓                       | ✓  | ✓                  | ✓                         |                                       |
|  |                                       | incl. hard coat<br>only Ultra/UV<br>Recommended<br>from +/- 4,0 D | incl. hard coat<br>only Ultra/UV<br>Recommended<br>from +/- 6,0 D | incl. hard coat                       | incl. hard coat<br>only Ultra/UV      |                                      | samo<br>eno-<br>žarišč. | only<br>single-<br>vision.<br><br>not for<br>Mineral | ✓                  | not for<br>Mineral        | Only<br>Poly<br>or<br>Trivex          |
|  | +10,0 to -10,0<br>cyl ±8,00           | +12,0 to -13,0<br>cyl ±8,00                                       | +13,0 to -14,5<br>cyl ±8,00                                       | +9,5 to -12,0<br>cyl ±8,00            | +8,0 to -11,0<br>cyl ±7,00            | +7,0 to -6,0<br>cyl ±4,00            |                         |  |                    | +7,5 to -8,5<br>cyl ±6,00 |                                       |
|  | Standard /<br>Optima                  | Optima<br>only  | Optima<br>only  | Optima<br>only                        | Optima<br>only                        |                                      | ✓                       | not for<br>Mineral                                   | ✓                  | ✓                         | Trivex<br>only                        |
|  | ✓                                     | ✓   | ✓   | ✓                                     | ✓                                     |                                      | ✓                       | not for<br>Mineral                                   | ✓                  | ✓                         | Trivex<br>only                        |
|  | ✓                                     | ✓   | ✓   | ✓                                     | ✓                                     |                                      | ✓                       | not for<br>Mineral                                   | ✓                  | ✓                         | Trivex<br>only                        |
|  | +9,0 to -7,5<br>cyl ±6,00             | +8,0 to -8,0<br>cyl ±6,00   | +9,0 to -10,0<br>cyl ±6,00  | +9,0 to -4,5,0<br>cyl ±6,00           | +7,0 to -6,0<br>cyl ±4,00             |                                      |                         |  |                    |                           |                                       |
|  | ✓                                     | ✓   |   | ✓                                     |                                       | ✓                                    | ✓                       | not for<br>Mineral                                   | ✓                  | ✓                         |                                       |
|  | +7,0 to -8,0<br>cyl ±6,00<br>add 3,0  | +8,5 to -10,5<br>cyl ±8,00<br>add 3,0                             |   | +10, to -10,0<br>cyl ±6,00<br>add 3,0 |                                       | +6,0 to -6,0<br>cyl ±4,00<br>add 3,0 |                         |  |                    |                           |                                       |
|  | ✓                                     | ✓   | ✓   | ✓                                     | ✓                                     | ✓                                    | ✓                       | not for<br>Mineral                                   | ✓                  | ✓                         | Trivex<br>only                        |
|  | ✓                                     | ✓   | ✓   | ✓                                     | ✓                                     | ✓                                    | ✓                       | not for<br>Mineral                                   | ✓                  | ✓                         | Trivex<br>only                        |
|  | ✓                                     | ✓   | ✓   | ✓                                     | ✓                                     |                                      | ✓                       | not for<br>Mineral                                   | ✓                  | ✓                         | Trivex<br>only                        |
|  | +6,0 to -10,0<br>cyl ±6,00<br>add 3,0 | +9,5 to -12,0<br>cyl ±6,00<br>add 3,0                             | +10,0 to -12,0<br>cyl ±6,00<br>add 3,0                            | +9,5 to -10,0<br>cyl ±6,00<br>add 3,0 | +6,0 to -13,0<br>cyl ±6,00<br>add 3,0 | +6,0 to -6,0<br>cyl ±4,00<br>add 3,0 |                         |  |                    |                           | +7,5 to -10,0<br>cyl ±6,00<br>add 3,0 |

# Prescription safety spectacles

Collection of special frames RX cd



5505 2900 55/19  
5505 2900 57/19



5505 2126 55/19  
5505 2126 57/19

## uvex cd 5505

- close fitting plastic frames
- integrated side shields and brow guard for an exceptionally close fit
- specially shaped frames provide protection against particles from below
- good fit with anatomically shaped nose bridge
- individually adjustable side arm length and angle for a customised fit and adjustable

|                      |                 |                 |                 |                 |
|----------------------|-----------------|-----------------|-----------------|-----------------|
| <b>Art. no.</b>      | 6109.208        | 6109.209        | 6109.214        | 6109.215        |
| <b>Ref. no.</b>      | 5505 2900 55/19 | 5505 2900 57/19 | 5505 2126 55/19 | 5505 2126 57/19 |
| <b>Lens diameter</b> | 55 mm           | 57 mm           | 55 mm           | 57 mm           |
| <b>Bridge width</b>  | 19 mm           | 19 mm           | 19 mm           | 19 mm           |
| <b>Colour</b>        | transparent     | transparent     | crystal, matt   | crystal, matt   |



5505 seal 55/19



5505 2126 55/19



5505 2900 57/19

## uvex cd 5505 seal

- foam seal frame for uvex RX 5505 for use when working with dust, chips or fluids
- complies with EN 166 "Protection against liquid droplets and splashes" (category "3")

|                        |                      |                      |
|------------------------|----------------------|----------------------|
| <b>Art. no.</b>        | 6118.000             | 6118.001             |
| <b>Ref. no.</b>        | 5505 seal 55/19      | 5505 seal 57/19      |
| <b>Lens diameter</b>   | 55 mm                | 57 mm                |
| <b>Bridge width</b>    | 19 mm                | 19 mm                |
| <b>Colour</b>          | black                | black                |
| <b>Compatible with</b> | 6109.208<br>6109.214 | 6109.209<br>6109.215 |

## uvex cd 5505 flip-up, welding

- close fitting wraparound plastic frames
- new filter technology with grey tinted lenses provides reliable protection against UV and infrared radiation as well as ensuring perfect colour recognition
- side shields and integrated brow guard for an exceptionally close fit
- solid coloured frame and side shields
- flip-up welding lenses with level 5 certified welding protection
- good fit with anatomically shaped nose bridge
- individually adjustable side arm length and angle for a customised fit and adjustable soft - form comfort ear pieces
- areas of application :welding



5505 9905 55/19

|                      |   |
|----------------------|---|
| <b>Art. no.</b>      | 6109.218  |
| <b>Ref. no.</b>      | 5505 9905 55/19                                     |
| <b>Lens diameter</b> | 55 mm   |
| <b>Bridge width</b>  | 19 mm   |
| <b>Colour</b>        | black, green  |
| <b>Flip up lens</b>  | PC grey, welding protection 5<br>uvex infradur plus |
| <b>Marking</b>       | 5 W1 FTK CE   |

# Prescription safety spectacles

Collection of special frames RX cd



5505 9910 57/19

## uvex RX cd 5505 flip-up, didymium

- flip-up incl. non-prescription didymium lenses
- didymium lenses are special filters with a high absorption rate of 589 nm
- they filter bright yellow sodium flare
- lightweight polycarbonate filter with high mechanical strength
- level of protection 2-2 in accordance with EN 170, mech. strength F
- in accordance with EN 166
- Note: Didymium lenses do not provide increased protection against infrared radiation (IR)

|                       |                     |
|-----------------------|---------------------|
| <b>Art. no.</b>       | 6109.238            |
| <b>Ref. no.</b>       | 5505 9910 57/19     |
| <b>Lens size</b>      | 57 mm               |
| <b>Bridge size</b>    | 19 mm               |
| <b>Colour</b>         | crystal matt, green |
| <b>Flip up lenses</b> | violet PC, didymium |
| <b>Lens marking</b>   | 2-2 W 1 F CE        |



5505 9965 55/19  
5505 9965 57/19

## uvex RX cd 5505 flip-up, CBR65

- flip-up incl. non-prescription CBR65 lenses
- high-contrast, fatigue-free vision
- in workplaces with extremely harsh lighting conditions, blue light is reduced by up to 50%
- slight tint for LED lights, computers and other visual display screens that produce bright, harsh unnatural light with high blue content, or for those working outdoors

|                       |                     |                     |
|-----------------------|---------------------|---------------------|
| <b>Art. no.</b>       | 6109.243            | 6109.244            |
| <b>Ref. no.</b>       | 5505 9965 55/19     | 5505 9965 57/19     |
| <b>Lens size</b>      | 55 mm               | 57 mm               |
| <b>Bridge size</b>    | 19 mm               | 19 mm               |
| <b>Colour</b>         | crystal matt, green | crystal matt, green |
| <b>Flip up lenses</b> | PC CBR65            | PC CBR65            |
| <b>Lens marking</b>   | 5-1.4 W 1 FK CE     | 5-1.4 W 1 FK CE     |



5505 9911 55/19  
5505 9911 57/19

## uvex RX cd 5505 flip-up, polarising filter

- flip-up incl. non-prescription lenses with polarising filter
- polarising filters only let in radiation from one vibration direction
- scattered radiation (e.g. reflection on the surface of water) is suppressed
- particularly suitable for workplaces with a high risk of glare (e.g. offshore, maritime environment, construction industry) and/or highly reflective surfaces
- level of protection 5-3,1 in accordance with EN 172, mech. strength F in accordance with EN 166

|                       |                     |                     |
|-----------------------|---------------------|---------------------|
| <b>Art. no.</b>       | 6109.239            | 6109.240            |
| <b>Ref. no.</b>       | 5505 9911 55/19     | 5505 9911 57/19     |
| <b>Lens size</b>      | 55 mm               | 57 mm               |
| <b>Bridge size</b>    | 19 mm               | 19 mm               |
| <b>Colour</b>         | crystal matt, green | crystal matt, green |
| <b>Flip up lenses</b> | grey PC, polarising | grey PC, polarising |
| <b>Lens marking</b>   | 5-3.1 W 1 F CE      | 5-3.1 W 1 F CE      |

# Prescription safety spectacles

Collection of special frames RX cd



5520 1333 54/18



5520 1344 54/18

## uvex RX cd 5520

- contemporary plastic frame in stylish colours
- good fit thanks to anatomically shaped nose bridge
- translucent lens frame for an unobstructed field of view
- uvex Comfort Sliders allow the side arm length and inclination to be adjusted for a customised fit
- the spectacles can also be worn without uvex Comfort Sliders
- completely metal-free

|           |                 |                 |
|-----------|-----------------|-----------------|
| Art. no.  | 6109.236        | 6109.245        |
| Ref. no.  | 5520 1333 54/18 | 5520 1344 54/18 |
| Lens size | 54 mm           | 54 mm           |
| Bridge    | 18 mm           | 18 mm           |
| Colour    | anthracit, blue | anthracit, rose |

## . uvex LED mini light

LED mini light - ready for any situation!

- Strong, adjustable LED light ensures optimal vision also by low light conditions.
- It can be attached on side arms of models RX cd 5520
- adapters for left and right side arms included
- compatible with models RX cd 5520
- article no. 9999.100
- set consists of one light with batteries and adapters for left and right side arms
- unit: 1 set



adapters for left and right side-arm



5520 1333 54/18

uvex LED mini light je kompatibilna z obema modeloma RX cd 5520.  
Na sliki je prikazana na očalih s stekli brez dioptrije.

## uvex Comfort Slider

Stepless set sliders for setting the side-arms length and frame inclination

- no metal parts
- compatible with models RX cd 5520
- art. no.: 9958.024
- unit: 5 pairs



## uvex x-fi t pro headband

Stepless set head band holds safety spectacles on head, also by tasks where the head is in position, when regular spectacles wouldn't stay on place.

- no metal parts
- compatible with models RX cd 5520
- width 10mm
- art. no.: 9958.023
- unit: 5 pieces



# Prescription safety spectacles

Collection of special frames RX cd



5514 1045 55/18



5514 1033 53/18

## uvex RX cd 5514

- close fitting plastic frame
- transparent side shields and integrated brow guard frame design
- soft ,adjustable nose bridge
- easily adjustable soft form comfort ear pieces

|                      |                 |                 |
|----------------------|-----------------|-----------------|
| <b>Art. no.</b>      | 6109.225        | 6109.226        |
| <b>Ref. no.</b>      | 5514 1033 53/18 | 5514 1045 55/18 |
| <b>Lens diameter</b> | 53 mm           | 55 mm           |
| <b>Bridge width</b>  | 18mm            | 18mm            |
| <b>Colour</b>        | black, blue     | black, red      |



5518 1333 54/22



5518 1341 54x22



5518 5074 54/22

## uvex RX cd 5518

- sporty frame design :attractive and durable
- metal free
- comfortable soft arms (uvex duo component technology ) nprn slip fit without pressure points
- good fit thanks to anatomically shaped nose bridge

|                      |                 |                   |                  |
|----------------------|-----------------|-------------------|------------------|
| <b>Art. no.</b>      | 6109.230        | 6109.231          | 6109.234         |
| <b>Ref. no.</b>      | 5518 1341 54/22 | 5518 5074 54/22   | 5518 1333 54/22  |
| <b>Lens diameter</b> | 54 mm           | 54 mm             | 54 mm            |
| <b>Bridge width</b>  | 22 mm           | 22 mm             | 22 mm            |
| <b>Colour</b>        | anthracite, red | dark brown, green | anthracite, blue |

# Prescription safety spectacles

## Collection of special frames RX cb

Thanks to the special shape and overall width of the uvex RX cb frames, they are ideal for individuals with a flat nose bridge, high cheekbones and/or wide temples. The soft-form comfort ear pieces adjust to the wearer to ensure a non-slip fit.

uvex RX cb frames fulfil the requirements regarding field of vision (7.1.1) and side protection (7.2.8) in accordance with EN 166:2002 based on Asian headform 2M, as defined in DIS ISO 18526-4:2018.



5580 3015 57x14

### uvex RX cb 5580

- wide fitting plastic frame for the best fit
- frame design with side shields and integrated brow guard
- easily adjustable, soft-form ear pieces for extra comfort
- ideal for individuals with a flat nose bridge, high cheekbones and/or wide temples.
- tested for use with Asian headform 2M, DIS ISO 18526-4:2018

|                  |                 |
|------------------|-----------------|
| <b>Art. no.</b>  | 6109.232        |
| <b>Ref. no.</b>  | 5580 3015 57/14 |
| <b>Lens size</b> | 57 mm           |
| <b>Bridge</b>    | 14 mm           |
| <b>Colour</b>    | dark blue, gray |



5581 1542 58x14

### uvex RX cb 5581

- plastic frame with extra wide temple width
- frame design with side shields and integrated brow guard
- easily adjustable, soft-form ear pieces for extra comfort
- ideal for individuals with a flat nose bridge, high cheekbones and/or wide temples
- tested for use with Asian headform 2M, DIS ISO 18526-4:2018










|                  |                 |
|------------------|-----------------|
| <b>Art. no.</b>  | 6109.233        |
| <b>Ref. no.</b>  | 5581 1542 58/14 |
| <b>Lens size</b> | 58 mm           |
| <b>Bridge</b>    | 14 mm           |
| <b>Colour</b>    | grey, dark red  |



# Prescription safety spectacles

Lens options for uvex RX cd and RX cb



|   |   | Lens type   | Parameter for centering of  |
|---|---|---|---|
| Description   |   |   | Specific height   |
| <b>Single vision</b>  |   |   |   |
|    | Correction of visual defect in far ,<br>in between or near distance   | <b>Single vision ,Single vision HD</b>  |   |
| Certified prescription range  |   |   |   |
| <b>Comfort lenses</b>   |   |   |   |
|  |    |  |  |
| <b>Nahcomfort Standard (Acc)</b>  | <b>Nahcomfort Optima (Rdr degr.)</b>  | <b>Distanzcomf. Optima (Rdr dist.)</b>  | <b>Single vision Relax (Ac2)</b>  |
|   |   | <b>Nahcomfort Standard, Nahcomfort Optima</b><br>Versions see page 30               | min. 18 mm  |
|   |   | <b>Distanzcomf Optima</b>   | min. 18 mm  |
|   |   | <b>Single vision Relax</b>  | min. 18 mm  |
| Certified prescription range  |   |   |   |
| <b>Bifocals</b>   |   |   |   |
|  | <ul style="list-style-type: none"> <li>- Correction of visual defect in far and reading distance</li> <li>- Visible segment for near distance</li> <li>- Steplike change from far distance to near distance at the edge of segment</li> <li>- Instantly well tolerated ,visible edge of segment supports orientation</li> </ul> | Width of segment: 28 mm, curved   |   |
| Certified prescription range  |   |   |   |
| <b>Varifocals</b>   |   |   |   |
|  |    |  |   |
| <b>Progressive Standard (Mag G)</b>   | <b>Progressive Pro Work (Mag A)</b>   | <b>Progressive Optima (Mag A VIP)</b>   |   |
|   |   | <b>Varifocal Standard</b>   | min. 18 mm  |
|   |   | <b>Varifocal Pro Work</b>   | 14 - 18 mm  |
|   |   | <b>Varifocal Optima</b>   | 14 - 18 mm  |
| Certified prescription range  |   |   |   |



uvex RX cd 5518



uvex RX cd 5505 flip-up

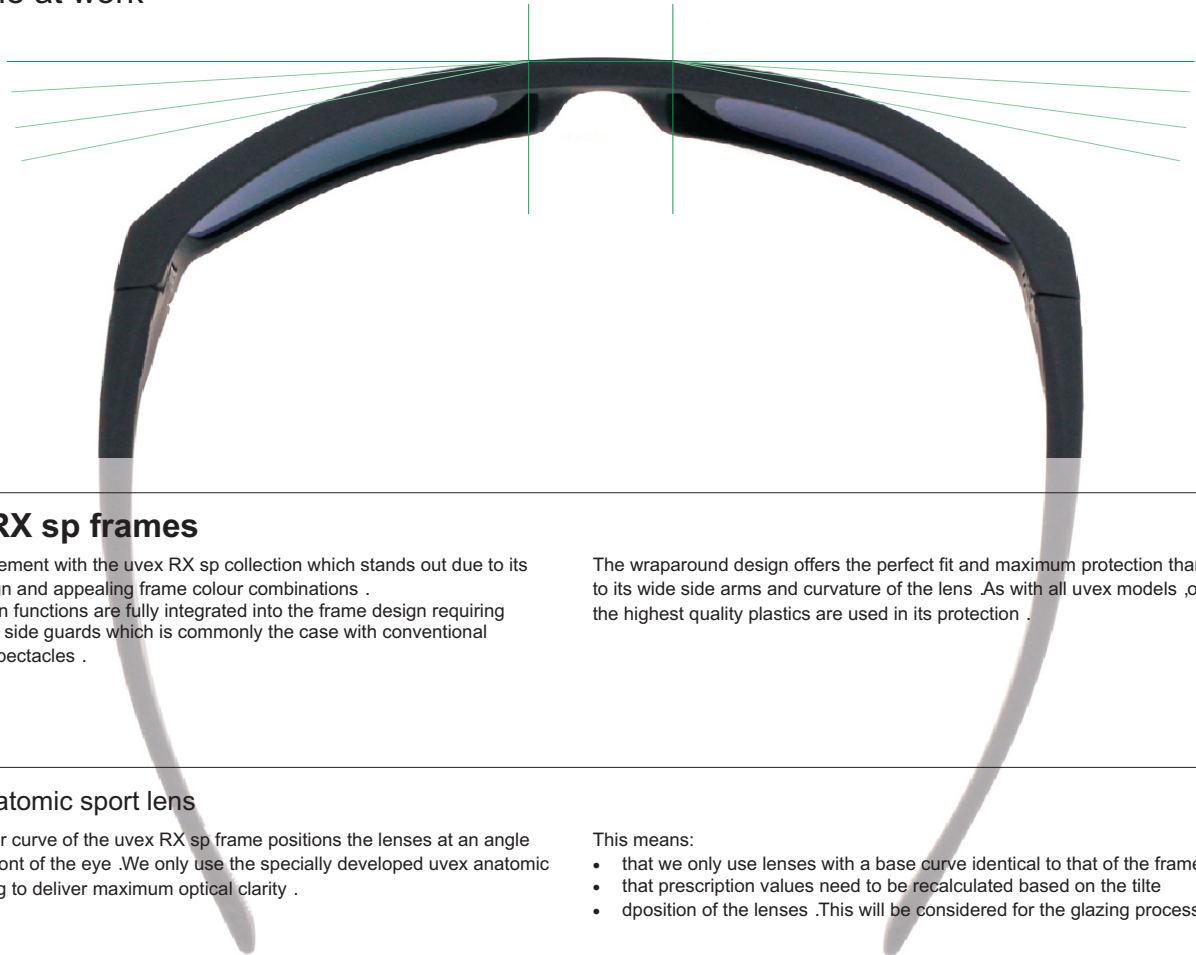


uvex RX cb 5580

| the lenses             | Material                               |  |                        |  |   | Additional treatments |       |                 |        |                        |
|------------------------|--|--|------------------------|--|---|-----------------------|-------|-----------------|--------|------------------------|
|                        | Organic glass                          |  |                        |  |   | Opal                  | Ultra | UV Blue protect | Colour | Variomatic brown       |
| CR39 1.50              | HI 1.6                                 | HI 1.67                                | PC 1.59                | Trivex 1.53                            |   |                       |       |                 |        |                        |
| ✓                      | ✓                                      | ✓                                      | ✓                      | ✓                                      | ✓ | ✓                     | ✓     | ✓               | ✓      | ✓                      |
|                        | hard coat incl. only Ultra or Ultra UV | hard coat incl. only Ultra or Ultra UV | hard coat incl.        | hard coat incl. only Ultra or Ultra UV |   |                       |       |                 |        | Trivex only            |
| +6,0 to -6,0 cyl ±4,00 | +6,0 to -6,0 cyl ±4,00                 | +6,0 to -6,0 cyl ±4,00                 | +6,0 to -6,0 cyl ±4,00 | +6,0 to -6,0 cyl ±4,00                 |   |                       |       |                 |        | +6,0 to -6,0 cyl ±4,00 |
| Standard / Optima      | Optima only                            | Optima only                            | Optima only            | Optima only                            | ✓ | ✓                     | ✓     | ✓               | ✓      | Trivex only            |
| ✓                      | ✓                                      | ✓                                      | ✓                      | ✓                                      | ✓ | ✓                     | ✓     | ✓               | ✓      | Trivex only            |
| ✓                      | ✓                                      | ✓                                      | ✓                      | ✓                                      | ✓ | ✓                     | ✓     | ✓               | ✓      | Trivex only            |
| +6,0 to -6,0 cyl ±4,00 | +6,0 to -6,0 cyl ±4,00                 | +6,0 to -6,0 cyl ±4,00                 | +6,0 to -6,0 cyl ±4,00 | +6,0 to -6,0 cyl ±4,00                 |   |                       |       |                 |        |                        |
| ✓                      |  |  | ✓                      |  | ✓ | ✓                     | ✓     | ✓               | ✓      |                        |
| +6,0 to -6,0 cyl ±4,00 |  |  | +6,0 to -6,0 cyl ±4,00 |  |   |                       |       |                 |        |                        |
| ✓                      | ✓                                      | ✓                                      | ✓                      | ✓                                      | ✓ | ✓                     | ✓     | ✓               | ✓      | Trivex only            |
| ✓                      | ✓                                      | ✓                                      | ✓                      | ✓                                      | ✓ | ✓                     | ✓     | ✓               | ✓      | Trivex only            |
| ✓                      | ✓                                      | ✓                                      | ✓                      | ✓                                      | ✓ | ✓                     | ✓     | ✓               | ✓      | Trivex only            |
| +6,0 to -6,0 cyl ±4,00 | +6,0 to -6,0 cyl ±4,00                 | +6,0 to -6,0 cyl ±4,00                 | +6,0 to -6,0 cyl ±4,00 | +6,0 to -6,0 cyl ±4,00                 |   |                       |       |                 |        |                        |

# Prescription curved safety spectacles

Lifestyle at work



## uvex RX sp frames

Make a statement with the uvex RX sp collection which stands out due to its sporty design and appealing frame colour combinations . All protection functions are fully integrated into the frame design requiring no separate side guards which is commonly the case with conventional protective spectacles .

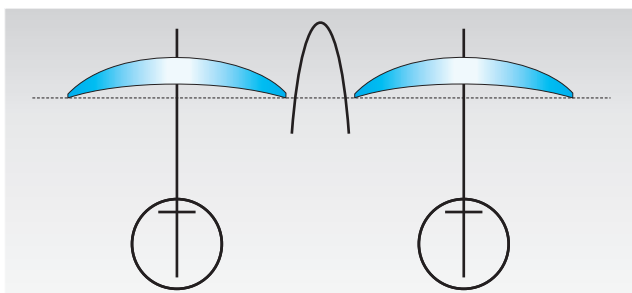
The wraparound design offers the perfect fit and maximum protection thanks to its wide side arms and curvature of the lens .As with all uvex models ,only the highest quality plastics are used in its protection .

## uvex anatomic sport lens

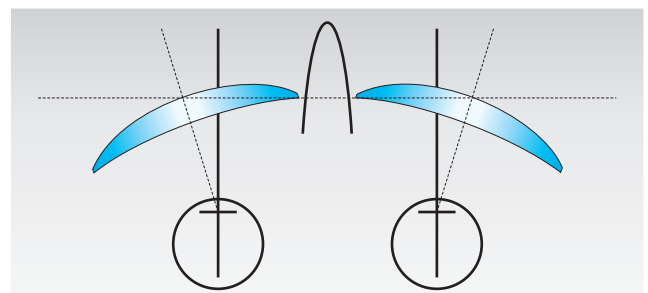
The stronger curve of the uvex RX sp frame positions the lenses at an angle straight in front of the eye .We only use the specially developed uvex anatomic sport glazing to deliver maximum optical clarity .

This means:

- that we only use lenses with a base curve identical to that of the frame .
- that prescription values need to be recalculated based on the tilt
- dposition of the lenses .This will be considered for the glazing process .



**Conventional prescription glasses:**  
The planes of the right and left lenses are virtually congruent.



**Spectacles with more strongly curved frame :**  
The planes of the right and left lenses are tilted toward one another.

## uvex hd lenses - maximum individuality

A number of individual parameters are taken into account in the manufacture of uvex HD lenses :

- individual prescription values
- centering parameters (**pupillary distance, fitting height**)
- base curve of the lenses and the frame
- face form -wrap and pantoscopic tilt
- corneal vertex distance

**No greater customisation is possible .**

uvex HD lenses are available in the single vision HD and varifocal Optima HD designs .uvex service opticians or your uvex optical consultant will determine the individual measurements for you .

Special programs have been developed to map thousands of individual points on the inside of the lenses . The results are directly incorporated into the customised uvex optima HDlenses .

# Prescription safety spectacles

uvex RX sp



5512 1348 65/16



5512 5573 65/16

## uvex RX sp 5512

- sporty, plastic "wraparound" design with curved lenses and anatomic sport glazing with base 8
  - uvex tight fit kit consisting of headband and foam material available
  - side shield and integrated brow guard frame design
  - the arms can be replaced with a headband for a more secure fit when working in extreme conditions
  - the foam material guarantees a close and firm fit .
  - very good fit with anatomically adjustable ,soft nose bridge
  - sporty side arms with a combination of soft and hard components ensure increased comfort and non slip fit
- Applications in combination with the tight fit kit :
- working in extreme situations ,such as overhead or in confined spaces
  - working with fluids (drops) or chips and dust

|                      |                 |                    |
|----------------------|-----------------|--------------------|
| <b>Art. no.</b>      | 6109.220        | 6109.221           |
| <b>Ref. no.</b>      | 5512 5573 65/16 | 5512 1348 65/16    |
| <b>Lens diameter</b> | 65 mm           | 65 mm              |
| <b>Bridge width</b>  | 16 mm           | 16 mm              |
| <b>Colour</b>        | brown, olive    | anthracite, orange |

Please note the glazing options for uvex RX sp on page 24/25



6118.004 ight-fit-kit



5512 5573 65/16 assembled with uvex tight-fit-kit 6118.004



6118.005tight-fit-kit



5512 1348 65/16 assembled with uvex tight-fit-kit 6118.005



5510 1217 62/17



5510 1248 62/17

## uvex RX sp 5510

- sporty, plastic "wraparound" design with curved lenses and anatomic sport glazing with base 6
- side shield and integrated brow guard frame design
- good fit with anatomically shaped soft nose bridge
- sporty arms with a combination of soft and hard components ensure increased comfort and non slip fit

|                      |                        |                    |
|----------------------|------------------------|--------------------|
| <b>Art. no.</b>      | 6109.216               | 6109.217           |
| <b>Ref. no.</b>      | 5510 1217 62/17        | 5510 1248 62/17    |
| <b>Lens diameter</b> | 62 mm                  | 62 mm              |
| <b>Bridge width</b>  | 17mm                   | 17mm               |
| <b>Colour</b>        | matt black, light gray | matt black, orange |

# uvex RX goggle

The first wide vision goggles directly fitted with prescription lenses

**Direct prescription lenses ensure perfect vision at all times .**

uvex RX goggle :the first wide vision goggles that can be directly fitted with prescription lenses .In contrast to standard prescription solutions with overspecs or prescription inserts ,these goggles offer the best possible optical quality without optical aberrations and additional loss of light .The uvex RX goggle can therefore ,be worn for extended periods with complete comfort .

Spectrophotometer measurements have shown that the transmission factor of the uvex RX goggle is up to 18% higher than safety goggles with prescription inserts or overspecs. The higher transmission level minimises the strain on eye muscles .This is further boosted by an additional antireflective coating on the prescription lenses .



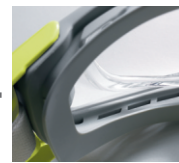
**Direct prescription lenses**

Prescription safety lenses are inserted directly into the goggle frame according to the individual prescription strength.



**Flexible headband clip**

The flexible headband clip allows the goggle to adjust to different facial shapes for a customised fit. The comfortable fabric headband keeps the uvex RX goggle securely in place.



**Sophisticated ventilation**

Direct and indirect air vents ensure optimum protection and excellent ventilation for "eye zone" comfort.



**Hygiene**

The flexible TPU frame is easy to clean. These goggles can be kept clean and hygienic, even under heavy strains and in extreme conditions.

## uvex RX goggle

|               |                  |
|---------------|------------------|
| Art. no.      | 6109.500         |
| Ref. no.      | 9500 1379 61/14  |
| Lens diameter | 61 mm            |
| Bridge width  | 14 mm            |
| Colour        | anthracite, lime |



Safety eyewear case with pocket for regular spectacles included

Please note the glazing options for uvex RX goggle on pages 22/23

**PC +**

uvex uses highly impact resistant polycarbonate and has also increased the thickness in the middle of the lens .To ensure the eyewear remains securely in place upon impact ,the frame is equipped with a special shock absorbing nut and the lenses have been shaped to deflect objects .

As a result, these prescription safety spectacles are the first to ever achieve mechanical strength class B. The frame and lenses both bear the relevant labelling.

For testing mechanical strength "B" a metal ball is fired frontal and lateral against the spectacle with impact speed of 432 km/h. (Comparison EN 166: impact with medium energy, 120 m/sec)

**Recommended applications**

for uvex RX goggles with PC + :

- Workplaces with high risk of mechanical hazards ,such as reshaping metal cuttings ,turning ,grinding and milling .
- Mechanical strength "B", 120 m/s

**For uvex RX goggles with Trivex:**

- Workplaces with high risk of chemical hazards ,such as laboratories and those handling small quantities of chemicals .
- Mechanical strength "F", 45 m/s

For further information on lens materials and models ,information can be found on page 24-27

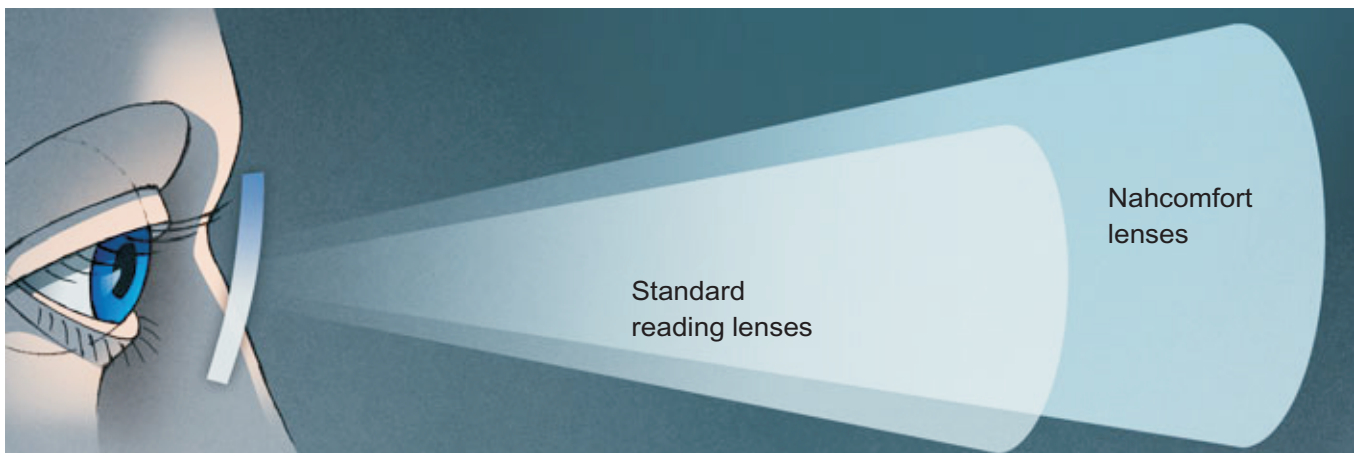
# VDU spectacles

VDU - Visual Display Unit

## Spectacle lens technology and body posture at VDU workstations

The positioning of screen, keyboard and reading materials at office workstations can cause vision related problems. To be able to focus properly at different distances, spectacle wearers adopt an unnatural head position and body posture,

which can lead to posture related discomfort. As you become older, it becomes increasingly difficult for the lens within the eye to adjust to various distances. Working in front of a VDU or performing other activities that involve alternating between different distances frequently causes fatigue as a result of the constant strain to the eye.

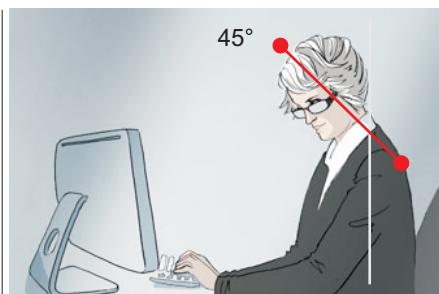


The diagrams and explanations above outline the differences between the various lens options; the potential affect on the wearer and how the Nahcomfort overcomes many of the issues experienced by those working at a VDU or computer.



### Varifocal lenses

Varifocal lenses are designed to give the wearer focused vision from 40cm onwards. However, to see the computer screen clearly through the middle and lower areas of the lenses, the wearer has to change their normal head posture and hold their head at an unusually high angle. This can result in permanent straining of the shoulder and neck muscles.



### Single-vision lenses

Single-vision lenses, as used in standard reading glasses, enable the wearer to see clearly at a normal reading distance of between 30cm and 40cm, which is the ideal distance for keyboards or printed documents. However, if an employee also wishes to see the computer screen and the surrounding area clearly, it is necessary to lower the head and look over the top of the reading glasses. This unnatural head posture puts a severe strain on the shoulder and neck muscles.



### Nahcomfort lenses


Nahcomfort lenses are specially designed to suit computer-based workplaces and provide unrestricted vision at VDU workstations.

The advantages are :

- seamless focused vision from 30cm to approx. 2 meters,
- the head remains in an ideal position allowing keyboards, computer screens and work documents to be seen clearly,
- a marked reduction of posture-related complaints, because the head and neck remain in a natural position.

# Prescription safety spectacles

Lens options for uvex RX sp models

| uvex RX sp 5510  | Lens type  | Parameter for centering of  |
|--|--|---|
|   | <b>Single vision</b>   | Specific height<br>Box measure  |
|  | <br>Single vision<br>Single vision HD   |   |
|  | <b>Comfort lenses</b>  |   |
|  |   <br>Nahkomfort Optima    Distanzkomfort Optima    Single vision Relax       | Nahkomfort Optima (Rdr. degr.)    min. 18 mm<br>Distanzkomfort Optima (Rdr. dist.)    min. 18 mm  |
|  | <b>Varifocals</b>  |   |
|  |  <br>Progresiv Pro Work    Progresiv Optima  | Varifocal Pro Work (Mag A)    14 - 18 mm<br>Varifocal Optima (Mag A VIP)    14 - 18 mm  |
|  | Prescription range   |   |
| uvex RX sp 5512  |  |   |
| <br> | <b>Single vision</b>   |   |
|  | <br>Single vision<br>Single vision HD   |   |
|  | <b>Comfort lenses</b>  |   |
|  |   <br>Nahkomfort Optima    Distanzkomfort Optima    Single vision Relax | Nahkomfort Optima (Rdr. degr.)    min. 18 mm<br>Distanzkomfort Optima (Rdr. dist.)    min. 18 mm<br>Single vision Relax (Ac2)    min. 18 mm |
|  | <b>Varifocals</b>  |   |
|  |  <br>Progresiv Pro Work    Progresiv Optima  | Varifocal Pro Work (Mag A)    14 - 18 mm<br>Varifocal Optima (Mag A VIP)    14 - 18 mm  |
|  | Prescription range   |   |
| uvex RX google   |  |   |
|   | <b>Single vision</b>   | Specific height<br>Box measure  |
|  | <br>Single vision<br>Single vision HD   |   |
|  | <b>Varifocals</b>  |   |
|  |  <br>Progresiv Pro Work    Progresiv Optima  | Varifocal Pro Work (Mag A)    14 - 18 mm<br>Varifocal Optima (Mag A VIP)    14 - 18 mm  |
|  | Prescription range   |   |

In order to ensure optimum vision, uvex only uses the special uvex anatomic sport glazing. The overview below provides information on the lens options for uvex RX sp frames. Please also ensure the frame fits correctly.

| the lenses | Material               |  |  |                        |  | Additional treatments |       |                 |        |                        |
|------------|------------------------|--|--|------------------------|--|-----------------------|-------|-----------------|--------|------------------------|
|            | CR39 1.50              | Organic glass                          |  | PC 1.59                | Trivex 1.53                            | Opal                  | Ultra | UV blue protect | Colour | Variomatic brown       |
|            |                        | HI 1.6                                 | HI 1.67                                |                        |  |                       |       |                 |        |                        |
|            | ✓                      | Hard coat incl. Only Ultra or Ultra UV | Hard coat incl. Only Ultra or Ultra UV | Hard coat incl.        | Hard coat incl. Only Ultra or Ultra UV | only CR39             | ✓     | ✓               | ✓      | Trivex only            |
|            | ✓                      | ✓                                      | ✓                                      | ✓                      | ✓                                      | only CR39             | ✓     | ✓               | ✓      | Trivex only            |
|            | ✓                      | ✓                                      | ✓                                      | ✓                      | ✓                                      | only CR39             | ✓     | ✓               | ✓      | Trivex only            |
|            | ✓                      | ✓                                      | ✓                                      | ✓                      | ✓                                      | only CR39             | ✓     | ✓               | ✓      | Trivex only            |
|            | ✓                      | ✓                                      | ✓                                      | ✓                      | ✓                                      | only CR39             | ✓     | ✓               | ✓      | Trivex only            |
|            | +5,0 to -5,0 cyl ±4,00 | +5,0 to -5,0 cyl ±4,00                 | +5,0 to -5,0 cyl ±4,00                 | +5,0 to -5,0 cyl ±4,00 | +5,0 to -5,0 cyl ±4,00                 | only CR39             |       |                 |        | +5,0 do -5,0 cyl ±4,00 |
|            | ✓                      | Hard coat incl. Only Ultra or Ultra UV | Hard coat incl. Only Ultra or Ultra UV | Hard coat incl.        | Hard coat incl. Only Ultra or Ultra UV | only CR39             | ✓     | ✓               | ✓      | Trivex only            |
|            | ✓                      | ✓                                      | ✓                                      | ✓                      | ✓                                      | only CR39             | ✓     | ✓               | ✓      | Trivex only            |
|            | ✓                      | ✓                                      | ✓                                      | ✓                      | ✓                                      | only CR39             | ✓     | ✓               | ✓      | Trivex only            |
|            | ✓                      | ✓                                      | ✓                                      | ✓                      | ✓                                      | only CR39             | ✓     | ✓               | ✓      | Trivex only            |
|            | ✓                      | ✓                                      | ✓                                      | ✓                      | ✓                                      | only CR39             | ✓     | ✓               | ✓      | Trivex only            |
|            | ✓                      | ✓                                      | ✓                                      | ✓                      | ✓                                      | only CR39             | ✓     | ✓               | ✓      | Trivex only            |
|            | +5,0 to -5,0 cyl ±4,00 | +5,0 to -5,0 cyl ±4,00                 | +5,0 to -5,0 cyl ±4,00                 | +5,0 to -5,0 cyl ±4,00 | +5,0 to -5,0 cyl ±4,00                 |                       |       |                 |        | +5,0 do -5,0 cyl ±4,00 |
|            | CR 39                  | Organic glass                          |  | PC                     | Trivex                                 | Opal                  | Ultra | UV blue protect | Colour | Variomatic brown       |
|            |                        | HI 1,6                                 | HI 1,67                                |                        |  |                       |       |                 |        |                        |
|            |                        |  |  | Hard coat incl.        | Hard coat incl. Only Ultra or Ultra UV |                       |       |                 |        | Trivex only            |
|            |                        |  |  | ✓                      | ✓                                      | only CR39             | ✓     | ✓               | ✓      | Trivex only            |
|            |                        |  |  | ✓                      | ✓                                      | only CR39             | ✓     | ✓               | ✓      | Trivex only            |
|            |                        |  |  | +3,5 to -3,5 cyl ±4,00 | +3,5 to -3,5 cyl ±4,00                 |                       |       |                 |        | +3,5 to -3,5 cyl ±4,00 |

# Prescription safety spectacles

## Lens materials

### Lens materials

#### Polycarbonate

- Additional labelling: PC
- organic material with very high breaking strength
- only limited resistance to chemicals and therefore, not suited in combination with frameless safety spectacles
- mechanical strength, class "F" (45 m/sec)
- PC+ – polycarbonate with increased centre thickness, specially for uvex RX goggle (see page 359)

#### Trivex™

- organic material with high breaking strength
- light weight, suitable for even higher prescription values
- excellent optical performance, even for higher prescription values
- excellent resistance to cleaning agents, oils and cosmetics
- good scratch resistance
- best all-round lens material
- mechanical strength, class "F" (45 m/sec)

#### CR39

- Additional labelling: plastic
- Safety spectacles should always be modified otherwise the tensile strength is too low. The middle of the lens must be thicker in order to meet the requirements for tensile strength.
- light weight organic material
- very good optical performance even for high prescriptions
- suitable for working with chemicals and paints/varnishes
- good scratch resistance due to hard layer (optional)
- mechanical strength, class "S" (falling ball test)

#### HI (high index), organic lens materials with high refractive index

- organic lenses with a refractive index of 1.6 or 1.67 provide better vision (than CR 39)
- the lenses have the required optical efficacy if they comprise less material and the surface is less curved
- the lens is thinner and more aesthetically pleasing
- recommended for a prescription > +/-4.0 dpt.: HI 1.6 recommended for a prescription > +/-6.0 dpt.: HI 1.67
- mechanical strength, class "S" (falling ball test)

#### Hardened glass

Additional labelling: silicate, mineral glass, glass  
Safety spectacles should always be modified otherwise the tensile strength is too low. The tensile strength is increased through thermal or chemical hardening treatments.

- mechanical strength, class "S" (falling ball test)
- highly scratch-resistant surface
- suitable for working with chemicals and paints/varnishes
- heavy weight, not recommended for prescription values greater than +/-4.0 dpt
- spark penetration when welding or grinding implosion with liquid metals

### Tinting

Tinted lenses provide effective protection against glare in areas with high light intensity (for example, sunlight).

#### Constant tinting

- available in brown and grey
- tinting levels: 15%, 25%, 65%, 75%

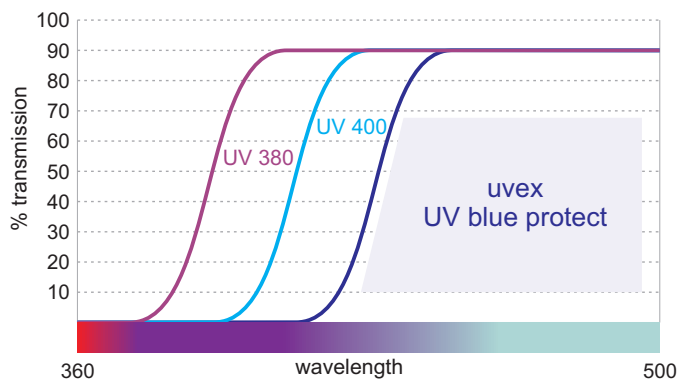
#### Variable tinting – Variomatic™

- lenses tint automatically, depending on the intensity of the UV radiation and temperature
- tinting of between approx. 8% and 80%, in brown
- Polycarbonate and Trivex™ prescription safety lenses

### UV blue protect

The lens material with a special absorber that completely filters UV radiation and reduces blue light.

- lenses 100% absorb UV radiation up to 400 nm and filter almost all short-wave blue light up to 410 nm and reduce 86% of the light from 410 to 420 nm
- uvex UV blue protect lenses enhance contrast and prevent eye fatigue and also prevent retinal degeneration of the retina (AMD)
- mechanical resistance is ensured, transparent lenses with UV blue protectors have a mark of 2C1.2
- uvex UV blue protect is optionally available for lenses CR39, Polycarbonate and HI 1.6 and 1.67



# Prescription safety spectacles

Anti-reflective coating

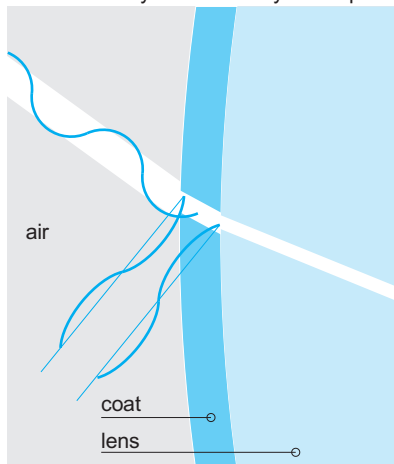
## Anti-reflective coating

Anti-reflective coating is applied to the inside and outside of lenses by vapour deposition. It significantly reduces reflections on the surfaces, as well as offering an aesthetic advantage and reducing light transmission.

- Advantages of lenses with antireflective coatings:
- surface reflections are significantly reduced
- fingerprints and other dirt are less gripping to the surfaces
- the surface of the lens is more resistant to mechanical damages
- water droplets slip from the surface
- reduced fogging on the lenses

All this helps to better vision and reduce eye fatigue, which increases workplace safety.

Work efficiency and accuracy are improved.



Three types of coatings are available:

- Opal: the standard antireflective coating
- Opal Ultra: antireflective coating with self-cleaning coating for easy cleaning and less fogging
- Opal UltraUV: antireflective coating with self-cleaning coating for easier cleaning and less fogging, which prevents UV glare from reflecting eyes.

## How to treat the spectacles

Instructions for spectacle care, also with antireflective coatings:

- Always take spectacles off with both hands.
- Carry them in a case or make sure the lenses point upward at all times. In this way you will avoid getting scratches on lenses.
- Lenses should not be exposed to temperatures above 40°C (car, sauna, hair-dryer, heaters, grill).. High temperature causes cracking.
- Clean the lenses in tepid water with a pH-neutral dishwashing detergent, then rinse them with running water.
- Do not expose them to aggressive substances and solvents.
- When outside, clean your glasses with a cloth and a cleaning spray. The cloth should be made of micro fibre and always clean, so carry it in a case along with spectacles.
- Micro fibre cloth can be washed (up to 40°C, no softener) and reused.



distrurbing reflection on the lens without coating

clear vision by Opal Ultra



fingerprints and dirt on the lens without coating

clear surface by Opal Ultra



dust particles on the lens without coating

clear surface by Opal Ultra



scratches and damages on the lens without coating

undamaged surface by Opal Ultra



water droplets on the lens without coating

clear surface by Opal Ultra

# Prescription safety spectacles

## Focustypes

### Single vision lenses

Single vision lenses correct long and short sightedness .

### Multi focal lenses

#### Bifocal

Visibly ground segment for near vision (reading field)  
Abrupt transition from distance to near vision at the edge of the segment.

Instant wearer acceptance :distinct edge helps eyes to adjust  
Intermediate ranges are not corrected.

#### Multifocal

- Gradual transition from distance to near vision ,known as progressive lenses.
- Invisible progression also corrects in between distance
- Clear vision at all viewing distances
- May require an initial phase of adjustment

### uvex HD lenses

uvex HD lenses – maximum individuality

uvex optima prescription lenses in the so called free form design are produced specially for you .The inner surface of the raw lenses is calculated and produced taking into account your individual prescription ,the glass curve and your eye measurements (distance between the eyes and fitting height ) .

Further individual parameters such as corneal vertex distance , face form wrap and pantoscopic tilt are also taken into account .

Special programs have been developed to map thousands of individual points on the inside of the lenses .The results are directly incorporated into the customised uvex optima HD lenses .

Greater customisation is not possible .

uvex optima HD lenses are available in the single vision HD and varifocal Optima HD designs .

Selected optical associates or your uvex optical consultant will determine the individual measurements for you .

### Comfort lenses

Comfort lenses are mainly used at computer workstations. Invisibly integrated correction areas ease the strain on the eyes when looking at near and intermediate distances (so-called accommodation support).

The visual requirements in many other working environments are also limited to areas ,which are just in front of the eye up to a few meters away .

Comfort lenses are a good alternative ,if the prescription safety spectacles are only used a workstations and distance vision (> 5 m distance) is mainly not necessary.

#### Nahcomfort Standard (ACC)

- Ideal solution for working distances from 30 cm to 2 m
- Two types are available, depending on addition and age of user
- Required ordering data is near prescription and design (Tip A, B)

| Type A              | Type B              |
|---------------------|---------------------|
| Degression 0,75 dpt | Degression 1,25 dpt |
| up to age of 50     | after age of 50     |

#### Nahcomfort Optima (RDR degression)

- Perfect solution for working distances between 30 cm and around 2 m
- The medium range of the lens surface is determined by the degression chosen and is designed for a distance of ca. 60 to 80cm.
- Three versions available, depending on the required prescription for reading distance (addition) and the age of the wearer
- All that is needed to place an order are details of the close-range values and the required design (type A, B, C)
- When ordering the Nahcomfort Optima option, the inner surface of the raw lenses are calculated and manufactured, taking into account the correction, the glass curve and the distance between the eyes

#### Distanzcomfort Optima (RDR distance)

- Perfect solution for working distances between 30 cm and around 1 m, 2 m or 4 m
- By specifying the viewing distance, which is required at the workstation, the correction areas will be calculated individually
- All that is needed to place an order are details of the distance and close-range values (addition), the viewing distance (one, two or four metres) as well as the eye measurements (distance between the eyes and fitting height)

#### Single Vision Relax (Ac2)

- This type of lens is targeted at people over the age of 30.
- An invisibly integrated change to the correction value of +0.5 dpt. in the lower area of the lens eases the strain on the eye when looking at near distances (so-called accommodation support).
- The distance correction remains unchanged
- All that is needed to place an order are details of the distance values and the eye measurements (distance between the eyes and fitting height)
- We recommend Single Vision Relax lenses for professionals, who use mobile devices (notebook, tablet, smartphone etc.) for their daily work.

# Prescription safety spectacles

## Certification and labelling

The frames and lenses of tailor-made prescription safety spectacles in accordance with European standard 166 must feature a permanent mark.  
 Independent testing institutes carry out certification of the materials at regular intervals.  
 Frames and lenses must be marked with the manufacturer's identification and the mechanical strength, and the lenses must also be marked with the optical quality class.  
 The different methods used to test mechanical strength vary according to the lens material. The test methods are defined under European standard EN 168.  
 If the mechanical strength level marked on the lens differs from that on the frame, the lower mechanical strength applies to the eye protection as a whole.

**NB: due to marking requirements, it is not possible to purchase frames without lenses. Please do not modify any feature of the complete spectacles obtained from uvex as this may reduce their protective function.**

- **Basic requirements in accordance with EN 166** extract)
- Mechanical strength

| Increased robustness   | Impact resistance, low energy  | Impact resistance, medium energy  |
|--|--|---|
| Ball bearing drop test, Dropping a ball bearing (44 g) against the lens/supporting frame from a height of 1.30 m | Firing a ball bearing (0.88 g) against the lens/supporting frame, Impact speed 45 m/s (162 km/h) | Firing a ball bearing (0.88 g) against the lens/supporting frame, Impact speed 120 m/s (432 km/h) |
| Identification class: S  | Identification class: F  |   |

**Additional requirements in accordance with EN 166** (extract)


- Resistance to liquids (droplets and splashes)  
Labelling: 3
- Resistance to coarse dust (grain size > 5 µm)  
Labelling: 4

**Optional requirements in accordance with EN 166** (extract)

- Mechanical strength tested under extreme temperatures (+50°C and -5°C)  
Labelling: T  
This labelling is always in combination with mechanical strength (forexample, FT).

### Marking according to EN 166


| Lens marking                |               |   |
|-----------------------------|---------------|---|
| Manufacturer identification | Optical grade | Mechanical strength   |
| W = <b>uvex</b>             | 1             | S = Increased robustness<br>F = Impact resistance , low energy (45m/s)<br>B = Impact resistance , medium energy (120 m/s) |



**W 1 F CE Δ**

- W | Manufacturer identification
- 1 | Optical grade
- F | Mechanical strength
- CE | Conformity sign
- Δ | Alcom

| Frames marking              |   |                        |
|-----------------------------|---|------------------------|
| Manufacturer identification | Mechanical strength   | Applicable EN standard |
| W = <b>uvex</b>             | S = Increased robustness<br>F = Impact resistance , low energy (45m/s)<br>B = Impact resistance , medium energy (120 m/s) | 166                    |



**W F 166 CE**

- W | Manufacturer identification
- F | Mechanical strength
- 166 | EN standard
- CE | Conformity sign

“F” constitutes the highest mechanical strength class which a pair of spectacles can be allocated according to EN 166.

# Equipment

## uvex spectacle cleaning station

Suitable for all uvex safety spectacles.  
Includes cleaning tissues, cleaning fluid and plastic pump.  
The practical station is mounted on wall with screws.  
Accessory for mounting: magnetic wall bracket.  
Station should be positioned on visible place, ensuring employees quick and easy access to cleaning equipment for excellent vision at any time!



## uvex cleaning station

- contains:
  - 2 x 9971.000 Cleaning tissues
  - 1 x 9972.103 uvex cleaning fluid (0.5 l)
  - 1 x 9973.101 Plastic pump

|                    |                       |
|--------------------|-----------------------|
|                    | uvex cleaning station |
| <b>Article no.</b> | 9970.005              |
| <b>Order unit</b>  | piece                 |

## Plastic pump

- for uvex cleaning fluid 9972.103

|                    |              |
|--------------------|--------------|
|                    | Plastic pump |
| <b>Article no.</b> | 9973.101     |
| <b>Order unit</b>  | piece        |

## uvex cleaning fluid

- 0.5 l cleaning fluid
- Suitable for all uvex safety and other spectacles

|                    |                     |
|--------------------|---------------------|
|                    | uvex cleaning fluid |
| <b>Article no.</b> | 9972.103            |
| <b>Order unit</b>  | piece               |

## Cleaning tissues

- Refill silicon-free cleaning-tissue
- Approx. 700 tissues
- Antistatic
- Suitable for all uvex safety and other spectacles

|                    |                  |
|--------------------|------------------|
|                    | Cleaning tissues |
| <b>Article no.</b> | 9971.000         |
| <b>Order unit</b>  | piece            |

## Magnetic wall brackets

- for simple mounting of uvex cleaning station (9970.005)

|                    |                        |
|--------------------|------------------------|
|                    | Magnetic wall brackets |
| <b>Article no.</b> | 9963.004               |
| <b>Order unit</b>  | 1 set (4 pieces)       |



ALCOM d.o.o.  
Partizanska cesta 26  
4000 Kranj  
Slovenija

Tel. SI: 04 20 18 233  
Tel. AT: +43 720 776 007  
Tel. DE: +49 89 614 29 690  
Fax: 04 20 11 580  
Mob: 040 663 660  
tehnična pomoč: 04 20 18 248  
e-mail za naročanje: [order@alcom.info](mailto:order@alcom.info)  
[www.alcom.si](http://www.alcom.si)

ID številka za DDV: SI60022396  
Matična številka: 3938263000



UVEX ARBEITSSCHUTZ GMBH  
SBU Occupational Health  
Siegeldorfer Str. 1-3  
90768 Fürth  
Germany

Phone: +49 911 9736-1400  
Fax: +49 911 9736-1679  
mail: [customerservice.sbu-oh@uvex.de](mailto:customerservice.sbu-oh@uvex.de)  
web: [www.uvex-safety.com](http://www.uvex-safety.com)

ABANKA d.d.  
TRR: 05100-8013256691  
SWIFT: ABANSI2

Kärntner Sparkasse AG  
Sparkassenplatz 1  
AT-9170 Ferlach  
IBAN: AT90 2070 6045 0039 1661  
BIC: KSPKAT2KXXX