

uvex

PROTECTING PEOPLE



Prescription safety eyewear 2012

Perfect protection – tailored to your requirements

Prescription safety spectacles

Customized Eyewear

Prescription safety spectacles are the best protection for employees with visual impairments in work areas where protective eyewear is compulsory. Individual workplace requirements can be taken into account when choosing the right frame and lenses.

All components of the eyewear have undergone extensive test and certification procedures and therefore set stringent benchmarks for high quality standards in line with European Norm 166.

Both the frame and lenses are labelled accordingly and these marks are the quality seal certifying that the safety eyewear conforms to the standard. Discover more about certification and labelling on page 14.

An industrial safety product only fulfils its purpose when it is accepted and used.

Experience has shown that personalised industrial safety products have a significantly higher wearer acceptance and are treated with much greater care than standardised products.

We offer a comprehensive on-site service including a risk assessment, subsequent product recommendations and record all relevant data for the manufacture of tailor-made safety eyewear.

In addition, we have a strong network of local partners to guarantee high uvex quality standards in your area.

Prescription safety spectacles



Tailor-made prescription safety spectacles certified in accordance with EN 166

Lens material and prescription selected to meet the personal vision requirements for the workplace

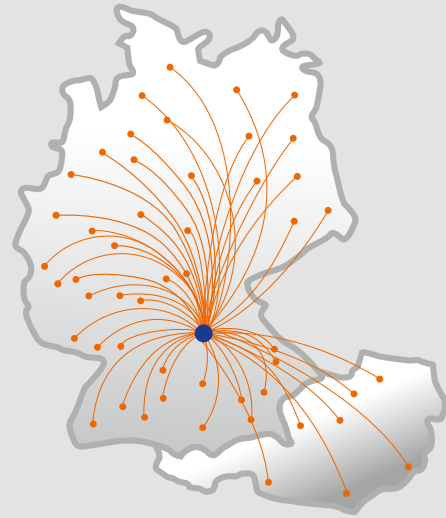
Wide range of frames

Tests can be carried out on site or by uvex partner opticians in your area



Prescription safety spectacles

Partnership with uvex



Summary of your benefits

- Customised solution for each member of staff
- Legal security based on certified products
- Spectacles can be supplied locally
- Safety training carried out at your premises
- Training and information on risks given in the workplace
- Individual advice on products to suit the particular work area
- Huge selection of frames
- Extensive selection of lens materials and designs



A strong network

Wherever you are

With tailor-made products, it is particularly important to be able to offer customers fast, expert service on the spot.

In addition to personal customer care by our team of specialists, uvex works with a nationwide network of optical specialists in the prescription safety eyewear sector.

Our service opticians carry a wide sample range and will be happy to assist you in selecting the right products for your optical requirements in the workplace.

The required measurements are taken by experts and the order is forwarded directly to us by the partner opticians. Your order for prescription safety spectacles is then manufactured in the uvex factory.

In the context of further training at our uvex academy, we are offering a practical seminar, which will enable members of staff, for example the personnel responsible for occupational safety, to carry out their own eyewear selection in the business (see page 19).

There are a number of different ways of obtaining uvex prescription safety glasses. We would be happy to assist you in identifying the best way for you. Please do not hesitate to contact us.

Prescription safety spectacles

Metal frames



uvex 9253 silverstar

- Metal frame with slimmer profile
- Anatomically adjustable nose bridge
- Transparent side shields attached with screws
- Easily adjustable comfortable Duofit ear pieces

Art. no.	9253.001
Ref. no.	9253 001 50/20
Lens	50 mm
Nosepiece width	20 mm
Colour	silver



uvex 9254 greystar

- Classic design metal frame
- Anatomically adjustable nose bridge
- Transparent side shields attached with screws
- Easily adjustable comfortable Duofit ear pieces

Art. no.	9254.001
Ref. no.	9254 001 50/20
Lens	50 mm
Nosepiece width	20 mm
Colour	gunmetal matt



Art. no.	9254.002
Ref. no.	9254 002 52/20
Lens	52 mm
Nosepiece width	20 mm
Colour	gunmetal matt



uvex 9154 starlet

- Metal frame with oval-shaped lenses
- Anatomically adjustable nose bridge
- Transparent side shields attached with screws
- Easily adjustable comfortable Duofit ear pieces

Art. no.	9154.490
Ref. no.	9154 490 47/20
Lens	47 mm
Nosepiece width	20 mm
Colour	antique gold



Art. no.	9154.491
Ref. no.	9154 491 49/20
Lens	49 mm
Nosepiece width	20 mm
Colour	antique gold



Prescription safety spectacles

Metal frames



uvex 9155 mercury

- Slim, expressive metal frame
- Anatomically adjustable nose bridge
- Transparent side shields attached with screws
- Easily adjustable comfortable Duofit ear pieces

Art. no.	9155.460
Ref. no.	9155 460 54/19
Lens	54 mm
Nosepiece width	19 mm
Colour	steel blue



Art. no.	9155.461
Ref. no.	9155 461 56/19
Lens	56 mm
Nosepiece width	19 mm
Colour	steel blue



uvex 9248 titan

- Thin, expressive titanium frame
- Light, hypoallergenic pure titanium nose bridge
- Flexible beta titanium side arms
- Anatomically adjustable nose bridge
- Transparent side shields attached with screws
- Easily adjustable comfortable Duofit ear pieces

Art. no.	9248.001
Ref. no.	9248 001 52/19
Lens	52 mm
Nosepiece width	19 mm
Colour	titanium blue



▶ Frame material: titanium

uvex 9256 Pilot

- Fashionable, aviator-style metal frame
- Anatomically adjustable nose bridge
- Transparent side shields attached with screws
- Easily adjustable comfortable Duofit ear pieces

Art. no.	6109.100
Ref. no.	5102 1400 51/20
Lens	51 mm
Nosepiece width	20 mm
Colour	gunmetal matt



Art. no.	9256.001
Ref. no.	9256 001 53/20
Lens	53 mm
Nosepiece width	20 mm
Colour	gunmetal matt



Prescription safety spectacles

Metal frames



uvex 9152 classic

- Classic metal frame with double-bar nose piece
- Anatomically adjustable nose bridge
- Particle protection between the nose and second bridge
- Transparent side shields attached with a metal clip
- Easily adjustable comfortable Duofit ear pieces

Art. no.	9152.480
Ref. no.	9152 480 50/18
Lens	50 mm
Nosepiece width	18 mm
Colour	gunmetal



Art. no.	9152.482
Ref. no.	9152 482 52/18
Lens	52 mm
Nosepiece width	18 mm
Colour	gunmetal



Art. no.	9152.484
Ref. no.	9152 484 54/18
Lens	54 mm
Nosepiece width	18 mm
Colour	gunmetal



uvex 9158

- Striking metal frame design with double-bar nose piece
- Anatomically adjustable nose bridge
- Transparent side shields attached with a metal clip
- Easily adjustable comfortable Duofit ear pieces

Art. no.	9158.481
Ref. no.	9158 481 50/18
Lens	50 mm
Nosepiece width	18 mm
Colour	gunmetal



Art. no.	9158.480
Ref. no.	9158 480 52/18
Lens	52 mm
Nosepiece width	18 mm
Colour	gunmetal



Art. no.	9158.482
Ref. no.	9158 482 54/18
Lens	54 mm
Nosepiece width	18 mm
Colour	gunmetal



uvex 5101

- Classic metal frame with double-bar nose piece
- Anatomically adjustable soft nose pads
- Side shields made of wire mesh to allow good air circulation
- Side arms with spring hinges
- Easily adjustable comfortable Duofit ear pieces

Art. no.	6109.102
Ref. no.	5101 1018 54/17
Lens	54 mm
Nosepiece width	17 mm
Colour	black/silver



Art. no.	6109.103
Ref. no.	5101 1018 56/17
Lens	56 mm
Nosepiece width	17 mm
Colour	black/silver



uvex F 300

- Large metal frame with double-bar nose piece
- Anatomically adjustable soft nose pads
- Transparent side shields attached with screws
- Easily adjustable comfortable Duofit ear pieces

Art. no.	9259.300
Ref. no.	9259 300 56/21
Lens	56 mm
Nosepiece width	21 mm
Colour	gold/brown marble



Prescription safety spectacles

Plastic frames



uvex 9137 ceramic

- Panto-shaped Kevlar frames with metal side arms
- Anatomically shaped nose bridge
- Transparent side shields attached with screws
- Easily adjustable comfortable Duofit ear pieces

Art. no.	9137.240
Ref. no.	9137 240 49/20
Lens	49 mm
Nosepiece width	20 mm
Colour	burgundy



Art. no.	9137.260
Ref. no.	9137 260 49/20
Lens	49 mm
Nosepiece width	20 mm
Colour	cobalt blue



Art. no.	9137.290
Ref. no.	9137 290 49/20
Lens	49 mm
Nosepiece width	20 mm
Colour	grey



uvex 5503

- Plastic frames with classic lens shape
- Anatomically shaped nose bridge
- Transparent side shields
- Eyewire protection integrated in side shields

Art. no.	6109.202
Ref. no.	5503 2000 54/17
Lens	54 mm
Nosepiece width	17 mm
Colour	white



Art. no.	6109.203
Ref. no.	5503 1300 54/17
Lens	54 mm
Nosepiece width	17 mm
Colour	anthracite



Style with metal side arms	
Art. no.	6109.204
Ref. no.	5503 7415 54/17
Lens	54 mm
Nosepiece width	17 mm
Colour	anthracite
Metal side arms with spring hinges	



uvex 5504

- Plastic frames with oval-shaped lenses
- Anatomically shaped nose bridge
- Transparent side shields
- Eyewire protection integrated in side shields

Art. no.	6109.205
Ref. no.	5504 2000 55/20
Lens	55 mm
Nosepiece width	20 mm
Colour	white



Art. no.	6109.206
Ref. no.	5504 1300 55/20
Lens	55 mm
Nosepiece width	20 mm
Colour	anthracite



Style with metal side arms	
Art. no.	6109.207
Ref. no.	5504 1525 55/20
Lens	55 mm
Nosepiece width	20 mm
Colour	grey/translucent
Metal side arms with spring hinges	



Prescription safety spectacles

Plastic frames



uvex 5502 · 9134 meteor

- Close-fitting plastic frames
- Anatomically shaped nose bridge
- Side shields and upper eye rim protection integrated in frame design
- Specially-shaped frames provide protection against particles from below
- Side arms individually adjustable in four different lengths
- Adjustable comfortable Soft-form ear pieces

Art. no.	9134.290
Ref. no.	9134 290 56/15
Lens	56 mm
Nosepiece width	15 mm
Colour	smoke grey



Art. no.	6108.202
Ref. no.	5502 3525 56/15
Lens	56 mm
Nosepiece width	15 mm
Colour	light blue



uvex 5505

- Close-fitting plastic frames
- Anatomically shaped nose bridge
- Side shields and upper eye rim protection integrated in frame design
- Specially-shaped frames provide protection against particles from below
- Length and angle of side arms individually adjustable
- Adjustable comfortable Soft-form ear pieces

Art. no.	6109.208
Ref. no.	5505 2900 55/19
Lens	55 mm
Nosepiece width	19 mm
Colour	transparent



Art. no.	6109.209
Ref. no.	5505 2900 57/19
Lens	57 mm
Nosepiece width	19 mm
Colour	transparent



uvex 5506

- Comfortable plastic frame
- Anatomically shaped nose bridge
- Side shields and upper eye rim protection integrated in frame design

Art. no.	6109.210
Ref. no.	5506 1725 56/18
Lens	56 mm
Nosepiece width	18 mm
Colour	light grey translucent



Prescription safety spectacles

Plastic frames



uvex 9130 cosmoflex

- Comfortable plastic frame
- Anatomically shaped nose bridge
- Side shields and upper eye rim protection integrated in frame design
- Specially-shaped frames provide protection against particles from below
- Side arms individually adjustable in four different lengths
- Adjustable comfortable Duo-flex ear pieces

Art. no.	9130.292
Ref. no.	9130 292 56/17
Lens	56 mm
Nosepiece width	17 mm
Colour	grey



uvex 9168 RX

- Plastic frame with large, transparent nose piece
- Anatomically shaped nose bridge
- Side shields and upper eye rim protection integrated in frame design
- Adapted coloured top bar and side arms
- Side arms individually adjustable in four different lengths
- Comfortable Duo-flex ear pieces ensure pressure-free fit

Art. no.	9168.907
Ref. no.	9168 907 56/20
Lens	56 mm
Nosepiece width	20 mm
Colour	silver-grey



Art. no.	9168.937
Ref. no.	9168 937 56/20
Lens	56 mm
Nosepiece width	20 mm
Colour	yellow/black



Art. no.	9168.957
Ref. no.	9168 957 56/20
Lens	56 mm
Nosepiece width	20 mm
Colour	violet/green



Art. no.	9168.967
Ref. no.	9168 967 56/20
Lens	56 mm
Nosepiece width	20 mm
Colour	blue



uvex 9240 - welder flip-up

- Close-fitting plastic frames
- Anatomically shaped nose bridge
- Side shields and upper eye rim protection integrated in frame design
- Frame and side shields fully coloured
- Fold-up welding lenses offer level 5 certified welding protection

Art. no.	9240.290
Ref. no.	9240 290 54/22
Lens	54 mm
Nosepiece width	22 mm
Colour	oliv



uvex RX gravity zero

Rimless prescription safety spectacles

Safe sight made easy

The uvex RX gravity zero collection rimless prescription safety spectacles offer more than safety.

Frameless spectacles are extremely common in the private domain and differentiate themselves through their light weight and an uninhibited field of vision. The uvex RX gravity zero collection was developed taking account of these characteristics.

Through special construction and the application of high-quality materials for the frame and lenses, we have succeeded in creating frameless spectacles which meet the standard for industrial eye protection without restrictions.

The uvex RX gravity zero collection impresses with exceptional lightness, an uninhibited field of vision and high mechanical stability.



The series of pictures shows the shot test in compliance with EN 166, carried out with uvex RX gravity zero 7101 (steel ball Ø 6 mm, velocity of impact 45 m/sec).

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



A slow motion film showing prescription safety spectacles on uvex-safety.de

Lens materials in comparison

We recommend the use of lenses made of Trivex for rimless prescription safety spectacles. Trivex is not only mechanically highly stable it is also extremely light and chemical-resistant with excellent optical quality.

Material	Specific weight g/cm ³	Optical grade	Mechanical stability	Chemical resistance	Suitability for rimless prescription safety spectacles
Trivex	1.1	1	F	+++	+++
Polycarbonate	1.2	1	F	+	(+)
Highly refractive plastics HI 1,6/HI 1,67	1.33/1.4	1	S	++	++
CR-39, modified	1.3	1	S	++	not suitable
Tempered glass	2.5	1	S	+++	not suitable

Prescription safety spectacles

uvex RX gravity zero



uvex RX gravity zero 7101

- Rimless prescription safety spectacles
- Fashionable aviator-style lenses
- Anatomically adjustable soft nose pads
- Transparent side shields attached with screws
- Side arms with spring hinges
- Easily adjustable comfortable Duofit ear pieces

Art. no.	6109.300
Ref. no.	7101 1300 53/20
Lens	53 mm
Nosepiece width	20 mm
Colour	anthracite



► Prescription limited to + 4.0 resp. – 6.0 dpt. at maximum value, cyl. 4.0 dpt. Not available with hard glass or CR 39.

uvex RX gravity zero 7102

- Rimless prescription safety spectacles
- Classic panto-style lenses
- Anatomically adjustable soft nose pads
- Transparent side shields attached with screws
- Side arms with spring hinges
- Easily adjustable comfortable Duofit ear pieces

Art. no.	6109.301
Ref. no.	7102 1300 53/17
Lens	53 mm
Nosepiece width	17 mm
Colour	anthracite



► Prescription limited to + 4.0 resp. – 6.0 dpt. at maximum value, cyl. 4.0 dpt. Not available with hard glass or CR 39.

uvex RX gravity zero 7103

- Rimless prescription safety spectacles
- Small, oval-shaped lenses
- Anatomically adjustable soft nose pads
- Transparent side shields attached with screws
- Side arms with spring hinges
- Easily adjustable comfortable Duofit ear pieces

Art. no.	6109.302
Ref. no.	7103 1900 47/17
Lens	47 mm
Nosepiece width	17 mm
Colour	silver matt



► Prescription limited to + 4.0 resp. – 6.0 dpt. at maximum value, cyl. 4.0 dpt. Not available with hard glass or CR 39.

uvex RX gravity zero 7104

- Rimless prescription safety spectacles
- Thin lenses
- Anatomically adjustable soft nose pads
- Transparent side shields attached with screws
- Side arms with spring hinges
- Easily adjustable comfortable Duofit ear pieces

Art. no.	6109.303
Ref. no.	7104 1600 49/17
Lens	49 mm
Nosepiece width	17 mm
Colour	titanium



► Prescription limited to + 4.0 resp. – 6.0 dpt. at maximum value, cyl. 4.0 dpt. Not available with hard glass or CR 39.

uvex RX sp

Lifestyle at work

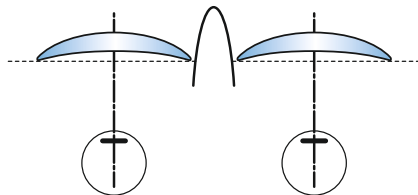
A sporty design and appealing colour combinations add a little more fun to the workplace!

All protection functions are fully integrated into the frame design, so that no separate side protection is needed as is the case with conventional protective spectacles. Maximum protection is afforded by wide side-arms, specially curved lenses (uvex anatomic sport) and the use of high-quality plastics.

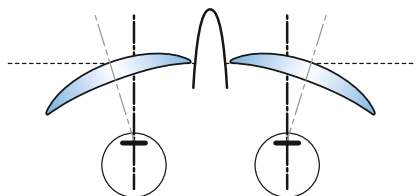


uvex anatomic sport lens

The stronger curve of the uvex RX sp frames positions the lenses at an angle in front of the eye. To avoid emerging visual defects, we only use the special uvex anatomic sport lens type.



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



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

In most cases, the prescription calculated for the uvex anatomic sport lens will differ from the original prescription.

Therefore, do not use the prescription of your uvex RX sp safety spectacles for a personal pair of glasses and inform your optician.

Prescription for uvex RX sp safety spectacles is limited to ± 5.0 dpt. at maximum value, cyl. 2.0 dpt.

uvex RX sp spectacles are not available with hard glass.

Prescription safety spectacles

uvex RX sp



uvex RX sp 5507

- Sporty, wraparound plastic frame design
- Anatomically shaped soft nose bridge
- Side shields and upper eye rim protection integrated in frame design
- The wraparound side arms and soft-grip ear pieces ensure a secure fit
- Interchangeable lens inserts for anatomic lenses

Art. no.	6109.211
Ref. no.	5507 5520 59/18
Lens	59 mm
Nosepiece width	18 mm
Colour	brown/white



Art. no.	6109.212
Ref. no.	5507 7820 59/18
Lens	59 mm
Nosepiece width	18 mm
Colour	lime/white



► Prescription limited to +/- 5.0 dpt. at maximum value, cyl. 2.0 dpt. Special anatomic sports lenses compulsory. Not available with hard glass.

uvex RX sp 9229

- Sporty, wraparound plastic frame design
- Anatomically shaped soft nose bridge
- Side shields and upper eye rim protection integrated in frame design
- Specially-shaped frames provide protection against particles from below
- Thin anatomic lenses
- Easily adjustable comfortable Softform ear pieces

Art. no.	9229.191
Ref. no.	9229 191 56/19
Lens	56 mm
Nosepiece width	19 mm
Colour	grey



Art. no.	9229.190
Ref. no.	9229 190 56/21
Lens	56 mm
Nosepiece width	21 mm
Colour	grey



Art. no.	6108.203
Ref. no.	5509 2000 56/19
Lens	56 mm
Nosepiece width	19 mm
Colour	white



Art. no.	6108.204
Ref. no.	5509 2000 56/21
Lens	56 mm
Nosepiece width	21 mm
Colour	white



Art. no.	6108.205
Ref. no.	5509 3080 56/19
Lens	56 mm
Nosepiece width	19 mm
Colour	dark metallic blue



Art. no.	6108.206
Ref. no.	5509 3080 56/21
Lens	56 mm
Nosepiece width	21 mm
Colour	dark metallic blue



► Prescription limited to +/- 5.0 dpt. at maximum value, cyl. 2.0 dpt. Special anatomic sports lenses compulsory. Not available with hard glass.



uvex 5508

- Sporty, wraparound plastic frame design
- Anatomically shaped soft nose bridge
- Protective function integrated in frame design
- Large anatomic lenses
- Fashionable wraparound side arms with soft components for a comfortable, secure fit

Art. no.	6109.213
Ref. no.	5508 1378 62/16
Lens	62 mm
Nosepiece width	16 mm
Colour	anthracite/lime



► Prescription limited to +/- 5.0 dpt. at maximum value, cyl. 2.0 dpt. Special anatomic sports lenses compulsory. Not available with hard glass.

Prescription safety spectacles

Certification and labelling

The frames and lenses of tailor-made prescription safety spectacles must feature a permanent EN 166 mark in order to fulfil the standards prescribed by EN legislation. Independent testing institutes carry out certification at regular intervals.

Frames and lenses must be marked with the manufacturer's identification and the mechanical or impact strength class of the spectacles, and the lenses must also be marked with the optical quality class.

Marking according to EN 166

Lens marking

Manufacturer identification	Optical grade	Mechanical strength	
W = uvex	1	S = Increased robustness F = Low-energy impact (45 m/sec.)	<p>W 1 F CE</p> <p>Conformity sign</p> <p>Mechanical strength</p> <p>Optical grade</p> <p>Manufacturer identification</p>

Frames marking

Manufacturer identification	Mechanical strength	Applicable EN standard	
W = uvex	S = Increased robustness F = Low-energy impact (45 m/sec.)	166	<p>W F 166 CE</p> <p>Conformity sign</p> <p>EN Norm</p> <p>Mechanical strength</p> <p>Manufacturer identification</p>

The different methods used to test mechanical strength vary according to the lens material. The test methods below are defined under EN 168:

Increased robustness

Ball bearing drop test,
Dropping a ball bearing (44g) against the lens/supporting frame from a height of 1.30 m

Identification class: "S"

Impact resistance, low energy

Firing a ball bearing (0.88g) against the lens/
supporting frame,
Impact speed 45 m/s (Δ 162 km/h)

Identification class: "F"

In compliance with the standard, both the frame and the lenses bear the manufacturer's identification code and also feature the mechanical strength. If the mechanical strength level marked on the lens differs from that on the frame, the lower mechanical strength applies to the eye protective equipment as a whole.

Please note that due to the marking requirement it is not possible to purchase frames without lenses. Please do not modify any feature of the complete spectacles you obtain from uvex, as this may reduce their protective function.

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

Prescription safety spectacles

Anti-reflective coating · Tinting

Anti-reflective lenses

Light is reflected on every lens surface, which results in an unwanted loss of light. Anti-reflective coatings reduce this effect and consequently, the loss of light.

Anti-reflective coatings based on the principle of displacement and interference can be applied to reduce reflections on lenses. Extremely thin, high-precision coatings are applied to the surface of the lens by a process of thermal evaporation.

Advantages of reflection reduction:

- Considerably higher contrast vision
- Light conductivity of the lenses is increased
- Visual discomfort is reduced
- Vision clarity is increased

There are different levels of reflection reduction:

Normal anti-reflective coating:

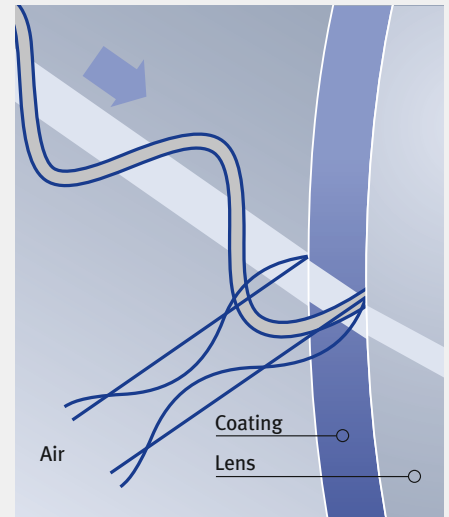
- Standard reflection reduction
- One wavelength of the visible light spectrum is cancelled out (interference)

Multiple anti-reflective coating:

- Double reflection reduction
- Two wavelengths of the visible light spectrum are cancelled out (interference)

Super anti-reflective coating:

- Maximum reflection reduction
- Many wavelengths of the visible light spectrum are cancelled out (interference)



Variomatic (variable tinting)

Lens surfaces are coated with a substance which reacts to UV radiation.

The surface changes on contact with UV light and the lens will automatically darken.

Some of the light in the visible light spectrum is absorbed more strongly, thereby protecting the eyes against strong light. In the absence of UV radiation, the lenses will automatically lighten again.

Variomatic lenses come with a basic tint of approx. 8 – 10%, and depending on the intensity of UV radiation and the temperature, they adjust the tint to approx. 70%.

Variomatic lenses are available for prescription safety eyewear in polycarbonate and Trivex.



Tinting (constant)

For protection from glare, e.g. for working outside, prescription protective glasses and glasses for work in front of a monitor can be produced with tinted lenses.

Tinting is available in grey or brown in absorption levels varying from 15% to 75%.

Tinted lenses are not available in hard glass.

We would point out that glare protection filters with tinting of >20% are not suitable for twilight and night-time use.

Prescription safety spectacles

Focus types

Focus type	Version	Parameter for centering of the lenses		
Description		Specific height Box measure		
Single vision				
<ul style="list-style-type: none"> – Correction of visual defect in far, in-between or near distance 		<ul style="list-style-type: none"> – From ca. + 3,5 dpt. aspherical design recommended 	Measure from ca. +/- 3,0 dpt. recommended	
Certified prescription range				
Nahcomfort Standard / Nahcomfort Optima				
<ul style="list-style-type: none"> – Extended area for near and in-between distance – suitable for working distance from 40 cm. to approx. 3 m – Middle part of the lens adjusted to a working distance from 60 to 80 cm – Three versions available referring to prescription for reading distance (Addition) – Respectively Age of the wearer 		Nahcomfort Type A <ul style="list-style-type: none"> – Degression 0.75 dpt. – Optional Age < 50 years 	min. 16 mm	
	Nahcomfort Standard		Nahcomfort Type B <ul style="list-style-type: none"> – Degression 1.25 dpt. – Optional Age 50 – 55 years 	min. 16 mm
	Nahcomfort Optima		Nahcomfort Type C <ul style="list-style-type: none"> – Degression 1.75 dpt. – Optional Age > 55 years 	min. 16 mm
Certified prescription range				
Bifocals				
<ul style="list-style-type: none"> – Correction of visual defect in far and reading distance – Visible segment for near distance – Steplike change from far distance to near distance at the edge of segment – Instantly well-tolerated, visible edge of segment supports orientation 		C 28 <ul style="list-style-type: none"> – Curved segment offers „softer“ change from far to near distance – Width of segment: 28 mm, curved 		
Certified prescription range				
Varifocals				
<ul style="list-style-type: none"> – Correction of visual defect in far, in-between and near distance – Gliding change from far distance to near distance (progressive canal) – The non-visible gliding zone corrects in-between distances 		Varifocal Standard <ul style="list-style-type: none"> – Standard area for far distance and near distance – Long, narrow canal of progression 	min. 22 mm	
		Varifocal Pro Work <ul style="list-style-type: none"> – Large area for far distance – Wide canal of progression – Optimized area for reading distance 	min. 19 mm	
		Varifocal Piccolo <ul style="list-style-type: none"> – Suitable for flat frames – Large area for far distance and near distance – Shortened canal of progression 	min. 16 mm	
		Varifocal Top One <ul style="list-style-type: none"> – Very comfortable, large long-distance and close-up field of vision – Wide canal of progression for added convenience – Minimal blur in peripheral vision 	min. 18 mm	
		Varifocal Optima <ul style="list-style-type: none"> – Individual adjusted multifocal lens of latest generation – Wide field of view for any distance – Improved design – Almost no blurred zones in periphery area 	min. 16 mm	
Certified prescription range				

Material						Extras, optional				
CR 39	HI 1.6	Plastic			Silicate	Normal AR	Multi AR	Super AR	Tint	Variomatic
		HI 1.67	PC	Trivex	Hard glass					
✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	incl. hard coating recommended from +/- 4,0 dpt.	incl. hard coating only available with SET recommended from +/- 6,0 dpt.	incl. hard coating	incl. hard coating						only Polycarbonate or Trivex
+ 6,0 to - 8,0 dpt. at maximum value cyl. 4,0 dpt.	+ 6,0 to - 8,0 dpt. at maximum value cyl. 4,0 dpt.	+ 8,0 to - 12,0 dpt. at maximum value cyl. 3,0 dpt.	+ 6,0 to - 8,0 dpt. at maximum value cyl. 4,0 dpt.	+ 8,0 to - 10,0 dpt. at maximum value cyl. 4,0 dpt.	+ 6,0 to - 6,0 dpt. at maximum value cyl. 2,0 dpt.					+ 6,0 to - 8,0 dpt. at maximum value cyl. 3,0 dpt.
Standard/ Optima	only Optima	only Optima	only Standard	-	only Standard	✓	✓	✓	-	-
Standard/ Optima	only Optima	only Optima	only Standard	-	only Standard	✓	✓	✓	-	-
Standard/ Optima	only Optima	only Optima	only Standard	-	only Standard	✓	✓	✓	-	-
+ 4,0 to - 6,0 dpt. at maximum value cyl. 2,0 dpt.	+ 4,0 to - 6,0 dpt. at maximum value cyl. 2,0 dpt.	+ 4,0 to - 6,0 dpt. at maximum value cyl. 2,0 dpt.	+ 4,0 to - 6,0 dpt. at maximum value cyl. 2,0 dpt.	-	+ 4,0 to - 6,0 dpt. at maximum value cyl. 2,0 dpt.					
✓	✓	-	✓	-	✓	✓	✓	✓	✓	-
+ 6,0 to - 6,0 dpt. at maximum value cyl. 4,0 dpt. Add. 3,0	-	+ 8,0 to - 12,0 dpt. at maximum value cyl. 3,0 dpt. Add. 3,0	+ 6,0 to - 8,0 dpt. at maximum value cyl. 4,0 dpt. Add. 3,0	-	+ 6,0 to - 6,0 dpt. at maximum value cyl. 2,0 dpt. Add. 3,0					
✓	✓	✓	✓	-	✓	✓	✓	✓	✓	only Polycarbonate
✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	only Polycarbonate or Trivex
✓	✓	✓	✓	-	✓	✓	✓	✓	✓	only Polycarbonate
✓	✓	✓	✓	-	✓	✓	✓	✓	✓	only Polycarbonate
✓	✓	✓	✓	✓	-	✓	✓	✓	✓	only Polycarbonate or Trivex
+ 8,0 to - 10,0 dpt. at maximum value cyl. 4,0 dpt. Add. 3,0	+ 8,0 to - 10,0 dpt. at maximum value cyl. 4,0 dpt. Add. 3,0	+ 8,0 to - 12,0 dpt. at maximum value cyl. 4,0 dpt. Add. 3,0	+ 6,0 to - 8,0 dpt. at maximum value cyl. 4,0 dpt. Add. 3,0	+ 8,0 to - 10,0 dpt. at maximum value cyl. 4,0 dpt. Add. 3,0	+ 6,0 to - 6,0 dpt. at maximum value cyl. 2,0 dpt. Add. 3,0					+ 7,0 to - 8,0 dpt. at maximum value cyl. 3,0 dpt. Add. 3,0

Prescription safety spectacles

Special lenses

High-index plastic lenses

High-index plastic lenses have a higher specific index than CR 39 lenses. The higher specific index creates a stronger deflection of light on the lens surface, making it possible to create thinner lenses.

The specific index indicates the optical density of a lens material. The higher the lens density, the slower the light passes through the material resulting in greater deflection of light. Lenses with a high specific index therefore have a higher refractive power.

High-index plastic lenses are recommended for approx. ± 4.0 dpt. and upwards.

For single vision and varifocals, plastic lens materials with an index of HI 1.6 and HI 1.67 are available.

HI lenses come with a scratch-resistant coating.

Aspheric lenses

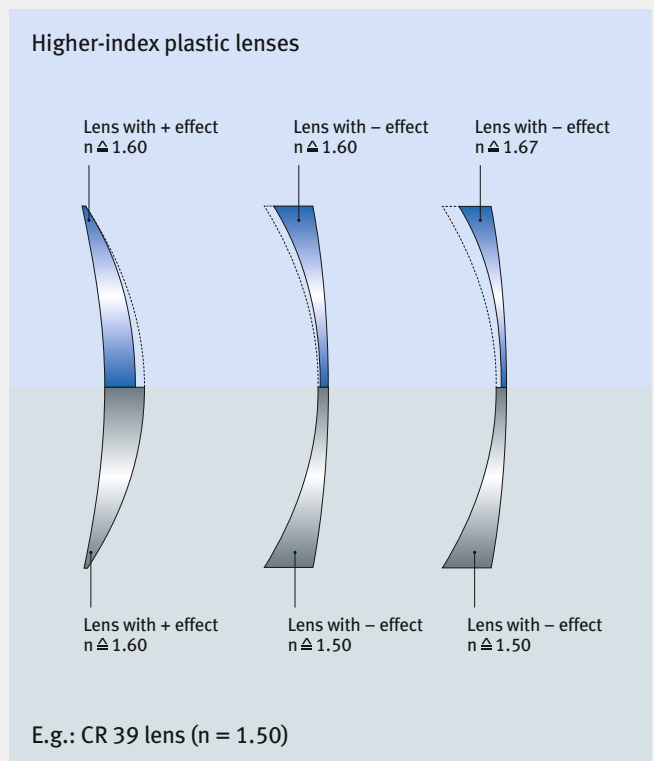
The concave design of aspheric lenses is not consistent, but flattens towards the edges. The geometry of aspheric plastic lenses has been optimised, making them thinner and lighter and less cambered than standard lenses.

Aspheric plastic lenses are recommended for approx. $+ 3.50$ dpt. and upwards.

UV 400 – Coating

The surface of plastic lenses is coated with a special substance which absorbs up to 400 nm of radiation transmitted. Consequently, these lenses afford up to 100% UV-A, UV-B and UV-C radiation protection. The coating is therefore suitable for protective lenses for applications such as dermatological PUVA treatment.

The coating is available for CR 39 lenses and may be combined with an anti-reflective coating. However, it cannot be combined with scratch-proof coatings.



Didymium lenses

Didymium lenses have the special property that they absorb the yellow sodium line at 589 nm, which is why they are mainly used in glass blowing applications.

When glass is heated, it releases a yellow sodium line in the form of a pale yellow flame which obscures the piece being worked on. Didymium lenses filter this out, making the glass object visible while it is being heated in the flame.

However, if infrared protection is required, then didymium lenses are not suitable, as their level of IR permeability is markedly above 80%.

Didymium lenses are available in single-vision models of up to maximum ± 4.0 dpt. As these are specially produced on request, they may require a longer delivery time.

Didymium lenses are not tested and certified according to EN 166 and are not labelled accordingly.

uvex academy

Prescription safety eyewear



A practical introductory seminar on eye protection with corrective lenses.

- Information on legal requirements, testing requirements and standards
- Information on prescription safety glasses
- Explanation of the different types of glass used to make lenses and the different materials used for the frames, and their characteristics and special features
- Explanation of different lens strengths and their optimal use
- Risk assessment of each workplace and advice on choosing the correct prescription safety glasses
- How to determine what adjustments need to be made to prescription glasses
- Practical demonstration on how to choose and adjust prescription safety glasses and provide advice
- Advice on handling and caring for prescription safety eyewear

Target group

Those responsible for the work-related health and safety of employees within a company and adjusting prescription safety glasses, e.g. health and safety officers, company doctors and their support staff.



For more information or to book a place, please visit uvex-academy.de, call +49 (0)911 9736 1710 or email academy@uvex.de



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