



uvex

Prescription Safety Eyewear

2019

protecting people

SBU Occupational Health

uvex – a competent partner

Optics



Individual eye protection from uvex

Prescription safety spectacles protect the eyes, and improve the wearer's vision. uvex offers individual prescription safety spectacles for all areas of application.

- Prescription safety spectacles certified in accordance with EN 166
- A wide selection of focus types and lens materials to meet all requirements
- An extremely wide range of frames, cater for all employee facial shapes
- Qualified advice and individual adjustment from opticians

Technological expertise



RX are produced locally

The individual PPE eyewear range from uvex provides exceptional quality and the latest technology. uvex innovations continue to set new standards in industrial health and safety.

- uvex's prescription safety eyewear is recognised for its exceptional wearer comfort, stylistic designs and sophisticated functionality.

Advisory expertise



Well-rounded professional expertise

Individual PPE products demand competent advisory expertise to guarantee the right solution and fit. For this reason, adjustments are carried out by qualified professionals.

Upon request, uvex can provide seminars for professional individuals (e.g. company doctors or occupational nurses) within companies to provide them with a level of knowledge about the adjustment of PPE products.

- Prescription PPE products for all employees
- Certified products create legal certainty
- Adjustments carried out by qualified specialists
- uvex academy: seminars/safety days



The virtual companion for prescription safety spectacles

Optimal selection of products – conveniently on the iPad.

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.

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.



Realistic perspective

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



www.uvex-safety.com/uvex_app/uvex-rx



View everything

The uvex RX app makes product selection easier.

Prescription safety spectacles

Basic collection plastic frames



5503 7415 54/17

5503 1300 50/17
5503 1300 54/17



5504 1525 55/20

5504 1300 55/20

uvex RX 5503

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

uvex RX 5503			
Art. no.	6109219	6109203	6109204
Ref. no.	5503 1300 50/17	5503 1300 54/17	5503 7415 54/17
Lens diameter	50 mm	54 mm	54 mm
Bridge width	17 mm	17 mm	17 mm
Colour	anthracite	anthracite	green, grey
Extras			metal arms with sprung hinges

uvex RX 5504

- plastic frames with oval-shaped lenses
- transparent side shields with integrated brow guard
- good fit with anatomically shaped nose bridge

uvex RX 5504		
Art. no.	6109206	6109207
Ref. no.	5504 1300 55/20	5504 1525 55/20
Lens diameter	55 mm	55 mm
Bridge width	20 mm	20 mm
Colour	anthracite	grey, translucent
Extras		metal arms with sprung hinges



5511 3000 49/20



5511 1500 49/20

uvex RX 5511

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

uvex RX 5511		
Art. no.	6108216	6108217
Ref. no.	5511 3000 49/20	5511 1500 49/20
Lens diameter	49 mm	49 mm
Bridge width	20 mm	20 mm
Colour	blue	grey
Extras	metal arms	metal arms

previously: uvex 9137 ceramic

Prescription safety spectacles

Basic collection plastic frames



5502 1725 56/15

5502 3525 56/15



5506 1725 56/18

uvex RX 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 pieces

uvex RX 5502		
Art. no.	6108215	6108202
Ref. no.	5502 1725 56/15	5502 3525 56/15
Lens diameter	56 mm	56 mm
Bridge width	15 mm	15 mm
Colour	grey	light blue

uvex RX 5506

- comfortable plastic frame
- side shields and integrated brow guard frame design
- good fit with anatomically shaped nose bridge

uvex RX 5506	
Art. no.	6109210
Ref. no.	5506 1725 56/18
Lens diameter	56 mm
Bridge width	18 mm
Colour	light grey, translucent

previously: uvex 9134 meteor

Prescription safety spectacles

Basic collection metal frames



5105 1800 50/20



5106 1400 50/20
5106 1400 52/20

uvex RX 5105

- metal frame with flat profile
- transparent side shields
- anatomically adjustable nose bridge and easily adjustable earpieces deliver exceptional fit

uvex RX 5105	
Art. no.	6109107
Ref. no.	5105 1800 50/20
Lens diameter	50 mm
Bridge width	20 mm
Colour	silver

previously: uvex 9253 silverstar

uvex RX 5106

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

uvex RX 5106		
Art. no.	6109108	6109109
Ref. no.	5106 1400 50/20	5106 1400 52/20
Lens diameter	50 mm	52 mm
Bridge width	20 mm	20 mm
Colour	gunmetal, matt	gunmetal, matt

previously: uvex 9254 greystar



5107 6200 47/20
5107 6200 49/20



5108 3400 54/19
5108 3400 56/19

uvex RX 5107

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

uvex RX 5107		
Art. no.	6109110	6109111
Ref. no.	5107 6200 47/20	5107 6200 49/20
Lens diameter	47 mm	49 mm
Bridge width	20 mm	20 mm
Colour	antique gold	antique gold

previously: uvex 9154 starlet

uvex RX 5108

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

uvex RX 5108		
Art. no.	6109112	6109113
Ref. no.	5108 3400 54/19	5108 3400 56/19
Lens diameter	54 mm	56 mm
Bridge width	19 mm	19 mm
Colour	steel blue	steel blue

previously: uvex 9155 mercury

Prescription safety spectacles

Basic collection metal frames



5102 1400 51/20
5102 1400 53/20

uvex RX 5102

- fashionable, aviator-style metal frame
- transparent side shields
- anatomically adjustable nose bridge and easily adjustable earpieces deliver exceptional fit

uvex RX 5102		
Art. no.	6109100	6109101
Ref. no.	5102 1400 51/20	5102 1400 53/20
Lens diameter	51 mm	53 mm
Bridge width	20 mm	20 mm
Colour	gunmetal, matt	gunmetal, matt

previously: uvex 9256 pilot



5103 1400 53/17
5103 1400 55/17

uvex RX 5103

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

uvex RX 5103		
Art. no.	6109104	6109105
Ref. no.	5103 1400 53/17	5103 1400 55/17
Lens diameter	53 mm	55 mm
Bridge width	17 mm	17 mm
Colour	gunmetal, matt	gunmetal, matt



5101 1018 54/17
5101 1018 56/17

uvex RX 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

uvex RX 5101		
Art. no.	6109102	6109103
Ref. no.	5101 1018 54/17	5101 1018 56/17
Lens diameter	54 mm	56 mm
Bridge width	17 mm	17 mm
Colour	black, silver	black, silver



5104 6054 56/21

uvex RX 5104

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

uvex RX 5104		
Art. no.	6109106	
Ref. no.	5104 6054 56/21	
Lens diameter	56 mm	
Bridge width	21 mm	
Colour	gold, havanna	

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^3 , titanium is approximately half the weight of stainless steel.

- ▶ Extremely stable
- ▶ Low weight
- ▶ Allergy neutral
- ▶ Suitable for cold forming
- ▶ Provides excellent wearer comfort



Prescription safety spectacles



uvex RX ti



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

uvex RX ti 5900	
Art. no.	6109400
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

uvex RX ti 5901	
Art. no.	6109401
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

uvex RX ti 5902	
Art. no.	6109402
Ref. no.	5902 1600 52/19
Lens diameter	52 mm
Bridge width	19 mm
Colour	titanium blue

previously: uvex RX ti 9248

Prescription safety spectacles

uvex 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.

Prescription safety spectacles



uvex RX cb



6109232

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

uvex RX cb 5580	
Art. no.	6109232
Ref. no.	5580 3015 57/14
Lens	57 mm
Bridge width	14 mm
Colour	dark blue, grey



6109233

uvex RX cb 5581


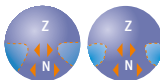








- plastic frame with extra wide temple width
- frame design with side shields and integrated brow guard
- easily adjustable, soft-form ear pieces for extra comfort
- ideal for individuals with a flat nose bridge, high cheekbones and/or wide temples.
- tested for use with Asian headform 2M, DIS ISO 18526-4:2018

uvex RX cb 5581	
Art. no.	6109233
Ref. no.	5581 1542 58/14
Lens	58 mm
Bridge width	14 mm
Colour	grey, dark red



Prescription safety spectacles

Lens options for plastic and metal frames in uvex basic collection models · uvex RX ti · uvex RX cb

Focus type		Lens type	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 		Single vision, Single vision HD	Single vision HD ≥ centre of lens
Certified prescription range			
Comfort lenses			
Nahcomfort <ul style="list-style-type: none"> – Version with expanded near vision – Ideal for workplace environments of 30 cm to approx. 2 m 		Nahcomfort Standard, Nahcomfort Optima Versions see page 32	min. 17 mm
Distanzcomfort <ul style="list-style-type: none"> – Calculation of the individual correction for defined distances (1 m, 2 m or 4 m) 		Distanzcomfort Optima	min. 17 mm
Single vision Relax <ul style="list-style-type: none"> – To accommodate the prescription for the lower part of the lens, the prescription is increased by +0.5 of a diopter 		Single vision Relax	min. 17 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 		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. 23 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. 20 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. 17 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. 19 mm
		Varifocal Optima, Varifocal Optima HD <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 >> Version HD see page 32 	Optima min. 17 mm Optima HD min. 16 mm (depending on the corridor length)
Certified prescription range			

► The overview shows the maximum prescription range which is approved and certified.
Depending on the size of the frame and the lens material, further restrictions may apply.



	Material						Extras, optional					
	CR 39	HI 1.6	Plastic HI 1.67	PC	Trivex	Silicate Hard glass	Normal AR	Multi AR	Super AR	UV blue protect	Tint	Variomatic brown
	■	■	■	■	■	HD not available	■	■	■	■	■	■
		incl. hard coating recommended from +/- 4.0 dpt.	incl. hard coating only available with SAR recommended from +/- 6.0 dpt.	incl. hard coating	incl. hard coating only available with SAR		only single vision	only single vision, not for hard glass	■	only HI 1.67 or PC		only Polycarbonate or Trivex
	+10.0 to -10.0 dpt. at maximum value cyl. ± 8.0 dpt.	+12.0 to -13.0 dpt. at maximum value cyl. ± 8.0 dpt.	+13.0 to -14.5 dpt. at maximum value cyl. ± 8.0 dpt.	+9.5 to -12.0 dpt. at maximum value cyl. ± 8.0 dpt.	+8.0 to -11.0 dpt. at maximum value cyl. ± 7.0 dpt.	+7.0 to -6.0 dpt. at maximum value cyl. ± 4.0 dpt.						+7.5 to -8.5 dpt. at maximum value cyl. ± 6.0 dpt.
	Standard/ Optima	only Optima	only Optima	Standard/ Optima	only Optima	—	■	not for hard glass	■	only HI 1.67 or PC	—	—
	■	■	■	■	■	—	■	not for hard glass	■	only HI 1.67 or PC	—	—
	■	■	■	■	■	—	■	not for hard glass	■	only HI 1.67 or PC	—	—
	+9.0 to -7.5 dpt. at maximum value cyl. ± 6.0 dpt.	+8.0 to -8.0 dpt. at maximum value cyl. ± 6.0 dpt.	+9.0 to -10.0 dpt. at maximum value cyl. ± 6.0 dpt.	+9.0 to -4.5 dpt. at maximum value cyl. ± 6.0 dpt.	+7.0 to -6.0 dpt. at maximum value cyl. ± 4.0 dpt.	+6.0 to -4.5 dpt. at maximum value cyl. ± 4.0 dpt.						
	■	■	—	■	—	■	■	not for hard glass	■	—	■	—
	+7.0 to -8.0 dpt. at maximum value cyl. ± 6.0 dpt. Add. +3.0	+8.5 to -10.5 dpt. at maximum value cyl. ± 8.0 dpt. Add. +3.0		+10.0 to -10.0 dpt. at maximum value cyl. ± 6.0 dpt. Add. +3.0		+6.0 to -6.0 dpt. at maximum value cyl. ± 4.0 dpt. Add. +3.0						
	■	■	■	■	—	■	■	not for hard glass	■	—	■	only Polycarbonate
	■	■	■	■	■	■	■	not for hard glass	■	only HI 1.67 or PC	■	only Polycarbonate or Trivex
	■	■	■	■	—	■	■	—	■	—	■	only Polycarbonate
	■	■	■	■	—	■	■	not for hard glass	■	only HI 1.67 or PC	■	only Polycarbonate
	■	■	■	■	■	—	only Optima	only Optima not for hard glass	■	only HI 1.67 or PC	■	only Polycarbonate or Trivex
	+6.0 to -10.0 dpt. at maximum value cyl. ± 6.0 dpt. Add. +3.0	+9.5 to -12.0 dpt. at maximum value cyl. ± 6.0 dpt. Add. +3.0	+10.0 to -12.0 dpt. at maximum value cyl. ± 6.0 dpt. Add. +3.0	+9.5 to -10.0 dpt. at maximum value cyl. ± 6.0 dpt. Add. +3.0	+6.0 to -13.0 dpt. at maximum value cyl. ± 6.0 dpt. Add. +3.0	+6.0 to -6.0 dpt. at maximum value cyl. ± 4.0 dpt. Add. +3.0						+7.5 to -10.0 dpt. at maximum value cyl. ± 6.0 dpt. Add. +3.0

Prescription safety spectacles

uvex RX cd



5505 2900 55/19
5505 2900 57/19



5505 2126 55/19
5505 2126 57/19

uvex RX 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 soft-form comfort ear pieces

uvex RX cd 5505				
Art. no.	6109208	6109209	6109214	6109215
Ref. no.	5505 2900 55/19	5505 2900 57/19	5505 2126 55/19	5505 2126 57/19
Lens diameter	55 mm	57 mm	55 mm	57 mm
Bridge width	19 mm	19 mm	19 mm	19 mm
Colour	transparent	transparent	crystal, matt	crystal, matt

► Please note the glazing options for uvex RX cd on page 22/23



5505 seal 55/19
5505 seal 57/19



5505 2126 55/19 with 5505 seal 57/19



5505 2900 57/19 with 5505 seal 55/19

uvex RX cd 5505 seal

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

uvex RX cd 5505 seal		
Art. no.	6118000	6118001
Ref. no.	5505 seal 55/19	5505 seal 57/19
Lens diameter	55 mm	57 mm
Bridge width	19 mm	19 mm
Colour	black	black
Compatible with	Art. no. 6108208	Art. no. 6108209
	Art. no. 6109208	Art. no. 6109209
	Art. no. 6109214	Art. no. 6109215

Prescription safety spectacles

Special models · uvex RX cd



5505 9020 55/19
5505 9020 57/19

uvex RX cd 5505 plan PC SAR

- plastic frame with polycarbonate lenses for users who do not require a prescription
- non-prescription lenses with super anti-reflective coating – to minimise reflections on surfaces

uvex RX cd 5505 plan PC SAR		
Art. no.	6108208	6108209
Ref. no.	5505 9020 55/19	5505 9020 57/19
Lens diameter	55 mm	57 mm
Bridge width	19 mm	19 mm
Colour	crystal, matt	crystal, matt
Configuration	flat polycarbonate lenses	flat polycarbonate lenses
	HC, SAR	HC, SAR



5505 9905 55/19
5505 9905 57/19

uvex RX cd 5505 flip-up

- 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

uvex RX cd 5505 flip-up		
Art. no.	6109218	6109235
Ref. no.	5505 9905 55/19	5505 9905 57/19
Lens	55 mm	57 mm
Bridge width	19 mm	19 mm
Colour	black, green	black, green
Lens (flip-up)	PC grey, welding protection 5	PC grey, welding protection 5
	uvex infraradur plus	uvex infraradur plus

► Please note the glazing options for uvex RX cd on page 22/23

Prescription safety spectacles

uvex RX cd



5518 1333 54/22



5518 1341 54/22



5518 5074 54/22

uvex RX cd 5518

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

uvex RX cd 5518			
Art. no.	6109230*	6109231*	6109234*
Ref. no.	5518 1341 54/22	5518 5074 54/22	5518 1333 54/22
Lens diameter	54 mm	54 mm	54 mm
Bridge width	22 mm	22 mm	22 mm
Colour	anthracite, red	dark brown, green	anthracite, blue

► Please note the glazing options for uvex RX cd on page 22/23

* These 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.



Prescription safety spectacles

uvex RX cd



5514 1033 53/18



5514 1045 55/18

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

uvex RX cd 5514		
Art. no.	6109225*	6109226*
Ref. no.	5514 1033 53/18	5514 1045 55/18
Lens diameter	53 mm	55 mm
Bridge width	18 mm	18 mm
Colour	black, blue	black, red

► Please note the glazing options for uvex RX cd on page 22/23



5515 1347 51/17



5515 1371 53/17



5515 1342 57/17

uvex RX cd 5515

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

uvex RX cd 5515			
Art. no.	6109227	6109228*	6109229*
Ref. no.	5515 1347 51/17	5515 1371 53/17	5515 1342 57/17
Lens diameter	51 mm	53 mm	57 mm
Bridge width	17 mm	17 mm	17 mm
Colour	anthracite, coral	anthracite, petrol	anthracite, dark red

► Please note the glazing options for uvex RX cd on page 22/23

Prescription safety spectacles












Lens options for uvex RX cd



uvex RX cd 5505



uvex RX cd 5505 flip-up

					Lens type	Parameter for centering of the lenses	
Description						Specific height	Box measure
Single vision							
					Single vision, Single vision HD	Single vision HD min. centre of lens	
Prescription range							
Comfort lenses							
					Nahcomfort Standard, Nahcomfort Optima Versions see page 32	min. 17 mm	
Nahcomfort Standard	Nahcomfort Optima	Distanzcomfort Optima	Single vision Relax		Distanzcomfort Optima	min. 17 mm	
					Single vision Relax	min. 17 mm	
Prescription range							
Bifocals							
					Width of segment: 28 mm, curved		
Prescription range							
Varifocals							
					Varifocal Standard	min. 23 mm	
Varifocal Standard	Varifocal Pro Work	Varifocal Piccolo	Varifocal Top One	Varifocal Optima	Varifocal Pro Work	min. 20 mm	
					Varifocal Optima HD	Varifocal Piccolo	min. 17 mm
						Varifocal Top One	min. 19 mm
						Varifocal Optima	min. 17 mm
						Varifocal Optima HD	min. 16 mm (depending on the corridor length)
Prescription range							

- In order to ensure optimum vision, uvex compensate the values in accordance to the frame wrap angle (FWA).
The overview below provides information on the lens options for uvex RX cd frames.
Please also ensure the frame fits correctly.



uvex RX cd 5514



uvex RX cd 5515

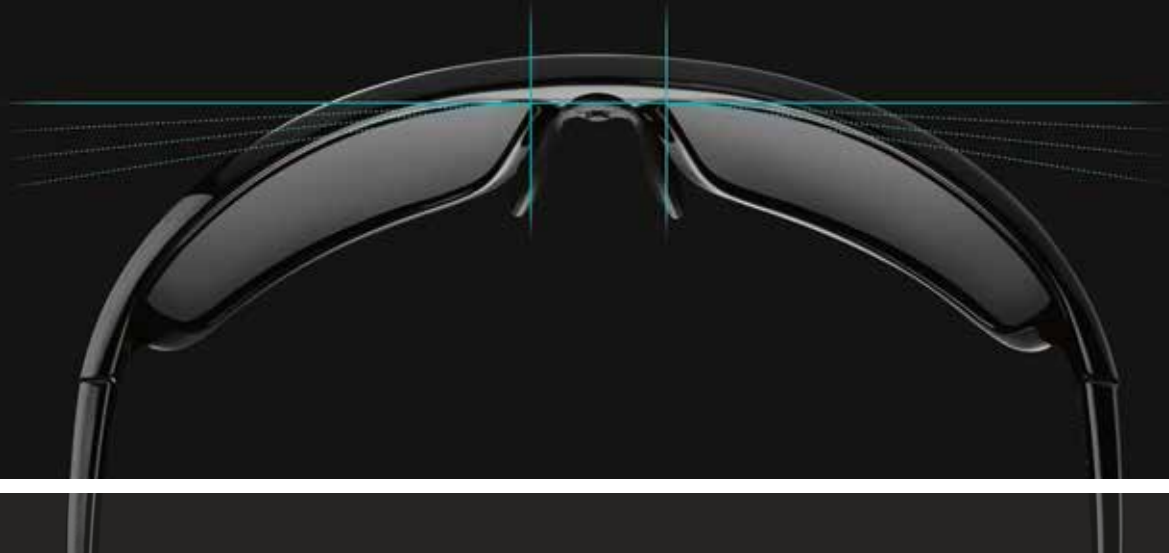


uvex RX cd 5518

	Material					Extras, optional					
	Plastic					Normal AR	Multi AR	Super AR	UV blue protect	Tinting	Variomatic brown
	CR 39	HI 1.6	HI 1.67	PC	Trivex						
	■	■	■	■	■	■	■	■	■	■	■
		incl. hard coating	incl. hard coating only available with SAR	incl. hard coating	incl. hard coating only available with SAR	only single vision	only single vision		only HI 1.67 or PC		only Polycarbonate or Trivex
	+6.0 to -6.0 dpt. at maximum value cyl. ±4.0 dpt.	+6.0 to -6.0 dpt. at maximum value cyl. ±4.0 dpt.	+6.0 to -6.0 dpt. at maximum value cyl. ±4.0 dpt.	+6.0 to -6.0 dpt. at maximum value cyl. ±4.0 dpt.	+6.0 to -6.0 dpt. at maximum value cyl. ±4.0 dpt.						+6.0 to -6.0 dpt. at maximum value cyl. ±4.0 dpt.
	Standard/Optima	only Optima	only Optima	Standard/Optima	only Optima	■	■	■	only Optima, HI 1.67 or PC	—	—
	■	■	■	■	■	■	■	■	only HI 1.67 or PC	—	—
	■	■	■	■	■	■	■	■	only HI 1.67 or PC	—	—
	+6.0 to -6.0 dpt. at maximum value cyl. ±4.0 dpt.	+6.0 to -6.0 dpt. at maximum value cyl. ±4.0 dpt.	+6.0 to -6.0 dpt. at maximum value cyl. ±4.0 dpt.	+6.0 to -6.0 dpt. at maximum value cyl. ±4.0 dpt.	+6.0 to -6.0 dpt. at maximum value cyl. ±4.0 dpt.						
	■	■	—	■	—	■	■	■	—	■	—
	+6.0 to -6.0 dpt. at maximum value cyl. ±4.0 dpt.	+6.0 to -6.0 dpt. at maximum value cyl. ±4.0 dpt.		+6.0 to -6.0 dpt. at maximum value cyl. ±4.0 dpt.							
	■	■	■	■	—	■	■	■	—	■	only Polycarbonate
	■	■	■	■	■	■	■	■	only, HI 1.67 or PC	■	only Polycarbonate or Trivex
	■	■	■	■	—	■	—	■	—	■	only Polycarbonate
	■	■	■	■	—	■	■	■	only, HI 1.67 or PC	■	only Polycarbonate
	■	■	■	■	■	■	■	■	only, HI 1.67 or PC	■	only Polycarbonate or Trivex
	■	■	■	■	■	only Optima	only Optima	■	only, HI 1.67 or PC	■	only Polycarbonate or Trivex
	+6.0 to -6.0 dpt. at maximum value cyl. ±4.0 dpt.	+6.0 to -6.0 dpt. at maximum value cyl. ±4.0 dpt.	+6.0 to -6.0 dpt. at maximum value cyl. ±4.0 dpt.	+6.0 to -6.0 dpt. at maximum value cyl. ±4.0 dpt.	+6.0 to -6.0 dpt. at maximum value cyl. ±4.0 dpt.						+6.0 to -6.0 dpt. at maximum value cyl. ±4.0 dpt.

uvex RX sp

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 tilted position of the lenses. This will be considered for the glazing process.

uvex HD lenses

uvex HD lenses – maximum individuality

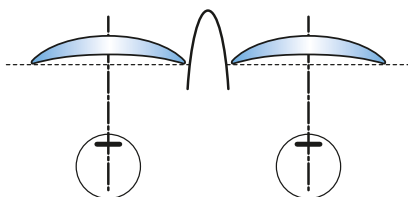
A number of individual parameters are taken into account in the manufacture of uvex HD lenses:

- 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

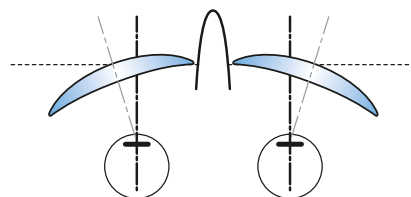
Special programs have been developed to map thousands of individual points on the inside of the lenses. The results are directly incorporated into the customised uvex optima HD lenses.

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.



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.

Prescription safety spectacles



uvex RX sp



5512 5573 65/16



5512 1348 65/16

uvex RX sp 5512

- sporty, plastic “wraparound” design with curved lenses and anatomic sport glazing
- 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

uvex RX sp 5512		
Art. no.	6109220	6109221
Ref. no.	5512 5573 65/16	5512 1348 65/16
Lens diameter	65 mm	65 mm
Bridge width	16 mm	16 mm
Colour	brown, olive	anthracite, orange

uvex tight-fit-kit		
Art. no.	6118004	6118005
Design	uvex tight-fit-kit for uvex RX sp 5512	uvex tight-fit-kit for uvex RX sp 5512
Colour	brown, olive	anthracite, orange

► Please note the glazing options for uvex RX sp on page 28/29



6118004



5512 5573 65/16 assembled
with uvex tight-fit-kit 6118004



6118005



5512 1348 65/16 assembled
with uvex tight-fit-kit 6118005



5513 1577 62/16

uvex RX sp 5513

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

uvex RX sp 5513	
Art. no.	6109222
Ref. no.	5513 1577 62/16
Lens diameter	62 mm
Bridge width	16 mm
Colour	grey, light green

► Please note the glazing options for uvex RX sp on pages 28/29

Prescription safety spectacles

uvex RX sp



5519 5573 56/21



5519 1371 56/21



5510 1217 62/17



5510 1248 62/17

uvex RX sp 5519

- plastic frame with sporty wrap-around design
- anatomically shaped, soft nose bridge
- side shields and integrated brow guard frame design
- specially-shaped frame edge provides protection against particles from below
- easily adjustable soft-form comfort ear pieces

uvex RX sp 5519		
Art. no.	6109223	6109224
Ref. no.	5519 5573 56/21	5519 1371 56/21
Lens diameter	56 mm	56 mm
Bridge width	21 mm	21 mm
Colour	brown, olive	anthracite, petrol

► Please note the glazing options for uvex RX sp on pages 28/29

uvex RX sp 5510

- sporty, plastic "wraparound" design with curved lenses and anatomic sport glazing
- 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

uvex RX sp 5510		
Art. no.	6109216	6109217
Ref. no.	5510 1217 62/17	5510 1248 62/17
Lens diameter	62 mm	62 mm
Bridge width	17 mm	17 mm
Colour	matt black, light grey	matt black, orange

► Please note the glazing options for uvex RX sp on pages 28/29

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 anti-reflective 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

uvex RX goggle	
Art. no.	6109500
Ref. no.	9500 1379 61/14
Lens	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 28/29

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**:



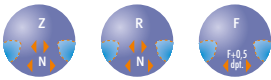
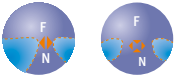


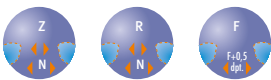
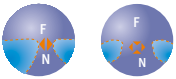


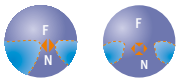
Workplaces with high risk of chemical hazards, such as laboratories and those handling small quantities of chemicals.

► Mechanical strength "F", 45 m/s

For further information on lens materials and models, information can be found on page 32/33

Prescription safety spectacles

Lens options for uvex RX sp models · Special lenses for uvex RX goggle

uvex RX sp 5519, uvex RX sp 5510		Important note	Lens type	Parameter for centering of the lenses	
	Description			Specific height Box measure	
	Single vision				
		for uvex RX sp 5510: Minimum PD ≥ 32.0 mm Fitting height ≥ centre of lens	Single vision Single vision HD		
	Comfort lenses				
		for uvex RX sp 5510: Minimum PD ≥ 32.0 mm Fitting height ≥ centre of lens	Nahcomfort Optima	min. 17 mm	
	Nahcomfort Optima		Distanzcomfort Optima	min. 17 mm	
	Single vision Relax		Single vision Relax	min. 17 mm	
	Varifocals				
		for uvex RX sp 5510: Minimum PD ≥ 32.0 mm Fitting height ≥ centre of lens	Varifocal Pro Work	min. 20 mm	
	Varifocal Pro Work		Varifocal Optima	min. 17 mm	
	Varifocal Optima Varifocal Optima HD		Varifocal Optima HD	min. 16 mm	
	Prescription range				
uvex RX sp 5512, uvex RX sp 5513		Important note	Lens type	Parameter for centering of the lenses	
	Description			Specific height Box measure	
	Single vision				
		Minimum PD ≥ 32.0 mm Fitting height ≥ centre of lens	Single vision Single vision HD		
	Comfort lenses				
		Minimum PD ≥ 32.0 mm Fitting height ≥ centre of lens	Nahcomfort Optima	min. 17 mm	
	Nahcomfort Optima		Distanzcomfort Optima	min. 17 mm	
	Single vision Relax		Single vision Relax	min. 17 mm	
	Varifocals				
		Minimum PD ≥ 32.0 mm Fitting height ≥ centre of lens	Varifocal Pro Work	min. 20 mm	
	Varifocal Pro Work		Varifocal Optima	min. 17 mm	
	Varifocal Optima Varifocal Optima HD		Varifocal Optima HD	min. 16 mm	
	Prescription range				
uvex RX goggle		Important note	Lens type	Parameter for centering of the lenses	
	Description			Specific height Box measure	
	Single vision				
		When using PC or PC+ Minimum PD ≥ 32.0 mm When using Trivex Minimum PD ≥ 34.0 mm	Single vision Single vision HD		
	Varifocals				
		When using PC or PC+ Minimum PD ≥ 32.0 mm When using Trivex Minimum PD ≥ 34.0 mm	Varifocal Pro Work	min. 20 mm	
	Varifocal Pro Work		Varifocal Optima	min. 17 mm	
	Varifocal Optima Varifocal Optima HD		Varifocal Optima HD	min. 16 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 and uvex RX goggle.
Please also ensure the frame fits correctly.



Material						Extras, optional					
CR 39	HI 1.6	Plastic HI 1.67	PC	Trivex		Normal AR	Multi AR	Super AR	UV blue protect	Tint	Variomatic brown
■	■	■	■	■		■	■	■	■	■	■
	incl. hard coating	incl. hard coating only available with SAR	incl. hard coating	incl. hard coating					only HI 1.67 or PC		only Polycarbonate or Trivex
■	■	■	■	—		■	■	■	only HI 1.67 or PC	—	—
■	■	■	■	—		■	■	■	only HI 1.67 or PC	—	—
■	■	■	■	—		■	■	■	only HI 1.67 or PC	—	—
■	■	■	■	■		■	■	■	only HI 1.67 or PC	■	only Polycarbonate or Trivex
■	■	■	■	■		■	■	■	only HI 1.67 or PC	■	only Polycarbonate or Trivex
■	■	■	■	■		■	■	■	only HI 1.67 or PC	■	only Polycarbonate or Trivex
+ 5.0 to – 5.0 dpt. at maximum value cyl. ±2.0 dpt.	+ 5.0 to – 5.0 dpt. at maximum value cyl. ±2.0 dpt.	+ 5.0 to – 5.0 dpt. at maximum value cyl. ±2.0 dpt.	+ 5.0 to – 5.0 dpt. at maximum value cyl. ±2.0 dpt.	+ 5.0 to – 5.0 dpt. at maximum value cyl. ±2.0 dpt.							+ 5.0 to – 5.0 dpt. at maximum value cyl. ±2.0 dpt.
■	■	■	■	■		■	■	■	■	■	■
	incl. hard coating	incl. hard coating only available with SAR	incl. hard coating	incl. hard coating					only HI 1.67 or PC		only Polycarbonate or Trivex
■	■	■	■	—		■	■	■	only HI 1.67 or PC	—	—
■	■	■	■	—		■	■	■	only HI 1.67 or PC	—	—
■	■	■	■	—		■	■	■	only HI 1.67 or PC	—	—
■	■	■	■	■		■	■	■	only HI 1.67 or PC	■	only Polycarbonate or Trivex
■	■	■	■	■		■	■	■	only HI 1.67 or PC	■	only Polycarbonate or Trivex
■	■	■	■	■		■	■	■	only HI 1.67 or PC	■	only Polycarbonate or Trivex
+ 3.5 to – 3.5 dpt. at maximum value cyl. ±2.0 dpt.	+ 3.5 to – 3.5 dpt. at maximum value cyl. ±2.0 dpt.	+ 3.5 to – 3.5 dpt. at maximum value cyl. ±2.0 dpt.	+ 3.5 to – 3.5 dpt. at maximum value cyl. ±2.0 dpt.	+ 3.5 to – 3.5 dpt. at maximum value cyl. ±2.0 dpt.							+ 3.5 to – 3.5 dpt. at maximum value cyl. ±2.0 dpt.
Material						Extras, optional					
CR 39	HI 1.6	HI 1.67	PC	Trivex		Normal AR	Multi AR	Super AR	UV blue protect	Tint	Variomatic brown
—	—	—	■	■		■	■	■	■	■	■
			incl. hard coating	incl. hard coating only available with SAR					only HI 1.67 or PC		only Polycarbonate or Trivex
—	—	—	■	■		■	■	■	only HI 1.67 or PC	■	only Polycarbonate or Trivex
—	—	—	■	■		■	■	■	only HI 1.67 or PC	■	only Polycarbonate or Trivex
—	—	—	■	■		■	■	■	only HI 1.67 or PC	■	only Polycarbonate or Trivex
			+ 3.5 to – 3.5 dpt. at maximum value cyl. ±2.0 dpt.	+ 3.5 to – 3.5 dpt. at maximum value cyl. ±2.0 dpt.							+ 3.5 to – 3.5 dpt. at maximum value cyl. ±2.0 dpt.

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.



Rimless spectacles are extremely popular with many prescription spectacle wearers due to their light weight and an uninhibited field of vision. The uvex RX gravity zero collection was developed taking these characteristics into account.

Through special construction and the application of high-quality materials for the frame and lenses, uvex has succeeded in creating rimless spectacles which meet the standards for industrial eye protection.

The uvex RX gravity zero collection impresses with its 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).



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	+	not suitable
Highly refractive plastics HI 1.6/HI 1.67	1.33/1.4	1	S	++	++
CR-39, modified	1.3	1	S	++	not suitable
Hard glass	2.5	1	S	+++	not suitable

Prescription safety spectacles



uvex RX gravity zero



7101 1300 53/20



7102 1300 53/17

uvex RX gravity zero 7101

- rimless prescription safety spectacles
- fashionable aviator-style lenses
- transparent side shields
- anatomically adjustable, soft nose pads deliver exceptional fit
- arms with sprung hinges and easily adjustable earpieces

uvex RX gravity zero 7101	
Art. no.	6109300
Ref. no.	7101 1300 53/20
Lens	53 mm
Bridge width	20 mm
Colour	anthracite

uvex RX gravity zero 7102

- rimless prescription safety spectacles
- classic round lenses
- transparent side shields
- anatomically adjustable, soft nose pads deliver exceptional fit
- arms with sprung hinges and easily adjustable earpieces

uvex RX gravity zero 7102	
Art. no.	6109301
Ref. no.	7102 1300 53/17
Lens	53 mm
Bridge width	17 mm
Colour	anthracite



7103 1900 47/17



7104 1600 49/17

uvex RX gravity zero 7103

- rimless prescription safety spectacles
- small, oval-shaped lenses
- transparent side shields
- anatomically adjustable, soft nose pads deliver exceptional fit
- arms with sprung hinges and easily adjustable earpieces

uvex RX gravity zero 7103	
Art. no.	6109302
Ref. no.	7103 1900 47/17
Lens	47 mm
Bridge width	17 mm
Colour	silver, matt

uvex RX gravity zero 7104

- rimless prescription safety spectacles
- thin lenses
- transparent side shields
- anatomically adjustable, soft nose pads for exceptional fit
- arms with sprung hinges and easily adjustable earpieces

uvex RX gravity zero 7104	
Art. no.	6109303
Ref. no.	7104 1600 49/17
Lens	49 mm
Bridge width	17 mm
Colour	titanium

► Please note that the following limitations apply to lenses for uvex RX gravity zero:

- Correction range +4.0 to -6.0 dpt. at maximum value, cyl. +/-4.0 dpt.
- Only available in the following lens materials: HI 1.6, HI 1.67 and Trivex

► For maximum impact resistance, uvex recommends Trivex lens material is used
Also, please ensure the frame fits correctly.

Prescription safety spectacles

Focustypes

Single vision lenses

Single vision lenses correct long and short-sightedness.

Multi-focal lenses

In addition to correcting distance vision, multi-focal glasses correct long-sightedness and also correct intermediate distances, if applicable.

Multi-focal glasses are required when the eyes are no longer able to adjust easily due to the natural aging process. Small objects, just in front of the eye, are no longer clearly discerned (so-called age-related long-sightedness, presbyopia).

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 distances
- 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 at workstations and distance vision (> 5 m distance) is mainly not necessary.

Nahcomfort Standard, Nahcomfort Optima

- 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 80 cm.
- 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

Type A	Type B	Type C
Degression** 0.75 dpt	Degression** 1.25 dpt	Degression** 1.75 dpt
< 50 years	50 to 55 years	> 55 years

** Degression: correction reduced, based on the close-range value

Distanzcomfort Optima

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

- 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

Lens materials · Anti-reflective coating · Tinting



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 339)

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.

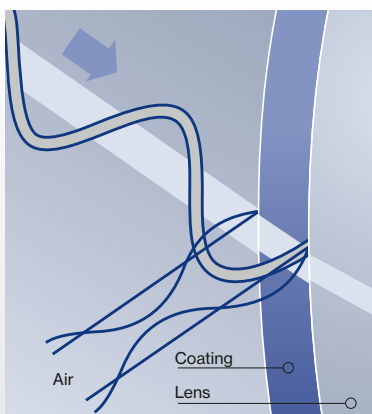
- mechanical strength, class "S" (falling ball test)
- highly scratch-resistant surface
- suitable for working with chemicals and paints/varnishes
- heavy weight, not recommended for prescription values greater than +/-4.0 dpt
- spark penetration when welding or grinding
- implosion with liquid metals

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.

3 qualities are available:

- Normal anti-reflective coating
- Multiple anti-reflective coating
- Super anti-reflective coating



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



Prescription safety spectacles

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 (Δ 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	Identification class: B

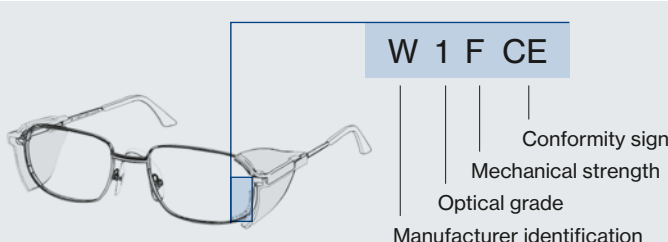
Additional requirements in accordance with EN 166 (extract)

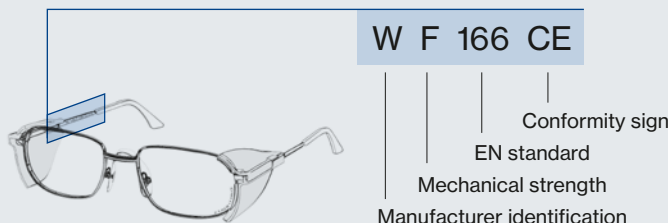
- Resistance to liquids (droplets and splashes)
Labelling: 3
- Resistance to coarse dust (grain size > 5 µm)
Labelling: 4

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 (for example, FT).

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.) B = Medium-energy impact (120 m/s)	

Frames marking			
Manufacturer identification	Mechanical strength	Applicable EN standard	
W = uvex	S = Increased robustness F = Low-energy impact (45 m/sec.) B = Medium-energy impact (120 m/s)	166	

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

uvex academy

Benefit from our knowledge

The uvex academy provides training in the fields of personal protective equipment (PPE) and health and safety at work.

All uvex academy training sessions are offered in-house or as company seminars. Seminars in accordance with your individual specifications can be developed on request.





uvex

CORRECTED. PROTECTED. PERFORM!

uvex sportstyle RX –
prescription sports eyewear

DURBAN

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protecting people