



Individual PPE

SBU Occupational Health

Individual personal protective equipment (PPE)

Individual personal protective equipment (PPE) from uvex. 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 for the whole team.

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. At uvex, innovation is not just a word: it is an intrinsic part of the corporate strategy. Many external awards confirm our continued commitment to this strategy for the future.

The investment in award winning designs, state-of-the-art materials and technologies allows uvex to deliver scientifically based product solutions which not only protect and are comfortable but have features which increase fit and therefore, wearer acceptance.

uvex - an exceptional partner.



Individual PPE from uvex – employee health is worth it.

- Individual eye, ear and foot protection
- Innovative technologies and solutions
- First-class, certified product quality
- Development and manufacturing in Germany
- Adjustments carried out by qualified specialists

Optics



Otoplastics



Orthopaedics



Individual eye protection from uvex

Prescription safety spectacles protect the eyes, and improve the wearer's vision. uvex offers individual prescription safety and VDU (visual display unit) 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

Individual hearing protection from uvex

Excessive noise in the workplace can lead to irreversible damage to hearing. Individually adapted uvex otoplastics fit perfectly, ensuring maximum wearer protection and comfort.

- Tailor-made hearing protection certified in accordance with EN 352
- A wide selection of filters, otoplastic shapes and materials ensures appropriate hearing protection is available for (virtually) all areas of application.
- Individual adjustments carried out by qualified specialists

Individual foot protection from uvex

Whether walking or standing still, safety footwear has to fit comfortably. uvex's orthopaedic foot protection is adapted to individual wearers' foot related medical conditions.

- Orthopaedic safety footwear certified in accordance with EN ISO 20345:2011
- For example, comfortable customised inserts and orthopaedic shoe adjustments
- A wide selection of suitable safety footwear
- Special footwear for extra wide feet and medical conditions (e.g. diabetes)
- Individual adjustments carried out by qualified orthopaedic specialists

SBU Occupational Health

uvex - a competent partner

uvex prides itself on its expertise and service delivery to the same high level as its products.

uvex offers an all-round professional service undertaking skilled risk assessments, through to the manufacture of individual safety products. The organisation is able to adapt its offer to meet the specific requirements of all companies.

Technological expertise



Innovation "Made in Germany"

Whether it's eye, ear or foot protection, the individual PPE range from uvex provides exceptional guality 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.
- uvex hearing protection is individually moulded to the shape of the ear canal ensuring optimum protection and comfort.
- uvex's customised safety footwear provides a solution for those with medical problems such as fallen arches, splay foot and flat feet.



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 such as opticians, acousticians and orthopaedic shoemakers.

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.

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

Our extensive network of highly qualified experts in optics, acoustics and orthopaedics ensures the availability of firstrate quality of care in your area.

Service expertise



Tailored to meet requirements

Our products are not the only part of our service that we can tailor make. To ensure the maximum efficiency of your organisation, we can arrange for our professionals to visit your organisation – early mornings, evenings or at night if required.

- On site product customisation on request
- Service network of specialists throughout Germany
- Highly qualified in-house specialists
- Professional flexible solutions that are specifically tailored to the individual needs of your company

Social responsibility



Sustainability guaranteed

uvex takes its social responsibility commitments seriously putting its environmental protection and social commitment at the forefront of its daily business.

- Sustainable manufacturing concept
- Avoidance of chemicals beyond the requirements of the EU REACH regulation (uvex's own banned hazardous substances list which goes beyond that of REACH)
- uvex social standard for all manufacturing plantsSocial commitment
 - (e.g. Rainer Winter Foundation, Vision for the World)



UVEX RX App 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.







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

View everything The uvex RX app makes product selection easier.

Prescription Safety Eyewear



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/cm³, 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

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.

10001

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 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			
 Correction of visual defect in far, in-between or near distance 		Single vision, Single vision HD	Single vision HD ≥ centre of lens Main line of sight
Certified prescription range			
Comfort lenses			
Nahcomfort – Version with expanded near vision – Ideal for workplace environments of 30 cm to approx. 2 m		Nahcomfort Standard, Nahcomfort Optima	min. 17 mm Main line of sight
Distanzcomfort - Calculation of the individual correction for defined distances (1 m, 2 m or 4 m)	R	Distanzcomfort Optima	min. 17 mm Zero line of sight
 Single vision Relax To accommodate the prescription for the lower part of the lens, the prescription is increased by +0.5 of a diopter 	F F+0,5 dpt.	Single vision Relax	min. 17 mm Zero line of sight
Certified prescription range			
Bifocals			
 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 	F	Width of segment: 28 mm, curved	
Certified prescription range			
Varifocals			
 Correction of visual defect in far, in-between and near distance Gliding change from far distance to near distance (progressive canal) 	F	Varifocal Standard – Standard area for far distance and near distance – Long, narrow canal of progression	min. 23 mm Zero line of sight
 The non-visible gliding zone corrects in-between distances 	F N	Varifocal Pro Work - Large area for far distance - Wide canal of progression - Optimized area for reading distance	min. 20 mm Zero line of sight
	F	Varifocal Piccolo - Suitable for flat frames - Large area for far distance and near distance - Shortened canal of progression	min. 17 mm Zero line of sight
	F	Varifocal Top One - 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 Zero line of sight
	F TO N	Varifocal Optima, Varifocal Optima HD - Individual adjusted multifocal lens of latest generation - Wide field of view for any distance - Improved design - Almost no blurred zones in periphere area	Optima min. 17mm Optima HD min. 16mm (depending on the corridor length) Zero line of sight
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.

▶ Please take into account the specifications relating to the line of sight when determining the vision point.

Material						Extras, optional						
			Plastic			Silicate	Normal	Multi	Super	UV blue		
	CR 39	HI 1.6	HI 1.67	PC	Trivex	Hard glass	AR	AR	AR	protect	Tint	Variomatic brown
	3>	>	•	>	•	HD not available		3>				
		incl. hard coating	incl. hard coating only available with SAR recommended	incl. hard coating	incl. hard coating only available with SAR		only single vision	only single vision, not for		only HI 1.67 or PC		only Polycarbonate or Trivex
		from +/- 4.0 dpt.	from +/- 6.0 dpt.					hard glass				
	+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	-	3>	not for hard glass	•	only HI 1.67 or PC	-	-
	3>	3>	3>	3>	3>	-	3>	not for hard glass	•	only HI 1.67 or PC	-	-
	3>	3>	3>	3 >	3>	-	3>	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. \pm 4.0 dpt.	+6.0 to -4.5 dpt. at maximum value cyl. ±4.0 dpt.						
	3>	•	-	3>	-	3>	3>	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						
	3>	3>	3>	3>	-	3>	3>	not for hard glass	•	-	3 +>	only Polycarbonate
	3>	3>	3>	3 >	3>		3>	not for hard glass	•	only HI 1.67 or PC	*	only Polycarbonate or Trivex
	3>	3>	3>	3>	-	3>	3 →	-	•	-	**	only Polycarbonate
	3 >	3 >	3 >	3 >	-	3 >	>	not for hard glass	•	only HI 1.67 or PC	**	only Polycarbonate
	3>	3>	3>	3 >	3>	-	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

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Prescription safety spectacles

Lens options for uvex RX cd



Prescription range

Varifocals

Bifocals F Width of segment: 28 mm, curved Prescription range Image: Comparison of the segment of the

F	F	F	F	F	Varifocal Standard	min. 23 mm Zero line of sight
N		N			Varifocal Pro Work	min. 20 mm Zero line of sight
Varifocal Standard	Varifocal Pro Work	Varifocal Piccolo	Varifocal Top One	Varifocal Optima	Varifocal Piccolo	min. 17 mm Zero line of sight
				Varifocal Optima HD	Varifocal Top One	min. 19 mm Zero line of sight
					Varifocal Optima	min. 17 mm Zero line of sight
					Varifocal Optima HD	min. 16 mm (depending on the corridor length) Zero line of sight
Prescription range	9					



▶ 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.

▶ Please take into account the specifications relating to the line of sight when determining the vision point.

Uvex RX cd 5515			uvex RX co	15518			uvex F	AX cd 5520		A MARK
		Material					Ex	tras, optional		
		Plastic								
CR 39	HI 1.6	HI 1.67	PC	Trivex	Normal AR	Multi AR	Super AR	UV blue protect	Tinting	Variomatic brown
3>	3>	3>	3>	3>				3>	30	3>
	incl. hard coating	incl. hard coating only available with SAR	incl. hard coating	incl. hard coating only available with SAR	only single visi- on	only single visi- on		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	3>	3>	3>	only Optima, HI 1.67 or PC	-	-
3>	3>	3>	3>	3>	*		•	only HI 1.67 or PC	-	-
•	•	3>	3>	3>	3>	3>	•	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.						
3>	3>	-	3>	-	3>	3>	3>	-	3>	-
+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.							
3>	3>	3>	3>	-	*		•	-	3>	only Polycarbonate
3>	3>	3>	3>	3>	3>	3>	3>	only, HI 1.67 or PC	3>	only Polycarbonate or Trivex
3>	•	3>	3>	-		-	•	-	3>	only Polycarbonate
3>	•	3>	3>	_	•	3>	•	only, HI 1.67 or PC	•	only Polycarbonate
3>	3>	3>	3>	3>	•	•	•	only, HI 1.67 or PC	>>	only Polycarbonate or Trivex
3 >	3>	3>	3>	3>	only Optima	only Optima	•	only, HI 1.67 or PC	3>	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



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.



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.

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.

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.





Safety eyewear case with pocket for regular spectacles included

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



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			
6	Comfort lenses	for uvex RX sp 5510: Minimum PD ≥ 32.0 mm Fitting height ≥ centre of lens	Single vision Single vision HD	Main line of sight
		for user BY on 5510.	Nahcomfort Optima	min. 17 mm Main line of sight
	Distanz- Single	Minimum PD ≥ 32.0 mm Fitting height ≥ centre of lens	Distanzcomfort Optima	min. 17 mm Zero line of sight
	Nahcomfort comfort vision Optima Optima Relax		Single vision Relax	min. 17 mm Zero line of sight
	Varifocals			
		for uver BX sp 5510.	Varifocal Pro Work	min. 20 mm Zero line of sight
		Minimum PD ≥ 32.0 mm Fitting height ≥ centre of lens	Varifocal Optima	min. 17 mm Zero line of sight
	Pro Work Varifocal Optima Pro Work Varifocal Optima HD		Varifocal Optima HD	min. 16 mm Zero line of sight
	Prescription range			
uvex RX sp 5512, uvex RX sp 5513				
	Single vision			
		Minimum PD ≥ 32.0 mm Fitting height ≥ centre of lens	Single vision Single vision HD	Main line of sight
	Comfort lenses			
			Nahcomfort Optima	min. 17 mm Main line of sight
- uvel	Distanz- Single	Minimum PD ≥ 32.0 mm Fitting height ≥ centre of lens	Distanzcomfort Optima	min. 17 mm Zero line of sight
	Nahcomfort comfort vision Optima Optima Relax		Single vision Relax	min. 17 mm Zero line of sight
	Varifocals			
			Varifocal Pro Work	min. 20 mm Zero line of sight
		Minimum PD ≥ 32.0 mm Fitting height ≥ centre of lens	Varifocal Optima	min. 17 mm Zero line of sight
	Varifocal Varifocal Optima Pro Work Varifocal Optima HD		Varifocal Optima HD	min. 16 mm Zero line of sight
	Prescription range			
uvex RX goggle		Important note	Lens type	Parameter for centering of the lenses
	Description			Specific height
2255	Single vision			Dox measure
		When using PC or PC+ Minimum PD ≥ 32.0 mm When using Trivex Minimum PD ≥ 34.0 mm	Single vision Single vision HD	Main line of sight
	Varifocals			
		When using PC or PC+	Varifocal Pro Work	min. 20 mm Zero line of sight
	NN	Minimum PD ≥ 32.0 mm When using Trivex	Varifocal Optima	min. 17 mm Zero line of sight
	Varifocal Varifocal Optima Pro Work Varifocal Optima HD	Minimum PD ≥ 34.0 mm	Varifocal Optima HD	min. 16 mm Zero line of sight
	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.
- ▶ Please take into account the specifications relating to the line of sight when determining the vision point.

		Material Extras, optional			Extras, optional					
		Plastic			Normal	Multi	Super	UV blue		
CR 39	HI 1.6	HI 1.67	PC	Trivex	AR	AR	AR	protect	Tint	Variomatic brown
3>	>> incl. hard coating	incl. hard coating only available with SAR	>> incl. hard coating	>> incl. hard coating	3>	3>	3>	>>> only HI 1.67 or PC	3>	only Polycarbonate or Trivex
3>	3>	3>	3>	-	•	•	3>	only HI 1.67 or PC	-	-
3>	3>	•	•	-		**	*	only HI 1.67 or PC	-	_
*	•	3>	3>	-	*	3→	3>	only HI 1.67 or PC	-	-
3>	3>	3>	3>	3>	*	>	*	only HI 1.67 or PC	*	only Polycarbonate or Trivex
3>	3>	3>	3>	3>	*	*	*	only HI 1.67 or PC	*	only Polycarbonate or Trivex
3>	3>	3>	3>	>	**	•	*	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.
3>	➤ incl. hard coating	incl. hard coating only available with SAR	►> incl. hard coating	>> incl. hard coating	3+>			>>> only HI 1.67 or PC		only Polycarbonate or Trivex
3>	3>	3>	3>	-			*	only HI 1.67 or PC	-	-
3>	3>	•	•	-	>>	**	*	only HI 1.67 or PC	-	-
3>	3>	3>	3>	-		•	3>	only HI 1.67 or PC	-	-
3>	**	3>	3>	**	>>	>	>	only HI 1.67 or PC	>>	only Polycarbonate or Trivex
3>	•	3>	•	**	**		**	only HI 1.67 or PC	**	only Polycarbonate or Trivex
3>	3>	>>	•	•	>>	•	•	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, op	tional	
CR 39	HI 1.6	Plastic HI 1.67	PC/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
-	-	-	3>	3>	•	•	3 →	only HI 1.67 or PC	•	only Polycarbonate or Trivex
-	-	-	3>	3>			•	only HI 1.67 or PC	•	only Polycarbonate or Trivex
-	-	-	3>	•			*	only HI 1.67 or PC	•	only Polycarbonate or Trivex
			+ 3.50 to – 3.50 dpt. at maximum value cyl. ±2.0 dpt.	+ 3.50 to – 3.50 dpt. at maximum value cyl. ±2.0 dpt.						+ 3.5 to – 3.5 dpt. at maximum value cyl. ±2.0 dpt.

Prescription safety spectacles

Focus types

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 ageing process. Small objects, just in front of the eye, are no longer clearly discerned (so-called ageing 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 a 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

Туре А	Туре В	Туре С
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 \cdot Anti-reflective coating \cdot Tinting

Lens materials

Polycarbonate

- Additional labelling: PC
- organic material with very high breaking strength
- only limited resistance to chemicals
- mechanical strength, class "F" (45 m/sec)
- PC+ polycarbonate with increased centre thickness, specially for uvex RX goggle

Trivex™

- organic material with high breaking strength
- · lightweight, 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.
- · lightweight 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
- heavyweight, 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



UV blue protect

Lens material with special absorber, which filters UV-radiation completely and reduces blue light.

- the lenses absorb UV-radiation up to 400 nm at 100%, filter shortwave, blue light until 410 nm almost completely and reduce the range from 410 nm to 420 around 86%
- uvex UV blue protect lenses are contrast enhancing and prevent eye fatigue and also prevent age-related macular degeneration (AMD)
- the mechanical strength of the lenses is ensured, clear lenses with uvex UV blue protect will have the marking 2C-1,2
- uvex UV blue protect is optionally available for lens materials Polycarbonate (PC) and HI 1,67





VDU spectacles

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 effect 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 40 cm onwards. However, to see the computer screen clearly through the middle and lower areas of the lense, 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 30 cm and 40 cm, 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 30 cm 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



VDU spectacles

Nahcomfort lenses

Nahcomfort lenses are developed for those working in front of a computer monitor or undertaking work that requires frequently alternating between distances of approx. 30 cm and 2 m. The unique design facilitates unimpaired vision in the essential focal zones.



Lens design

- The wearer's usual reading prescription is found in the lower part of the lens.
- The reading prescription gradually becomes weaker further up the lens; in the upper part of the lens, vision is clear at a maximum of approx. 2m.
- The transitions between the different zones are smooth, similar to varifocal lenses.

Advantages of Nahcomfort lenses

- seamlessly sharp vision at distances of approx. 30 cm to 2 m (the distance is a guideline and may vary depending on the prescription)
- a more comfortable field of vision in the individual zones in comparison with varifocal lenses
- a more natural head position is achieved at the work station, this helps to reduce posture-related complaints, such as tension in the neck muscles



Lens type

When selecting the lens type, the wearer's required reading "addition" (reading prescription) and/ or the "degression" (reduction of the reading prescription towards the top of the lens) is taken into account.

Alternatively, the age of the wearer can be used as a point of reference.

Please specify lens type, material and desired model with order.

	Туре А	Туре В	Type C
Degression	0.75 dpt.	1.25 dpt.	1.75 dpt.
Addition	< 1.5 dpt.	1.75 to 2.25 dpt.	> 2.25 dpt.
- alternatively	Age < 50 years	Age 50 – 55 years	Age > 55 years

Anti-reflection

We recommend anti-reflective lenses for work at a VDU. An anti-reflective metal oxide coating is applied, which ensures a significant reduction in reflections on the inner and outer sides of the lens.

This increases the light transparency of the lens and vision clarity is improved. Vision discomfort as a result of reflections is reduced.

Normal	Super
anti-reflective	anti-reflective
Good reflection reduction	Maximum reflection reduction
Metal oxide is	Metal oxide is applied
applied once to	several times to each
each surface	surface
Residual reflection ≈ 4%	Residual reflection < 2%



UV blue

The multi-layered surface of uvex UV blue includes a layer that provides enhanced filtration of short-wave visible light in the blue-violet range.

Providing effective protection against the symptoms of fatigue and headaches associated predominantly with long periods of working at a monitor and/or with digital media.

The uvex UV blue layer system also includes a super anti-reflective coating and a scratchresistant coating.

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	Impact resistance,	Impact resistance,
robustness	low energy	medium energy
Ball bearing drop	Firing a ball bearing	Firing a ball bearing
test, Dropping a ball	(0.88 g) against the	(0.88 g) against the
bearing (44 g)	lens/supporting	lens/supporting
against the lens/	frame,	frame,
supporting frame from	Impact speed 45 m/s	Impact speed 120 m/s
a height of 1.30 m	(≙ 162 km/h)	(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 >5µm) 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

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 1 F CE
W = UVEX	1	S = Increased robustness F = Low-energy impact (45 m/sec.) B = Medium-energy impact (120 m/s)		Conformity sign Mechanical strength Optical grade Manufacturer identification
Frames marking				
Manufacturer identification	Mechanical strength	Applicable EN standard		W F 166 CE
W = UVEX	S = Increased robustness F = Low-energy impact (45 m/sec.) B = Medium-energy impact (120 m/s)	166		Conformity sign EN standard Mechanical strength Manufacturer identification

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



UVEX MEDICARE The logical next step in our mission

uvex medicare







Orthopaedic problems - a widespread phenomenon

As a systems provider and expert manufacturer, uvex is consistently pursuing its protecting people mission in the area of orthopaedics and expanding its spectrum of customised inserts and adjustments for uvex safety footwear.

The customised solutions provided by uvex medicare solve foot-related medical problems in the workplace and offer individual, expertly-designed orthopaedic solutions in uvex safety footwear. This is also accompanied by a comprehensive range of services and support. Scientific studies prove time and again that well over half the adult population suffer from orthopaedic problems such as fallen arches, knock knees, splay foot or flat feet. These conditions have an undisputed effect on the entire musculoskeletal system and physical performance. However, individuals can significantly benefit from professional customised footwear and insert solutions providing protection for every single employee. Individual. Tailor-made. Safe.

Type examination is a prerequisite – German Social Accident Insurance (DGUV) regulation 112-191 (formerly BGR 191*)

Within the framework of the revised German Social Accident Insurance (DGUV) regulation 112-191 (formerly BGR 191), new, clear guidelines were defined for the use of orthopaedic insoles in safety footwear and individual adjustment of safety footwear. The previous practice of employees providing their own inserts is no longer permissible. Employers are no longer able to opt out of their duty of care in respect of orthopaedic health and safety.

Significant elements of German Social Accident Insurance (DGUV) regulation 112-191 include a requirement that only fully certified orthopaedic solutions are allowed. This means that no changes made to safety footwear or insoles may impair the safety characteristics of the footwear and that the entire system must be individually tested. uvex guarantees that its systems are individually tested. Certification gives you the peace of mind that we have used only tested and certified materials and components.





Partnership with uvex Summary of benefits

- tailor-made orthopaedic solutions for individual employees
- developed by specialist orthopaedic footwear manufacturers
- uvex orthopaedic products can provide legal peace of mind
- whether it's customised inserts or shoe adjustments, all uvex orthopaedic solutions offered in combination with uvex safety footwear are certified by accredited testing bodies
- a wide range of uvex safety footwear has been approved for use with uvex medicare orthopaedic solutions, you can create a uniform look throughout your company by introducing a single footwear model
- local adjustment service provided either by a uvex representative or a representative from one of our approved uvex medicare partners
- tailor-made correction service free of charge
- delivery of on-site health awareness workshops for employees
- products supplied with individual documentation detailing all adaptations and in accordance with legal requirements

A strong network Wherever you are

With individually tailored product solutions, it is important to offer customers an expert local adjustment service, capable of being available, on-site as quickly as possible. We work with efficient orthopaedic specialists nationwide to ensure that you will always get the service you need.

The network of approved uvex medicare partners offers not only an expert orthopaedic diagnosis and a range of corrective measures, but can also provide employers with peace of mind, knowing that any product solution they use will conform to the applicable standards and legal requirements.

Our uvex medicare partners will be happy to visit your company by appointment in order to work with you to select and implement the most appropriate safety measures for your employees. Speak to your personal uvex representative about alternative solutions for your company.

The declarations of conformity for uvex medicare certified safety shoes can be found at: www.uvex-safety.com/en/ce-medicare



uvex medicare

uvex motion 3XL safety footwear - functionality in every detail



Size comparison

Exceptionally high, anatomically shaped toe cap

The extremely high and wide uvex medi-cap ensures sufficient room for deformed feet (e.g. hammer, claw and mallet toes), a splint, an inner shell or a light foot bandage, so the risk of pressure points is reduced. In addition, this model offers good freedom of movement around the toes taking into account the big toe joint.

Soft, elasticated transition

The transition from toe cap to tongue protects the metatarsophalangeal (MTP) joints at the base of the toes.

Secure and adjustable lacing system

Extremely soft, padded tongue with external individually adjustable lacing system.



Increased space Additional space for movement to reduce pressure points.

----+1



All-round cap for impact

protection All-round shoe casing increases protection for wearer and the product life of the shoes. **Metal-free toe cap and midsole** Penetration-resistant sole and toe cap of high-tech plastics fulfil requirements of S3 shoes in accordance with norm EN ISO 20345:2011.

Generous foot width

Considerably wider than size 15. Ample room for inserting a thick insole, e.g. special diabetic insole.

UVEX MOTION 3XL A true "space miracle"

Minimal seams

To prevent potential rubbing points, the shoes have only three seams which align with the movement direction of the foot. A further feature that reduces pressure points.

Extended heel cap

The heel cap is extended both inside and outside which ensures optimum heel guidance. This improves body static and increases stability.



Padded shoe shaft

Special padding in the collar, ankle and achilles tendon area prevent pressure points.

Maximum comfort Triple-layer lining with ultra-soft padding. **Complete orthopaedic package** Construction material comprising soft, conductive EVA 6 mm thick foam, in combination with orthopaedic inserts with EVA core.

Where the uvex motion 3XL can help



Diabetes

Oversensitive, dry skin, a tendency for corns, hammer toes and claw toes, through to open wounds with associated neuropathy, which can lead to amputations: People with diabetic foot syndrome are advised to wear optimal footwear. Rule of thumb: The fewer pressure points that the shoe causes on the foot (while still providing the required stability), the more comfortable they are to wear, which reduces and alleviates any existing symptoms.



Foot misalignment or deformations

Whether natural characteristics such as extremely wide or "fleshy" feet, or deformities of the foot that are either congenital or have developed over time due to misalignments or joint changes (e.g. hallux valgus, hallux varus, hallux rigidus): If they are not cushioned by correctly fitted footwear to reduce possible pressure points, they tend to get worse.



Ankle inflammation and osteoarthritis

Disorders in the foot can be caused by ankle inflammation, such as symptoms of tendonitis or diseases such as gout or arthritis. Osteoarthritis of the tarsal or ankle joint also cause chronic pain. Relief can be provided by shoes that guarantee stability with maximum mobility.



Joint blockages, tendon contractures, heel spur

Orthopaedic problems such as joint blockages (in the ankle joint or tarsal bone) and tendon contractures or bone formations such as heel spurs: if they are already sufficiently pronounced, they not only cause chronic pain, but they increasingly restrict a person's ability to move. Post-operative problems, the effects of operations or accidents at work or while playing sport can often drag on for months or years. The feet are often affected: either directly or indirectly as a result of immobility of the legs in particular. The right footwear ensures that those affected will be able to move again quickly and without pain.



Lower leg problems

Symptoms of paralysis, dorsiflexion weakness, stiff joints or muscle weakness in the lower leg require orthopaedic boots. Stabilising the ankles can prevent those affected from twisting or stumbling, and so avoid further injury.

uvex medicare

Comfortable customised inserts - Insert technology for tailor-made treatment

EVA soft-foam technology

All products suitable for orthopaedic foot

protection are indicated in this catalogue

with the uvex medicare symbol.



Our orthopaedic uvex customised comfort inserts and orthopaedic shoe adjustments are only certified in accordance with specific safety shoes in each case.

To avoid safety risks, it is essential that you select the right safety shoe for the product (notes in main catalogue). We accept no liability for non-certified combinations. Please do not hesitate to contact us should you have any concerns regarding the right safety

shoe. Our orthopaedic uvex comfortable customised inserts and orthopaedic shoe adjustments are certified in accordance with EN ISO 20345:2011 in combination with uvex safety shoes, which are marked in the uvex catalogue with the uvex medicare symbol.



uvex medicare

Orthopaedic shoe adjustments - Professional and discreet



6499911

Orthopaedic shoe adjustments

Shoe lift

A shoe lift is required to balance legs of different length. A shoe lift should never exceed 3 cm.



6499913



6499914

Roller sole

A roller sole eases the burden on the feet during your stride. The precise effect is governed by the location of the pressure point. This helps adjust the length of your stride.

Butterfly roller

A butterfly roller reduces the burden on sensitive metatarsal bones by dissipating the pressure caused by each stride. By moving the pressure point, you can create an extra rocking effect.





6499915

Outer and inner sole wedges

By using a wedge, you can adjust the slope beneath the feet in a standing position and correct the line of your stride when walking.

Note: For shoe adjustments, the temperature resistance of the sole is reduced to 60 °C.

Note: For Austria, the uxex naturform range is not approved in accordance with ÖNORM Z1259. Only "variant A – orthopaedic insert" for model 69608 uvex xenova® hygiene sling is possible in accordance with ÖNORM Z1259.