uvex



Prescription Safety Eyewear

2017

protecting people



Tailor-made vision

with prescription safety spectacles

uvex safety in conjunction with **Ultimate Optical** offer a full range of tailor-made prescription safety spectacles that meet the EN standard on both the frames and the lenses as required by EN.

As the international leaders in eyewear innovation, uvex prescription with full EN standards is available throughout Southern Africa via Ultimate Optical and their comprehensive optometry network.

Ultimate Optical has been audited by uvex internationally and are officially permitted to manufacture prescription EN approved lenses under licence for the region.

Summary of benefits:

- Customised solution for uses
- Adherence to EN standards
- Safety training available locally
- Individual advice on products to suit the particular work area
- Comprehensive selection of EN approved frames
- Extensive selection of lens materials and designs
- Eyes tested and lenses manufactured locally
- uvex complete spectacles are assembled and packaged locally





The frames and lenses of the tailor-made prescription safety spectacles must feature a permanent EN 166 mark in order to fulfil the standards prescribed by EN legislation both on the frames and the lenses.

uvex

Prescription safety spectacles

Basic collection plastic frames



5503 2000 54/17



5503 7415 54/17



5503 1300 54/17

uvex 5503

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

uvex 5503			
Art. no.	6109.202	6109.203	6109.204
Ref. no.	5503 2000 54/17	5503 1300 54/17	5503 7415 54/17
Lens diameter	54 mm	54 mm	54 mm
Bridge width	17 mm	17 mm	17 mm
Colour	white	anthracite	green, grey
Extras			metal arms with sprung hinges



5504 2000 55/20



5504 1525 55/20



5504 1300 55/20

uvex 5504

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

uvex 5504			
Art. no.	6109.205	6109.206	6109.207
Ref. no.	5504 2000 55/20	5504 1300 55/20	5504 1525 55/20
Lens diameter	55 mm	55 mm	55 mm
Bridge width	20 mm	20 mm	20 mm
Colour	white	anthracite	grey, translucent
Extras			metal arms with sprung hinges

Prescription safety spectacles

Basic collection plastic frames



5502 1725 56/15



5502 3525 56/15

uvex 5502

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

uvex 5502		
Art. no.	6108.215	6108.202
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

previously: uvex 9134 meteor



5511 3000 49/20

uvex 5511

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

uvex 5511	
Art. no.	6108.216
Ref. no.	5511 3000 49/20
Lens diameter	49 mm
Bridge width	20 mm
Colour	blue
Extras	metal arms

previously: uvex 9137 ceramic

uvex

Prescription safety spectacles

Basic collection plastic frames · uvex RX 5505 family



5505 2900 55/19
5505 2900 57/19

uvex 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 5505		
Art. no.	6109.208	6109.209
Ref. no.	5505 2900 55/19	5505 2900 57/19
Lens diameter	55 mm	57 mm
Bridge width	19 mm	19 mm
Colour	transparent	transparent



5505 seal 55/19
5505 seal 57/19

uvex 5505 seal

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

uvex 5505 seal		
Art. no.	6118.000	6118.001
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. 6109.208	Art. no. 6109.209



5505 2900 55/19 with 5505 seal 55/19

Prescription safety spectacles

Basic collection metal frames



5105 1800 50/20

uvex 5105

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

uvex 5105	
Art. no.	6109.107
Ref. no.	5105 1800 50/20
Lens diameter	50 mm
Bridge width	20 mm
Colour	silver

previously: uvex 9253 silverstar



5106 1400 52/20

uvex 5106

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

uvex 5106	
Art. no.	6109.109
Ref. no.	5106 1400 52/20
Lens diameter	52 mm
Bridge width	20 mm
Colour	gunmetal, matt

previously: uvex 9254 greystar



5107 6200 47/20

uvex 5107

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

uvex 5107	
Art. no.	6109.110
Ref. no.	5107 6200 47/20
Lens diameter	47 mm
Bridge width	20 mm
Colour	antique gold

previously: uvex 9154 starlet



5108 3400 54/19

uvex 5108

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

uvex 5108	
Art. no.	6109.112
Ref. no.	5108 3400 54/19
Lens diameter	54 mm
Bridge width	19 mm
Colour	steel blue

previously: uvex 9155 mercury

uvex

Prescription safety spectacles

Basic collection metal frames



5101 1018 54/17
5101 1018 56/17



5103 1400 53/17
5103 1400 55/17

uvex 5101

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

uvex 5101		
Art. no.	6109.102	6109.103
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

uvex 5103

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

uvex 5103		
Art. no.	6109.104	6109.105
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



5104 6054 56/21

uvex 5104

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

uvex 5104	
Art. no.	6109.106
Ref. no.	5104 6054 56/21
Lens diameter	56 mm
Bridge width	21 mm
Colour	gold, havanna

previously: uvex F 300

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



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

previously: uvex RX ti 9248

uvex

Prescription safety spectacles

Lens options for plastic and metal frames in uvex basic collection models uvex RX 5505 · uvex RX ti

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**
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** Versions see page 22	min. 17 mm
Distanzcomfort – Calculation of the individual correction for defined distances (1 m, 2 m or 4 m)		**Distanzcomfort Optima**	min. 17 mm
Single vision Relax – 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			
– 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			
– 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** – Standard area for far distance and near distance – Long, narrow canal of progression	min. 23 mm
		**Varifocal Pro Work** – Large area for far distance – Wide canal of progression – Optimized area for reading distance	min. 20 mm
		**Varifocal Piccolo** – Suitable for flat frames – Large area for far distance and near distance – Shortened canal of progression	min. 17 mm
		**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
		**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 >> Version HD see page 22	Optima min. 17 mm Optima HD min. 16 mm (depending on the corridor length)
Certified prescription range			

	Material							Extras, optional				
	Plastic						Silicate					
	CR 39	HI 1.6	HI 1.67	PC	PC+	Trivex	Hard glass	Normal AR	Multi AR	Super AR	Tint	Variomatic brown
							not for uvex 5505 model					
	✔	✔	✔	✔	✔		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	incl. hard coating only available with SAR		only single vision	only single vision, not for hard glass	✔		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 –8.0 dpt. at maximum value cyl. ±6.0 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	Standard/ Optima	only Optima	only Standard	✔	not for hard glass	✔	–	–
	✔	✔	✔	✔	✔	✔	–	✔	not for hard glass	✔	–	–
	✔	✔	✔	✔	✔	✔	–	✔	not for hard glass	✔	–	–
	+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.	+8.0 to –8.0 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	+8.0 to –8.0 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 Polycarbonate or Trivex
	✔	✔	✔	✔	✔	–	✔	✔	–	✔	✔	only Polycarbonate
	✔	✔	✔	✔	✔	–	✔	✔	not for hard glass	✔	✔	only Polycarbonate
	✔	✔	✔	✔	✔	✔	–	only Optima	only Optima not for hard glass	only Optima	✔	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	+8.0 to –8.0 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

uvex

uvex i-3 add

Perfect vision in every situation

Optimum protective eyewear means improved, safe vision.

uvex i-3 add safety spectacles have invisible integrated dioptre correction for near vision. Strain on the eyes is effectively reduced (e.g. when reading) and the patented lens technology ensures an instant high level of compatibility for wearers. At the same time, the uvex i-3 add spectacles provide secure protection and optimal comfort.



Variable side arm inclination

The 5-position side arm inclination allows individual adjustment and optimum coverage of the eyes.



Addition

Two models are available for individualised correction of near vision. (+1.0 dpt. and +2.0 dpt.)





Flexible nose loops

The extremely soft adjustable Softflex nose loops ensure a secure fit and can be individually adapted to sit comfortably on the nose.

uvex supravision excellence

The uvex supravision excellence coating guarantees extreme scratch resistance on the outside and permanent anti-fogging properties on the inside.

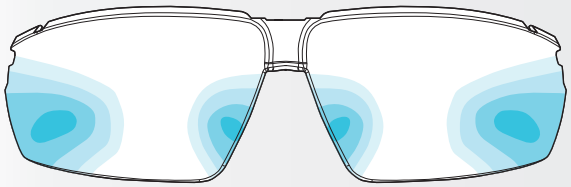
MADE IN GERMANY

Patent no.: DE 10 2012 207 384

Perfection in every detail

The patented lens technology makes it possible to integrate two progression zones for near vision on the inside of the duospherical single lens safety spectacles. The correction strength at the bottom of the lenses is +1.0 or +2.0, depending on the model. A distinctive feature and unique selling point is that the patented manufacturing technology means the front area and consequently the base curve of the lenses are not altered.
This combines extremely good coverage and fit, all the way to the edge, together with the benefits of a progressive lens on the inside area. A further benefit is that the progressive zone is not visible and that these spectacles comply with all standards of EN norms that are relevant to safety.





optical lens designed by optiswiss® original since 1937

Progression zones

This diagram of the lenses shows the large zone that does not feature any optical correction. The transparent, integrated optical correction starts in the region of the middle and the strength increases gradually towards the lower edge of the lenses. The correction strength of the spectacles is +1.0 or +2.0, depending on the model.
The free-form lens is manufactured in accordance with standard parameters and designed for a distance of approximately 64 mm between the eyes. These safety spectacles do not permanently replace prescription safety spectacles.

uvex i-3 add

	uvex i-3 add 1.0	uvex i-3 add 2.0
Art. no.	6108.210	6108.211
Frame	anthracite, lime	anthracite, lime
	W 166 FT CE 0196	W 166 FT CE 0196
Lens	PC clear	PC clear
	UV 400	UV 400
	2C-1.2 W 1 FTKN CE	2C-1.2 W 1 FTKN CE
	uvex supravision excellence	uvex supravision excellence
Strength	1.0 dpt.	2.0 dpt.



Including soft spectacles case with microfibre cloth

Prescription safety spectacles

uvex RX gravity zero



7101 1300 53/20

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

▶ Please note the glazing options for uvex RX gravity zero on pages 12/13.



7102 1300 53/17

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

▶ Please note the glazing options for uvex RX gravity zero on pages 12/13.



7103 1900 47/17

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.	6109.302
Ref. no.	7103 1900 47/17
Lens	47 mm
Bridge width	17 mm
Colour	silver, matt

▶ Please note the glazing options for uvex RX gravity zero on pages 12/13.



7104 1600 49/17

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

▶ Please note the glazing options for uvex RX gravity zero on pages 12/13.

uvex

Prescription safety spectacles

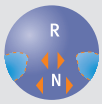
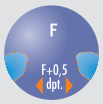
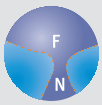
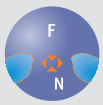
Lens options for uvex RX gravity zero



uvex RX gravity zero 7101



uvex RX gravity zero 7102

	Lens type	
Description		
Single vision		
	**Single vision, Single vision HD**	
Prescription range		
Comfort lenses		
 Nahcomfort Optima  Distanzcomfort Optima  Single vision Relax	**Nahcomfort Optima** (Versions see page 22) **Distanzcomfort Optima** **Single vision Relax**	
Prescription range		
Bifocals		
	Width of segment: 28 mm, curved	
Prescription range		
Varifocals		
 Varifocal Standard  Varifocal Pro Work  Varifocal Piccolo  Varifocal Top One  Varifocal Optima Varifocal Optima HD	**Varifocal Standard** **Varifocal Pro Work** **Varifocal Piccolo** **Varifocal Top One** **Varifocal Optima** **Varifocal Optima HD**	
Prescription range		

▶ **The lens options for uvex gravity zero frames are limited. In order to maintain maximum stability with rimless frames, uvex recommends that Trivex is used as the lens material. Please also ensure the frame fits correctly.**



uvex RX gravity zero 7103



uvex RX gravity zero 7104

	Parameter for centering of the lenses	Material			Extras, optional				
	Specific height	Plastic							
	Box measure	HI 1.6	HI 1.67	Trivex	Normal AR	Multi AR	Super AR	Tint	Variomatic brown
		✔	✔	✔	✔	✔	✔	✔	✔
	Single vision HD ≥ centre of lens	incl. hard coating	incl. hard coating only available with SAR	incl. hard coating only available with SAR					Trivex
		+4.0 to –6.0 dpt. at maximum value cyl. ±4.0 dpt.	+4.0 to –6.0 dpt. at maximum value cyl. ±4.0 dpt.	+4.0 to –6.0 dpt. at maximum value cyl. ±4.0 dpt.					+4.0 to –6.0 dpt. at maximum value cyl. ±4.0 dpt.
	min. 17 mm	✔	✔	✔	–	–	✔	–	–
	min. 17 mm	✔	✔	✔	–	–	✔	–	–
	min. 17 mm	✔	✔	✔	–	–	✔	–	–
		+4.0 to –6.0 dpt. at maximum value cyl. ±4.0 dpt.	+4.0 to –6.0 dpt. at maximum value cyl. ±4.0 dpt.						
		✔	✔	–	✔	✔	✔	✔	–
		+4.0 to –6.0 dpt. at maximum value cyl. ±4.0 dpt.	+4.0 to –6.0 dpt. at maximum value cyl. ±4.0 dpt.						
	min. 23 mm	✔	✔	–	✔	✔	✔	✔	–
	min. 20 mm	✔	✔	✔	✔	✔	✔	✔	only Trivex
	min. 17 mm	✔	✔	–	✔	–	✔	✔	–
	min. 19 mm	✔	✔	–	✔	✔	✔	✔	–
	min. 17 mm	✔	✔	✔	✔	✔	✔	✔	only Trivex
	min. 16 mm (depending on the corridor length)	✔	✔	✔	✔	✔	✔	✔	only Trivex
		+4.0 to –6.0 dpt. at maximum value cyl. ±4.0 dpt.	+4.0 to –6.0 dpt. at maximum value cyl. ±4.0 dpt.	+4.0 to –6.0 dpt. at maximum value cyl. ±4.0 dpt.					+4.0 to –6.0 dpt. at maximum value cyl. ±4.0 dpt.

uvex

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.





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.

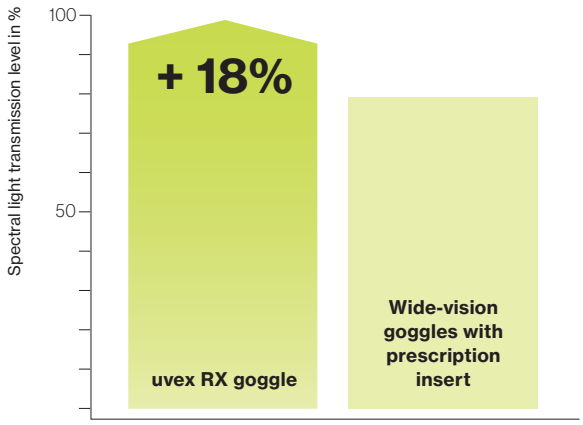


Hygiene

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

No loss of light. No optical aberrations.
The uvex RX goggle features a frame into which the prescription lenses can be directly fitted. As a result, light is only refracted through one medium, which ensures the same optical quality as normal safety eyewear.





Visibly better
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 over-specs. The higher transmission level minimises the strain on eye muscles. This is further boosted by an additional anti-reflective coating on the prescription lenses.

uvex RX goggle and PC+

Top class protection

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 22 and 23.



9500 1379 61/14

PRIX DE L'INNOVATION Préventica 2015

uvex RX goggle

uvex RX goggle	
Art. no.	6109.500
Ref. no.	9500 1379 61/14
Lens	61 mm
Bridge width	14 mm
Colour	anthracite, lime
	Prescription values limited to +/-3.5 dpt. at maximum value, cyl. 2.0 dpt.
	Minimum PD with PC/PC+: 32 mm
	Minimum PD with Trivex: 34 mm
	Fitting height ≥ centre of lens

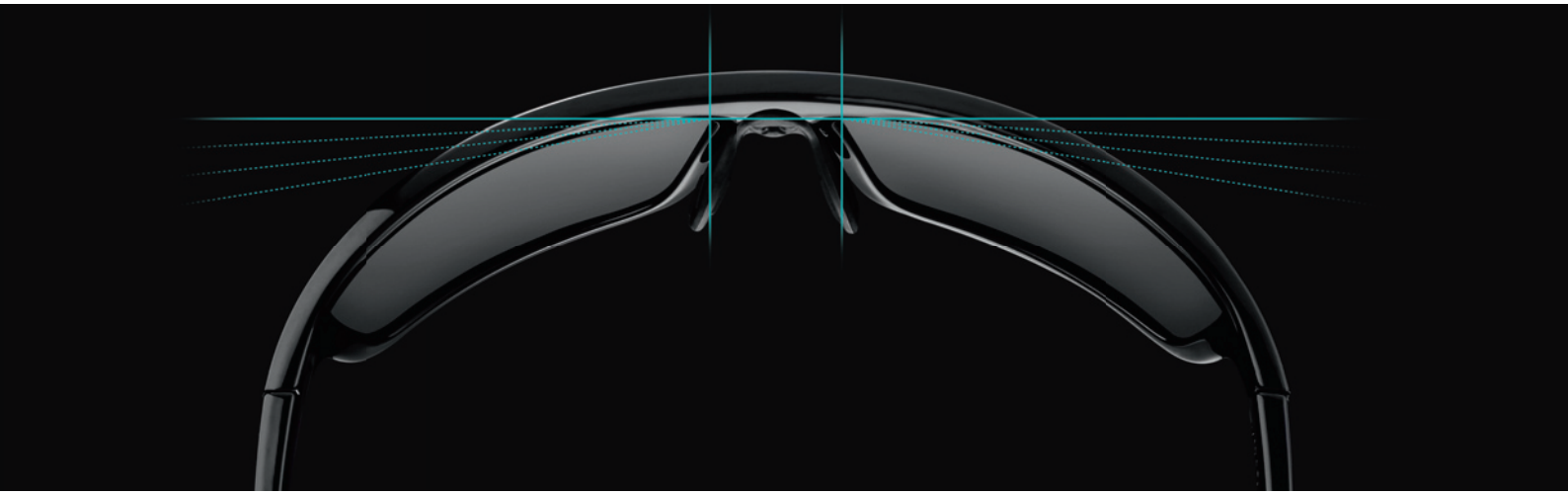
Safety eyewear case with pocket for regular spectacles included



uvex

uvex RX sp

Lifestyle at work



uvex RX sp frames

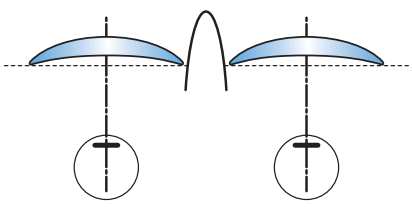
Make a statement with the uvex RX sp collection which stands out due to its sporty design and appealing frame colour combinations .
All protection functions are fully integrated into the frame design requiring no separate side guards which is commonly the case with conventional protective spectacles.

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.

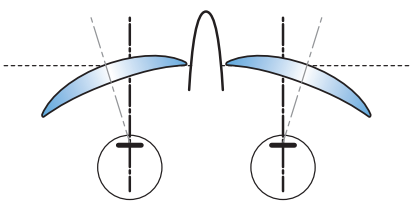
uvex anatomic sport lens

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.



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.

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.	6109.220	6109.221
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.	6118.004	6118.005
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 20/21.



6118.004



6118.005



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



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

uvex

Prescription safety spectacles

uvex RX sp



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.	6109.222
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 page 20/21.



5510 1217 62/17



5510 1248 62/17

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.	6109.216	6109.217
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 page 20/21.

Prescription safety spectacles

uvex RX sp





5507 5520 59/18



5507 7820 59/18

uvex RX sp 5507

- sporty, plastic “wraparound” design with changeable lens inserts and anatomic sport glazing
- side shield and integrated brow guard frame design
- good fit with anatomically shaped soft nose bridge
- the wraparound side arms and soft-grip earpieces ensure a non-slip fit

uvex RX sp 5507		
Art. no.	6109.211	6109.212
Ref. no.	5507 5520 59/18	5507 7820 59/18
Lens diameter	59 mm	59 mm
Bridge width	18 mm	18 mm
Colour	brown, white	lime, white

▶ Please note the glazing options for uvex RX sp on page 20/21.

Prescription safety spectacles

Lens options for uvex RX sp models

uvex RX sp 5507	Description	Important note	Lens type	Parameter for centering of the lenses Specific height Box measure
	**Single vision**			
			**Single vision** **Single vision HD**	
	Comfort lenses			
	 Nahcomfort Optima  Distanz-comfort Optima  Single vision Relax		**Nahcomfort Optima** **Distanzcomfort Optima** **Single vision Relax**	min. 17 mm min. 17 mm min. 17 mm
	Varifocals			
	 Varifocal Pro Work  Varifocal Optima		**Varifocal Pro Work** **Varifocal Optima** **Varifocal Optima HD**	min. 20 mm min. 17 mm min. 16 mm
	Prescription range			
uvex RX sp 5510				
	**Single vision**			
		**Minimum PD ≥ 32.0 mm** **Fitting height ≥ centre of lens**	**Single vision** **Single vision HD**	
	Comfort lenses			
	 Nahcomfort Optima  Distanz-comfort Optima  Single vision Relax	**Minimum PD ≥ 32.0 mm** **Fitting height ≥ centre of lens**	**Nahcomfort Optima** **Distanzcomfort Optima** **Single vision Relax**	min. 17 mm min. 17 mm min. 17 mm
	Varifocals			
	 Varifocal Pro Work  Varifocal Optima	**Minimum PD ≥ 32.0 mm** **Fitting height ≥ centre of lens**	**Varifocal Pro Work** **Varifocal Optima** **Varifocal Optima HD**	min. 20 mm min. 17 mm min. 16 mm
	Prescription range			
uvex RX sp 5513 · uvex RX sp 5512				
	**Single vision**			
		**Minimum PD ≥ 32.0 mm** **Fitting height ≥ centre of lens**	**Single vision** **Single vision HD**	
	Comfort lenses			
	 Nahcomfort Optima  Distanz-comfort Optima  Single vision Relax	**Minimum PD ≥ 32.0 mm** **Fitting height ≥ centre of lens**	**Nahcomfort Optima** **Distanzcomfort Optima** **Single vision Relax**	min. 17 mm min. 17 mm min. 17 mm
	Varifocals			
	 Varifocal Pro Work  Varifocal Optima	**Minimum PD ≥ 32.0 mm** **Fitting height ≥ centre of lens**	**Varifocal Pro Work** **Varifocal Optima** **Varifocal Optima HD**	min. 20 mm min. 17 mm 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. Please also ensure the frame fits correctly.**

	Material					Extras, optional				
	Plastic									
	CR 39	HI 1.6	HI 1.67	PC	Trivex	Normal AR	Multi AR	Super AR	Tint	Variomatic brown
	✔	✔	✔	✔	✔	✔	✔	✔	✔	✔
		incl. hard coating	incl. hard coating only available with SAR	incl. hard coating	incl. hard coating only available with SAR					only Polycarbonate or Trivex
	✔	✔	✔	✔	–	✔	✔	✔	–	–
	✔	✔	✔	✔	–	✔	✔	✔	–	–
	✔	✔	✔	✔	–	✔	✔	✔	–	–
	✔	✔	✔	✔	✔	✔	✔	✔	✔	only Polycarbonate or Trivex
	✔	✔	✔	✔	✔	✔	✔	✔	✔	only Polycarbonate or Trivex
	✔	✔	✔	✔	✔	✔	✔	✔	✔	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 Polycarbonate or Trivex
	✔	✔	✔	✔	–	✔	✔	✔	–	–
	✔	✔	✔	✔	–	✔	✔	✔	–	–
	✔	✔	✔	✔	–	✔	✔	✔	–	–
	✔	✔	✔	✔	✔	✔	✔	✔	✔	only Polycarbonate or Trivex
	✔	✔	✔	✔	✔	✔	✔	✔	✔	only Polycarbonate or Trivex
	✔	✔	✔	✔	✔	✔	✔	✔	✔	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 Polycarbonate or Trivex
	✔	✔	✔	✔	–	✔	✔	✔	–	–
	✔	✔	✔	✔	–	✔	✔	✔	–	–
	✔	✔	✔	✔	–	✔	✔	✔	–	–
	✔	✔	✔	✔	✔	✔	✔	✔	✔	only Polycarbonate or Trivex
	✔	✔	✔	✔	✔	✔	✔	✔	✔	only Polycarbonate or Trivex
	✔	✔	✔	✔	✔	✔	✔	✔	✔	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.

uvex

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 agerelated 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

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)

Singe 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.



uvex academy South Africa

A practical introductory seminar on eye protection with corrective lenses.

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

Target group

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

For more information or to book a place, please visit **uvex.co.za**

uvex academy

uvex Safety South Africa, offers safety conservation training in all eleven official languages for distributors and end users, and carries out on-site surveys.

DURBAN Tel: 031 569 6780 • e-mail: info@uvex.co.za

PRETORIA Tel: 012 345 6656 • e-mail: safety@uvex.co.za

Find us on Facebook and YouTube

More about our safety products at uvex.co.za

uvex Safety products conform to EN & SABS Safety Standards

ISO 9001

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protecting people

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Prescription safety spectacles

Certification and labelling

The frames and lenses of tailor-made prescription safety spectacles in accordance with European standard 166 must feature a permanent mark.

Independent testing institutes carry out certification of the materials at regular intervals.

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

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

If the mechanical strength level marked on the lens differs from that on the frame, the lower mechanical strength applies to the eye protection as a whole.

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

Basic requirements in accordance with EN 166 (extract)
• Mechanical strength

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

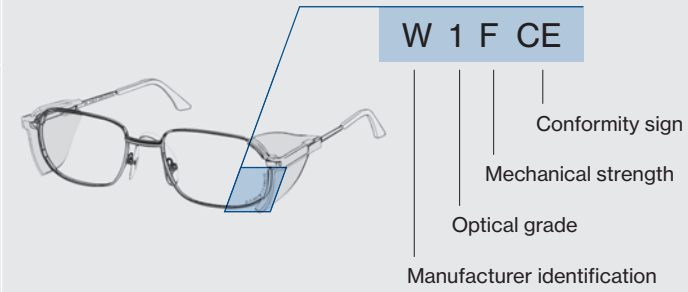
Optional requirements in accordance with EN 166 (extract)

- 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

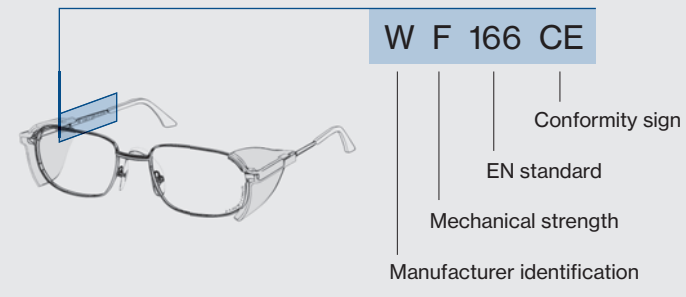
Lens marking

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

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uvex safety South Africa (Pty) Ltd

Head Office Coastal
2 Kubu Avenue
Riverhorse Valley Business Estate
Effingham, Durban
SOUTH AFRICA

Phone: +27 31 569 6780
Fax: +27 31 569 6781

Email: info@uvex.co.za
Web: uvex.co.za

Inland Office
81 Sovereign Drive
Route 21 Corporate Park
Irene, Pretoria
SOUTH AFRICA

Phone: +27 12 345 66 56
Fax: +27 12 345 6663

Email: safety@uvex.co.za
Web: uvex.co.za