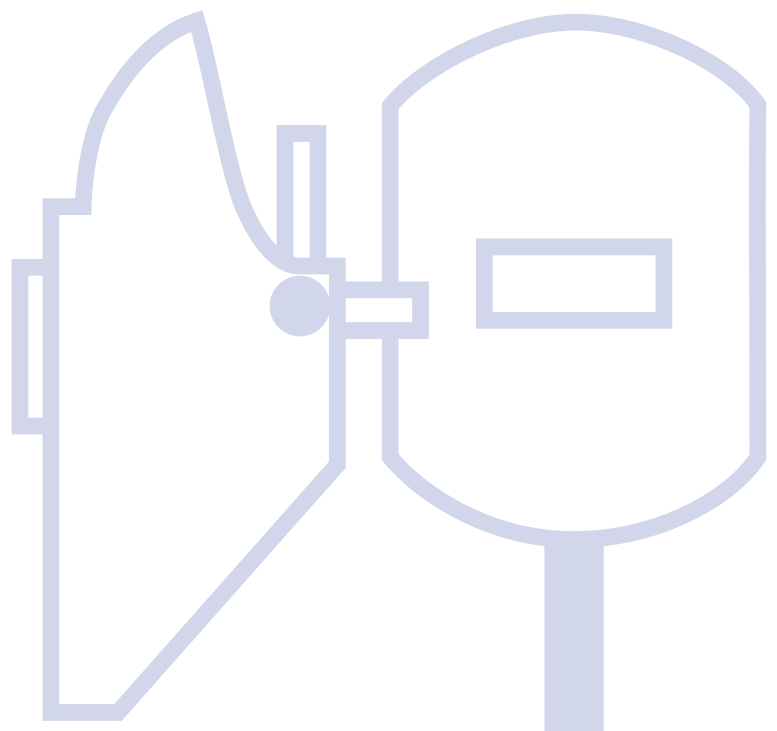


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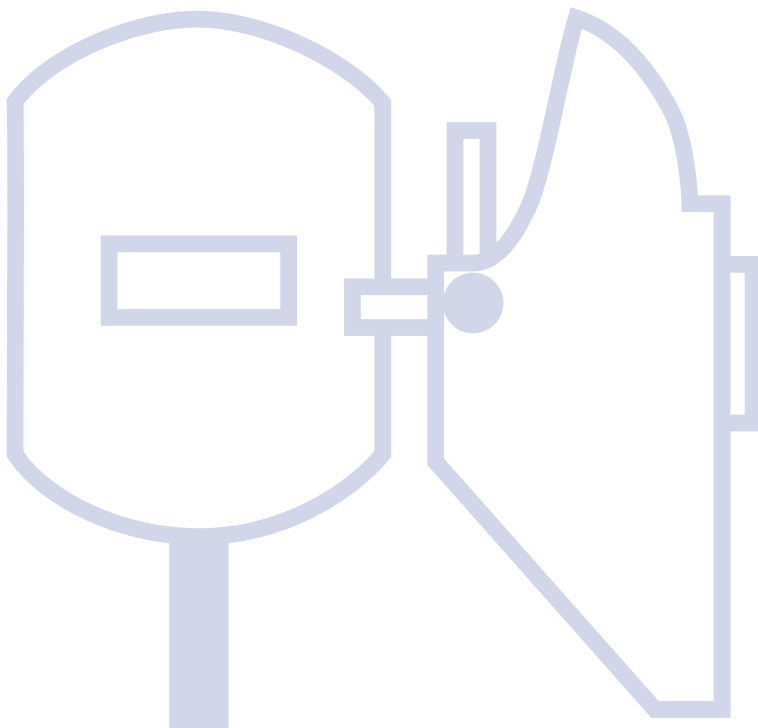
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## Multi Vision Grind



The Multi Vision Grind is a lightweight welding helmet appropriate for most welding, cutting and gouging activities. The helmet gives a maximum protection of the eyes and face against sparks and spatter and optical and heat radiation. This is combined with an optimal wearing comfort, easy use and a long-life. The Multi Vision Grind welding helmet comes with an automatic cartridge that has three adjustable options by which the light sensitivity, shade colour and opening speed can be altered. The Multi Vision Grind welding helmet:

- Maximum protection.
- Optimal wearing comfort.
- Extreme Clear view.
- Fully adjustable.
- Very fast reaction time.
- Long-life.
- Different colours.
- Appropriate for all welding activities.

The Multi Vision Grind welding helmet is made of high quality heat resistant material. The design of the helmet gives optimal protection against welding smoke.

The head harness is fully adjustable for optimal wearing comfort. The shade colour is continuously variable from 9 to 13 even during welding.

When open the shade colour of the cartridge is 3.

The automatic cartridge is powered by solar cells as a result of which battery replacements are things of the past.

The two sensors on the cartridge provide an extremely fast reaction time.

EN 175 B

EN 379 1/3/1/2

Product nr	Description	Packing
44.47.50265	Multi Vision Grind Carbon with cartridge 3,5/9-13.	1

## Multi Vision Grind Cartridge



Cassette specifications:

ADF: 9-13 with grinding shade 3,5

Cassette size: 110 x 90 x 8,5 mm

Viewing area: 96 x 42 mm

Sensors: 2

Light sensitivity: adjustable (stepless)

Filter shade: adjustable DIN 3,5 and from DIN 9 to DIN 13, stepless

Energy: solar cells & lithium back up battery

Switching time: 0,1 ms

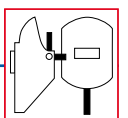
Clearing time: 0,1 - 0,9 sec, adjustable (stepless)

Temp. range: -10 to +55 degrees Celsius

EN 175B: suitable for grinding

Optical class EN379: 1/3/1/2

Product nr	Description	Packing
44.47.51482	Multi Vision Grind Cartridge 3,5/9-13.	1



## Multi Vision Xchange, flip-up with ADF or welding glass



The Multi Vision Xchange is a lightweight Multi Vision welding helmet with unique features. The flip-up holder contains a superior DIN shade-10 automatic cassette with a clear DIN shade-3 neutral position (included). The class 1/1/1/1 cassette in the flip-up holder can at any time be changed for regular welding glass. In other words: this welding helmets offers max. flexibility and a prolonged product lifetime.

### ADF cassette specifications

Cassette: shade 10 and 3

Optical class: 1/1/1/1 EN 379

Viewing area: 92 x 35 mm

Cassette: 108x51x5 mm

Sensors: 2

Energy: solar cells & back up battery

Switching time: 0,8 ms light to dark

Switching time: 0,25 - 0,45 second dark to light

Temp. range: -5 to +55 degrees Celsius

For TIG: 35A AC & 35A DC

NEN / EN 175 B

EN 379 1/1/1/1

Product nr	Description	Packing
44.47.50308	Multi Vision Xchange flip-up helmet with ADF shade 10 / 3.	1

## Multi Vision Xchange ADF Cartridge



Cartridge for MultiVision Xchange 51x108mm flip-up helmets.

### ADF cassette specifications

Cassette: shade 10 and 3

Optical class: 1/1/1/1 EN 379

Viewing area: 92 x 35 mm

Cassette: 108x51x5 mm

Sensors: 2

Energy: solar cells & back up battery

Switching time: 0,8 ms light to dark

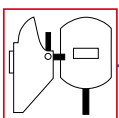
Switching time: 0,25 - 0,45 second dark to light

Temp. range: -5 to +55 degrees Celsius

For TIG: >35 Amp. AC & >35 Amp. DC

EN 379 1/1/1/1

Product nr	Description	Packing
44.47.51408	Cartridge Multi Vision Xchange shades 3 and 10.	1



## WELDING HELMETS AND WELDING HANDSHIELDS

### Multi Vision Grind anti-spatter lenses

EN 175 B: suitable for grinding

EN 379: 1/3/1

Product nr	Description	Packing
44.58.65300	Set 10 pcs. inner anti-spatter lenses Multi Vision Grind.	1
44.58.65350	Set 10 pcs. outer anti-spatter lenses Multi Vision Grind.	1
44.58.65335	Central anti-spatter lens 90 x 110 mm Multi Vision Grind.	1
44.58.60015	Complete set anti-spatter lenses Multi Vision Grind : 1x inner 1x outer 1x central lens.	1

### Multi Vision welding helmet, fix



The Multi Vision is a light-weight welding helmet with maximum protection for the welder, optimal user comfort, easy to use and a long lifetime. The unique design facilitates the option of a wide variety of lensholders. Is supplied complete with head harness, sweatband and welding lens shade 10. Available for various sizes of welding lenses.

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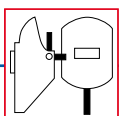
Product nr	Description	Lens size	Packing
44.43.61000	Multi Vision welding helmet complete, fix.	90 x 110 mm.	1/10
44.43.61010	Multi Vision welding helmet complete, fix.	51 x 108 mm.	1/10

### Multi Vision welding helmet, flip-up



The Multi Vision is a light-weight welding helmet with maximum protection for the welder, optimal user comfort, ease in usage and a long lifetime. Complete with head harness, sweatband and flip-up lensholder welding lens shade 10. Available for various sizes of welding lenses with and without leather chest protector.

Product nr	Description	Lens size	Packing
44.43.61020	Multi Vision welding helmet complete, flip-up.	51 x 108 mm.	1/10
44.43.61026	Multi Vision welding helmet complete, flip-up.	55 x 110 mm.	1/10
44.43.61027	Multi Vision welding helmet complete, flip-up.	60 x 110 mm.	1/10



## WELDING HELMETS AND WELDING HANDSHIELDS

### Multi Vision welding helmet, flip-up with chest protection



The Multi Vision flip-up with chest protection is a light-weight welding helmet with maximum protection for the welder, optimal user comfort, ease in usage and a long lifetime. Complete with head harness, sweatband and flip-up lensholder welding lens shade 10. Available for various sizes of welding lenses with and without leather chest protector.

Product nr	Description	Lens size	Packing
44.43.61023	Multi Vision welding helmet complete, flip-up with leather chest protection.	51 x 108 mm.	1/10

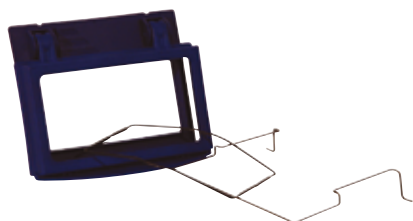
### Multi Vision welding helmet, unassembled



The Multi Vision is a light-weight welding helmet with maximum protection for the welder, optimal user comfort, easy in use and a long lifetime. The unique design facilitates the option of a wide variety of lensholders. The economical unmounted units save on transport and storage costs. Minimum quantity to order 10 pieces.

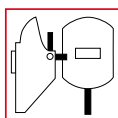
Product nr	Description	Lens size	Packing
44.43.61015	With fixed lensholder.	51 x 108 mm.	10
44.43.61025	With flip-up lensholder.	51 x 108 mm.	10
44.43.61035	With fixed lensholder.	90 x 110 mm.	10
44.43.61037	With flip-up lensholder.	60 x 110 mm.	10

### Welding helmets Multi Vision spare parts



Because of the wide variety of spare parts the Multi Vision welding helmets can be used in many welding processes and repairs can be handled swift and fast.

Product nr	Description	Lens size	Packing
44.44.61055	Frame.	51 x 108 mm.	1/25
44.44.61060	Frame.	55 x 110 mm.	1/25
44.44.61065	Frame.	60 x 110 mm.	1/25
44.44.61507	Spring for flip-up part of insert.	51 x 108 mm.	1/25
44.44.61525	Side knob blue for head harness.		1/500
44.44.61530	Head harness complete with sweatband, Euromodel.		1/40
44.44.61600	Frame.	91 x 110 mm.	1/25
44.44.61601	Fixed lens holder.	51 x 108 mm.	1/200



## WELDING HELMETS AND WELDING HANDSHIELDS

Product nr	Description	Lens size	Packing
44.44.61602	Flip-up lens holder.	51 x 108 mm.	1/100
44.44.61605	Cover spring inner side for automatic cassettes, inserts & lens holders.	90x110/51x108.	1/25
44.44.61610	Sweatband, self adhesive, wide model.		1/10
44.44.61612	Sweatband, self adhesive, small model.		10/100
44.44.61617	Cover frame (outside) for Spectralite anti-spatter lens.	90 x 106 mm.	1/25
44.44.61620	Body including covering spring.		1/20
44.44.61621	Body including covering spring and mounted leather chest protection.		1/10
44.44.61623	Leather chest protector, with snip snapon nails and rings.		1/10
44.44.70000	Leather sweatband for welding helmets, delux wide type.		1/10
44.44.61520	Spring clip for 60 x 110 mm and 55 x 110 mm.		1/25
44.44.61611	Sweatband blue with velcro strip.		1/10

### Multi Vision flip-up with safety helmet connector



Welding safety helmet combinations. Optionally a leather welding spatter protector is available that prevents spatters from falling between the welding helmet and the safety helmet.

Safety helmet not included.

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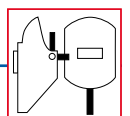
Product nr	Description	Packing
44.46.60580	Multi Vision with flip-up insert and Speedy 5000 quick lock, 51 x 108 mm.	1/10

### Quick fastener for welding helmet safety helmet combination



The spare parts of the quick connect system offer the option to change a standard welding helmet into a welding helmet that can be fitted on a safety helmet.

Product nr	Description	Packing
44.46.63517	Speedy quick lock for Multi Vision.	1/10



## Optrel e684 fully automatic welding helmet



The modern welder needs protective equipment optimised for maximum performance and efficiency. In order to allow welders to work with as few interruptions as possible, welding machine manufacturers are increasingly adding remote control to their welding torches. But how does this affect the welder who needs to control his shade level? If the welder has to manually adapt his shade level, the process will be interrupted once more. If he leaves the shade level setting unchanged, comfort levels plummet – e684 is the perfect solution.

Unique sensor technology allows the darkening filter to automatically select the shade level and continually adapts this to the relevant application and arc intensity during welding. Fine adjustment also allows the welder to adapt the automatically selected shade level to his personal eyesight sensitivity. All of which means the welding process isn't interrupted at all. Maximum efficiency and comfort are guaranteed.

Total weight 500 g

EN379 1/1/1/1

EN175 B (120m/s impact resistance)

Product nr	Description	Optrel no.	Packing
44.49.91760	Optrel e684, gray/green.	1006.500	1/1
44.49.91765	Optrel e684 Welding helmet & Hard hat, gray/green.	1006.550	1/1

## Optrel Cartridge e680



Cartridge details:

Size of darkening filter/field of vision: 90x110x7mm / 50x100mm  
 Eye protection: Maximum UV and IR protection with every shade level setting

Time taken to switch from light to dark: 0.170 ms at room temperature 0.110 ms at 55 °C

Time taken to switch from dark to light: 0.1 – 2.0 s with patented twilight technology

Energy supply: Solar cells and batteries (2x CR203), no need to switch on and off

Battery life: Around 3000 hours (operation)

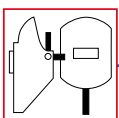
Working temperature: -10 °C to +70 °C

Guarantee: 2 years from date of sales for manufacturing and material defects (except batteries). 1 additional year after online registration within the first 6 months. [www.optrel.com/register](http://www.optrel.com/register)

Certificates: CE, ANSI, AS/NZS, EAC, complies with CSA Z94.3

EN379 1/1/1/1

Product nr	Description	Optrel no.	Packing
44.49.91770	ADF Cartridge Optrel e684.	5012.480	1/1

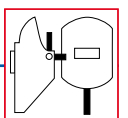




## WELDING HELMETS AND WELDING HANDSHIELDS

### Optrel e684 spare parts

Product nr	Description	Optrel no.	Packing
44.49.90245	Front cover lens for e600 helmets.	5000.210	2
44.49.90250	Front cover lens for e600 helmets.	5000.212	5
44.49.91705	Inside cover lens for e684.	5000.001	5
44.49.91725	Magnifying lens Diopter 1.00 for e684.	5000.050	1/5
44.49.91730	Magnifying lens Diopter 1.50 for e684.	5000.051	1/5
44.49.91735	Magnifying lens Diopter 2.00 for e684.	5000.052	1/5
44.49.91740	Magnifying lens Diopter 2.50 for e684.	5000.053	1/5
44.49.95325	Complete head band with sweatband.	5003.250	1
44.49.95410	Cotton Sweatband.	5004.073	2
44.49.90255	Leather chest and chin protector.	4028.015	1
44.49.91500	Repair set 1 e600-range.	5003.500	1



## Optrel e680



The optrel e680 helmet was designed especially for welding experts with varying job requirements and a need for an extensive range of individual adjustment options. It is the only helmet to allow the wearer to select between DIN 5 to DIN 13 shade levels and can be used with a very wide range of welding methods and amperages without any restrictions.

The true colour filter gives the welder a wider view of the weld object and all machine displays. Red LED's on the welding machine can be read without the user having to remove his helmet.

It's not just in the areas of comfort and safety that the optrel e680 offers an unsurpassed level of perfection but in terms of its additional functions too.

Total weight 490 g

EN379 1/1/1/2

EN175 B (120m/s slagbestendigheid)

Product nr	Description	Optrel no.	Packing
44.49.91661	Optrel e680, black unpainted.	1006.190	1/1
44.49.91665	Optrel e680, dark blue.	1006.110	1/10
44.49.91675	Optrel e680, titan.	1006.130	1/10

## Optrel Cartridge e680



Cartridge details:

Size of darkening filter/field of vision: 90x110x7mm / 50x100 mm

Eye protection: Maximum UV and IR protection with every shade level setting

Time taken to switch from light to dark: 0.180 ms at room temperature 0.120 ms at 55 °C

Time taken to switch from dark to light: Slow: 0.35 – 0.6 s Fast: 0.1 – 0.35 s

Energy supply: Solar cells and batteries (2x CR203), no need to switch on and off

Battery life: Around 2500 hours (operation)

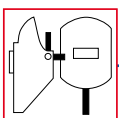
Working temperature: -10 °C to +70 °C

Guarantee: 3 years (except batteries)

Certificates: CE, ECS, ANSI, AS/NZS, GOST-R

EN379 1/1/1/2

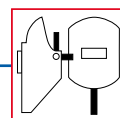
Product nr	Description	Optrel no.	Packing
44.49.91680	ADF Cartridge Optrel e680.	5012.400	1/1



## WELDING HELMETS AND WELDING HANDSHIELDS

### Optrel e680 spare parts

Product nr	Description	Optrel no.	Packing
44.49.90245	Front cover lens for e600 helmets.	5000.210	2
44.49.90250	Front cover lens for e600 helmets.	5000.212	5
44.49.91705	Inside cover lens for e680.	5000.001	5
44.49.91725	Magnifying lens Diopter 1.00 for e680.	5000.050	1/5
44.49.91730	Magnifying lens Diopter 1.50 for e680.	5000.051	1/5
44.49.91735	Magnifying lens Diopter 2.00 for e680.	5000.052	1/5
44.49.91740	Magnifying lens Diopter 2.50 for e680.	5000.053	1/5
44.49.95325	Complete head band with sweatband.	5003.250	1
44.49.95410	Cotton Sweatband.	5004.073	2
44.49.90255	Leather chest and chin protector.	4028.015	1
44.49.91500	Repair set 1 e600-range.	5003.500	1



## WELDING HELMETS AND WELDING HANDSHIELDS

### Optrel e670



The modern welder needs protective equipment optimised for maximum performance and efficiency. In order to allow welders to work with as few interruptions as possible, welding machine manufacturers are increasingly adding remote control to their welding torches. But how does this affect the welder who needs to control his shade level? If the welder has to manually adapt his shade level, the process will be interrupted once more. If he leaves the shade level setting unchanged, comfort levels plummet – e670 is the perfect solution.

Unique sensor technology allows the darkening filter to automatically select the shade level and continually adapts this to the relevant application and arc intensity during welding. Fine adjustment also allows the welder to adapt the automatically selected shade level to his personal eyesight sensitivity. All of which means the welding process isn't interrupted at all. Maximum efficiency and comfort are guaranteed.

Total weight: 490 g

EN379 1/1/1/2

EN175 B (120m/s impact resistance)

Product nr	Description	Optrel no.	Packing
44.49.91640	Optrel e670, black unpainted.	1006.200	1/1
44.49.91645	Optrel e670, cosmic green.	1006.210	1/1
44.49.91645	Optrel e670, titan.	1006.230	1/1

### Optrel Cartridge e670



Cartridge details:

Size of darkening filter/field of vision: 90x110x7 mm / 50x100 mm  
Eye protection: Maximum UV and IR protection with every shade level setting

Time taken to switch from light to dark: 0.180 ms at room temperature 0.120 ms at 55 °C

Time taken to switch from dark to light: SI: 0.35 – 0.6 s

Fast: 0.1 – 0.35 s

Energy supply: Solar cells and batteries n (2x CR203), no need to switch on and off

Battery life: Around 2500 hours (operation)

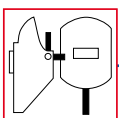
Working temperature: -10 °C to +70 °C

Guarantee: 3 years (except batteries)

Certificates: CE, ECS, ANSI, AS/NZS, GOST-R

EN379 1/1/1/2

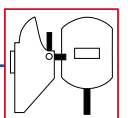
Product nr	Description	Optrel no.	Packing
44.49.91682	ADF Cartridge Optrel e670.	5012.420	1/10



## WELDING HELMETS AND WELDING HANDSHIELDS

### Optrel e670 spare parts

Product nr	Description	Optrel no.	Packing
44.49.90245	Front cover lens for e600 helmets.	5000.210	2
44.49.90250	Front cover lens for e600 helmets.	5000.212	5
44.49.91705	Inside cover lens for e670.	5000.001	5
44.49.91725	Magnifying lens Diopter 1.00 for e670.	5000.050	1/5
44.49.91730	Magnifying lens Diopter 1.50 for e670.	5000.051	1/5
44.49.91735	Magnifying lens Diopter 2.00 for e670.	5000.052	1/5
44.49.91740	Magnifying lens Diopter 2.50 for e670.	5000.053	1/5
44.49.95325	Complete head band with sweatband.	5003.250	1
44.49.95410	Cotton Sweatband.	5004.073	2
44.49.90255	Leather chest and chin protector.	4028.015	1
44.49.91500	Repair set 1 e600-range.	5003.500	1



## Optrel e650



Comfort and individual scope for adaptation, a large viewing area and consistent quality make the optrel e650 an optimum working tool for most welding methods. In addition to the infinitely variable shade level (can be set between levels 9–13), the helmet offers a continuously variable sensitivity control and opening delay function. All functions can be selected and adjusted from outside the helmet and therefore guarantee maximum comfort and efficiency.

Total weight: 490 g

EN379 1/1/1/2

EN175 B (120m/s impact resistance)

Product nr	Description	Optrel no.	Packing
44.49.91620	Optrel e650, black unpainted.	1006.300	1/1
44.49.91625	Optrel e650, shiny ruby.	1006.310	1/1
44.49.91630	Optrel e650, medium blue.	1006.380	1/1

## Optrel Cartridge e650



Cartridge details:

Size of darkening filter/field of vision: 90x110x7 mm / 50x100 mm  
 Eye protection: Maximum UV and IR protection with every shade level setting

Time taken to switch from light to dark: 0.180 ms at room temperature 0.120 ms at 55 °C

Time taken to switch from dark to light: Slo : 0.35 – 0.6 s

Fast: 0.1 – 0.35 s

Energy supply: Solar cells and batteries (2x CR203), no need to switch on and off

Battery life: Around 2500 hours (operation)

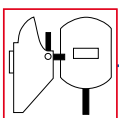
Working temperature: –10 °C to +70 °C

Guarantee: 3 years (except batteries)

Certificates: CE, ECS, ANSI, AS/NZS, GOST-R

EN379 1/1/1/2

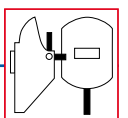
Product nr	Description	Optrel no.	Packing
44.49.91684	ADF Cartridge Optrel e650.	5012.440	1/10



## WELDING HELMETS AND WELDING HANDSHIELDS

### Optrel e650 spare parts

Product nr	Description	Optrel no.	Packing
44.49.90245	Front cover lens for e600 helmets.	5000.210	2
44.49.90250	Front cover lens for e600 helmets.	5000.212	5
44.49.91705	Inside cover lens for e650.	5000.001	5
44.49.91725	Magnifying lens Diopter 1.00 for e650.	5000.050	1/5
44.49.91730	Magnifying lens Diopter 1.50 for e650.	5000.051	1/5
44.49.91735	Magnifying lens Diopter 2.00 for e650.	5000.052	1/5
44.49.91740	Magnifying lens Diopter 2.50 for e650.	5000.053	1/5
44.49.95325	Complete head band with sweatband.	5003.250	1
44.49.95410	Cotton Sweatband.	5004.073	2
44.49.90255	Leather chest and chin protector.	4028.015	1
44.49.91500	Repair set 1 e600-range.	5003.500	1



## WELDING HELMETS AND WELDING HANDSHIELDS

### Optrel e640



Thanks to the extremely high quality filter and use of the expert helmet shell, the welder benefits the standard DIN 10 and DIN 11 function plus comfort and protection benefits.

The welder can adjust the shade level to suit his requirements using the slide switch on the rear of the filter. It can be set to either DIN 10 or DIN 11. The detection angle for ambient light can also be adjusted using the sensor bar.

Total weight: 490 g

EN379 1/1/1/2

EN175 B (120m/s impact resistance)

Product nr	Description	Optrel no.	Packing
44.49.91600	Optrel e640, black unpainted.	1006.400	1/1

### Optrel Cartridge e640



Cartridge details:

Size of darkening filter/field of vision: 90x110x7 mm / 50x100 mm

Eye protection: Maximum UV and IR protection with every shade level setting

Time taken to switch from light to dark: 0.180 ms at room

temperature 0.120 ms at 55 °C

Time taken to switch from dark to light: Slow: 0.35 – 0.6 s

Fast: 0.1 – 0.35 s

Energy supply: Solar cells and batteries (2x CR203), no need to switch on and off

Battery life: Around 2500 hours (operation)

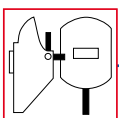
Working temperature: -10 °C to +70 °C

Guarantee: 3 years (except batteries)

Certificates: CE, ECS, ANSI, AS/NZS, GOST-R

EN379 1/1/1/2

Product nr	Description	Optrel no.	Packing
44.49.91686	ADF Cartridge Optrel e640.		1/10



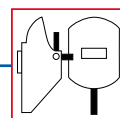


## WELDING HELMETS AND WELDING HANDSHIELDS

### Optrel e640 spare parts

Product nr	Description	Optrel no.	Packing
44.49.90245	Front cover lens for e600 helmets.	5000.210	2
44.49.90250	Front cover lens for e600 helmets.	5000.212	5
44.49.95032	Inside cover lens for e640.	5000.300	5
44.49.95033	Inside cover lens dark green + 2 shade level for e640.	5000.350	5/25
44.49.95043	Inside cover lens blue +1 shade level for e640.	5000.450	5/25
44.49.95050	Magnifying lens Diopter 1.00 for e640.	5000.500	1/5
44.49.95060	Magnifying lens Diopter 1.50 for e640.	5000.600	1/5
44.49.95070	Magnifying lens Diopter 2.00 for e640.	5000.700	1/5
44.49.95080	Magnifying lens Diopter 2.50 for e640.	5000.800	1/5
44.49.95325	Complete head band with sweatband.	5003.250	1
44.49.95410	Cotton Sweatband.	5004.073	2
44.49.90255	Leather chest and chin protector.	4028.015	1
44.49.91500	Repair set 1 e600-range.	5003.500	1

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## Optrel automatic welding helmet Optrel Solarmatic Comfort (OSC)



Extra comfortable welding helmet Optrel Solarmatic Comfort (OSC) with automatic colour control from shade 9 till 13. Because of the solar cells there are no on/off switches and battery replacements are not required. A sensorbridge excludes the possible influence of light from other sources. Optrel OSC automatic welding helmets are supplied complete with an unmounted headband. Colour is black.

Switching speed light/dark 0,4 ms at roomtemperature, 0,1 ms at 55 °C. Total weight 480 grams.

EN379: 1/1/1/3

EN175: S (45m/s impact resistance)

Product nr	Description	Optrel no.	Packing
44.49.90105	OSC welding helmet inclusive 2 spare anti-spatter lenses (outside).	1000.053	10

## Optrel Cartridge OSC



Cartridge details:

Size of darkening filter/field of vision: 90x110x7 mm / 38x98 mm  
 Eye protection: Maximum UV and IR protection with every shade level setting

Time taken to switch from light to dark: 0.4 ms at room temperature 0.1 ms at 55 °C

Time taken to switch from dark to light: Fast 0.1 – 0.35 s  
 Slow: 0.35 – 0.6 s

Energy supply: Solar cells and batteries, no need to switch on and off

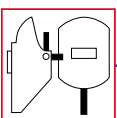
Working temperature: -10 °C to +70 °C

Guarantee: 2 years

Certificates: CE, ECS, ANSI, AS/NZS, GOST-R

EN379: 1/1/1/3

Product nr	Description	Optrel no.	Packing
44.49.93003	Electronic cartridge for OSC welding helmet.	5012.046	1/5

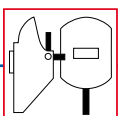
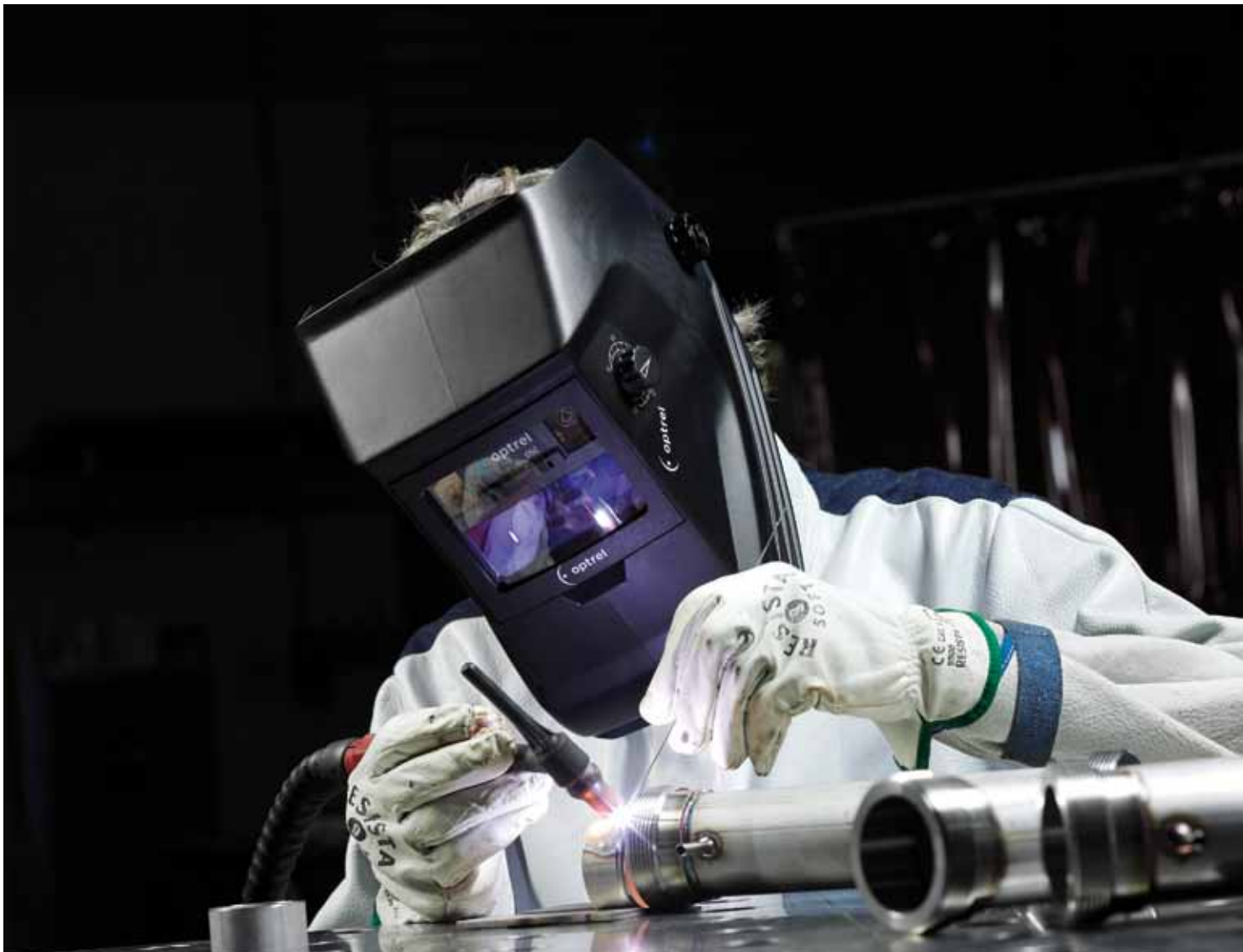


## WELDING HELMETS AND WELDING HANDSHIELDS

### Optrel OSC spare parts

Product nr	Description	Optrel no.	Packing
44.49.95009	Front cover lens OSC.	5000.105	10
44.49.95032	Inside cover lens for OSC.	5000.300	5
44.49.95033	Inside cover lens dark green + 2 shade level for OSC.	5000.350	5/25
44.49.95038	Inside cover lens light green +1.5 shade level for OSC.	5000.400	5/25
44.49.95043	Inside cover lens blue +1 shade level for OSC.	5000.450	5/25
44.49.95050	Magnifying lens Diopter 1.00 for OSC.	5000.500	1/5
44.49.95060	Magnifying lens Diopter 1.50 for OSC.	5000.600	1/5
44.49.95070	Magnifying lens Diopter 2.00 for OSC.	5000.700	1/5
44.49.95080	Magnifying lens Diopter 2.50 for OSC.	5000.800	1/5
44.49.95047	Coverlens for outer anti spatter lens.	5000.490	1/5
44.49.95106	Body, black, without filtercassette for OSC.	5001.055	1/5
44.49.95325	Complete head band with sweatband for OSC.	5003.250	1/5
44.49.95410	Sweatbands for OSC welding helmets.	5004.073	2/100
44.49.95801	Leather chest protector with velcro tape for OSC.		1/5

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## WELDING HELMETS AND WELDING HANDSHIELDS

### Optrel p550



The pro range from optrel is a selection of helmets perfect for common welding methods. The good quality of the ADF combined with the optrel p550 helmet shell guarantee a long life and good standard for welders. The popular optrel headband and scope for adding the patented hard hat adapter also ensure that this range offers great comfort and protection. Thanks to the newly developed side cover concept, the welder can change the way his helmet looks time and again.

Shade level 4/9-13.  
Control unit outside the helmet.  
Comfortable headband.  
Sensitivity control.  
Opening delay.  
Hard hat can also be worn.

Total weight with/without side covers: 520 g/495 g

EN 379 1/2/1/2

EN 175 B (120m/s impact resistance)

Product nr	Description	Optrel no.	Packing
44.49.96040	Optrel p550 Carbon.	1007.073	1/1
44.49.96000	Optrel p550 black unpainted (without side covers).	1007.000	1/1
44.49.96010	Optrel p550 black-green.	1007.010	1/1
44.49.96020	Optrel p550 black-white.	1007.020	1/1

### Optrel Cartridge p550



Cartridge details:

Size of darkening filter/field of vision: 90x110x7 mm / 50x100 mm  
Eye protection: Maximum UV and IR protection with every shade level setting.

Time taken to switch from light to dark: 0.220 ms at room temperature 0.165 ms at 55 °C.

Time taken to switch from dark to light: 0.25 – 0.7 s, continuously variable selection.

Energy supply: Solar cells and batteries, no need to switch on and off.

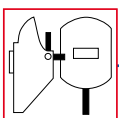
Working temperature: -10 °C to +70 °C.

Guarantee: 2 years (not including batteries).

Certificates: CE, ECS, ANSI, GOST-R.

EN379 1/2/1/2

Product nr	Description	Optrel no.	Packing
44.49.96700	Cartridge for Optrel p550.	5012.700	1/1
44.49.96900	Front cover lens for p500 range.	5000.250	5



## Optrel Cartridge b020



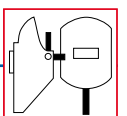
ADF (Automatic Darkening Filter) Cartridge with solar cells (no battery change required) featuring shade level DIN 3/11 or DIN 3/10 for upgrading welding helmets with passive filters to active welding helmets.

Cartridge dimensions: 50,8 x 108 x 5,3 mm (2" x 4 1/4" x 0,21")

Viewing area: 92 x 35 mm (3,62" x 1,38")

Shade level: DIN 3/10

Product nr	Description	Optrel no.	Packing
44.48.24470	Optrel b020 cartridge, 51 x 108 mm, with lens shade 10.	5012.202	1/10
44.48.24477	Lens shade 1 green for Optrel b020 electronic cartridge.	5000.360	5/25
44.48.24476	Inner anti-spatter lens for Optrel b020 electronic cartridge.	5000324	5/25



## Optrel weldCAP



### Vision - courage - responsibility

Only true pioneers have visionary thinking, courage to act and a willingness to take responsibility: after 27 years of evolutionary product development, optrel is opening a new chapter in the history of welding helmets and, for a second time, it has re-invented the auto-darkening protection for welders.

Since the optrel weldcap® is neither a welding helmet nor a welding mask, optrel had to invent beside the product, also a new name for the product category. Hence the name says it all, because the weldcap® stands for an auto-darkening welder's cap that brings together the comfort of a casual cap and the advantages of a full welding helmet. The heart of this innovative product is the optical unit featuring a well-defined nose cut out. Thereby the visual unit is placed closer to the eyes compared to traditional welding helmets, which helps to increase the welder's line of sight by 2.7 times! Moreover, because of this, the weight shifts closer to the centre of gravity so that the weldcap® is excellently counterbalanced and the load on the back of the welder's neck is significantly reduced. The optrel weldcap® weighs only 390 grams, so it is an absolutely lightweight. It relieves the welder of about 200 kg load capacity over a year, when compared to conventional welding helmets. Darkening levels from 9 to 12 cover the majority of welding applications and with a protection level 3 in its general mode, the welder has a bright and well-lit view of the work-place. This feature predestinates the optrel weldcap® for grinding jobs as well. The optrel weldcap® is also completely hygienic. The textile part is robust and easily detachable, and is made of easily-washable, flame retarded fabric.

Type description: Light weight compound welding mask with large viewing area, automatic darkening filter and bright see-through state; shade selection DIN 9 - 12; infinitely variable by an adjustment knob; grinding mode; low battery warning LED.

Power supply: 2 pcs LI-batteries 3V exchangeable (CR2032) No need to switch on-off.

Viewing area:

Viewing angle downwards: +37°

Viewing angle sideways: +25°

Operating time batteries: 1000 h

Sensors: Wide angle detection sensor

Light transmittance: Ultraviolet/infrared protection (maximum at any shade setting) Visible range activated shade level DIN 9-12

Visible range not activated shade level DIN 3

Switching time: Light to dark at room temperature 0.16 ms Light to dark at 55°C / 131°F 0.110 ms Dark to light 0.3

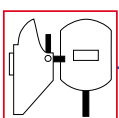
EN 379 1/1/2/2

EN 175 B (120m/s impact resistance)

EN ISO 11611 (Class 1)

EN ISO 11612 (Class A/B1/C1/E3/F1)

Product nr	Description	Optrel no.	Packing
44.50.08000	Optrel weldCAP.	5008.000	1/1



## WELDING HELMETS AND WELDING HANDSHIELDS

### Optrel weldCAP spare parts

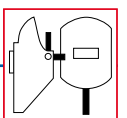
Product nr	Description	Optrel no.	Packing
44.50.00260	Front cover lenses.	5000.260	5
44.50.00040	Inside cover lenses.	5000.040	5
44.50.02700	Nose rest.	5002.700	5
44.50.02800	Textile Cap.	5002.800	1
44.50.02900	optrel Parking Buddy (Belt hook).	5002.900	1



• **optrel**  
**weldCAP**<sup>®</sup>  
radical. casual.

• **optrel**

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## WELDING HELMETS AND WELDING HANDSHIELDS

### Weldsafe welding helmet normal model



Vulcan fibre welding helmet with fixed lensholder for lens size 51 x 108 mm. Colour black, waterrepellent. The Vulcan fibre welding helmet is made out of one piece, has a removable headband and is available with a fixed and flip-up lensholder. Lens included.

Product nr	Description	Lens size	Packing
44.43.60510	With fixed insert.	51 x 108 mm.	1/10
44.43.60520	With flip-up insert.	51 x 108 mm.	1/10
44.43.60540	With flip-up and leather chest protection.	51 x 108 mm.	1/10

### Weldsafe welding helmet baby model



Vulcan fibre baby welding helmet, colour black, waterrepellent. The Vulcan fiber welding helmet is made out of one piece, has a removable headband and is available with a fixed and flip-up lensholder. Lens included.

The small model makes this helmet especially suitable for welding in confined spaces.

Product nr	Description	Lens size	Packing
44.43.60550	With fixed insert.	51 x 108 mm.	1/10
44.43.60560	With flip-up insert.	51 x 108 mm.	1/10

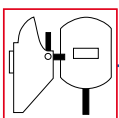
### Weldsafe welding helmet baby model with leather breast protection



Vulcan fibre baby welding helmet with flip-up lensholder and leather chest protector lens size 51 x 108 mm. Colour black, water repellent. The Vulcan fibre welding helmet is made out of one piece, has a removable headband and is available with a fixed and flip-up lensholder. Lens included.

The leather chest piece protects from welding spatters and prevents the welding smoke from coming in the helmet.

Product nr	Description	Lens size	Packing
44.43.60590	With flip-up insert, and leather chest protection.	51 x 108 mm.	1/10





## WELDING HELMETS AND WELDING HANDSHIELDS

### Weldsafe welding helmet spare parts



The various spare parts ensure the longtime use of the Weldsafe welding helmets.

Product nr	Description	Lens size	Packing
44.44.61055	Frame 51 x 108 mm.	51 x 108 mm.	1/25
44.44.61506	Spring for fixed part of insert.		1/25
44.44.61507	Spring for flip-up part of insert.	51 x 108 mm.	1/25
44.44.61508	Assembly screw lensholder.		1/1000
44.44.61530	Head harness complete with sweatband, Euromodel.		1/40
44.44.61511	Complete lensholder, fixed.	51 x 108 mm.	1/50
44.44.61512	Complete lensholder, flip-up.	51 x 108 mm.	1/50
44.44.61610	Sweatband with adhesive strip.		1/10
44.44.61622	Leather chest protector, large model, with assembly holes.		1/100
44.44.61625	Leather chest protector, small model for Weldsafe Fibre baby welding helmet, complete with assembly snap-on set.		1/10
44.44.70000	Leather sweatband for welding helmets, wide delux model.		1/10
44.44.61611	Sweatband blue with velcro strip.		1/10

### Weldsafe leather welding helmet



Leather Weldsafe welding helmet type 870, redbrown heatresistant impregnated leather, fully Kevlar stitched; flip-up lens holder. The flexibility of the welding helmet makes welding in confined areas possible.

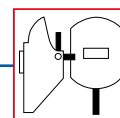
Product nr	Description	Lens size	Packing
44.43.63090	Type 870.	51 x 108 mm.	1/10

### Welding helmet MC 1010



Economical welding helmet, available for the lens sizes 51 x 108 mm and 90 x 110 mm. Lenses included, unmounted.

Product nr	Description	Lens size	Packing
44.42.60110	Welding shield MC 1010.	90 x 110 mm.	1/30
44.42.60113	Welding helmet MC 1010 flip up version.	51 x 108 mm.	1/1



## WELDING HELMETS AND WELDING HANDSHIELDS

### Shadow welding helmet



The Shadow is a lightweight thermoplastic welding helmet with an optimal view. The Shadow welding helmet is black and is supplied with a fixed lensholder for lens sizes 114 x 133 mm. Supplied complete with head band and sweatband, inclusive of welding and anti spatter lens.

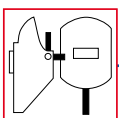
Product nr	Description	Lens size	Packing
44.43.60004	Shadow welding helmet.	114 x 133 mm.	1/1

### Shadow welding helmet spare parts



The availability of spare parts makes repairs on the Shadow welding helmet possible.

Product nr	Description	Lenssize	Packing
44.43.60007	Complete head band.		1/1
44.43.60008	Set of side knobs with positioner.		1/1
44.43.60009	Spring to position lens.		1/1
44.43.60010	Neoprene gasket 114 x 133 mm.	114 x 133 mm.	1/1
44.43.60011	Neoprene gasket 51 x 108 mm.	51 x 108 mm.	1/1



## WELDING HELMETS AND WELDING HANDSHIELDS

### Weldsafe handheld welding shields (Weldy)



Sturdy and durable handheld welding shield. An old faithful shield which has proven its services especially in heavy duty circumstances.

Made of glassfibre reinforced polyester with a removable handle. Available in 2 lens sizes: 51 x 108 mm and 100 x 120 mm.

DIN EN 175:1997

Product nr	Description	Lens size	Packing
44.40.70050	Weldy.	51 x 108 mm.	1/10
44.40.70100	Weldy.	60 x 110 mm.	1/10
44.40.70100	Weldy.	100 x 120 mm.	1/10

### Handheld welding shields spare parts



The various spare parts ensure the longtime use of the Weldsafe handheld welding shields.

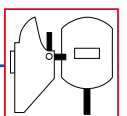
Product nr	Description	Lens size	Packing
44.44.61053	Removable handle with nut for Handy Vision handheld welding shield.		1/100
44.44.61055	Frame for Weldy and Handy Vision welding shield.	51 x 108 mm.	1/10
44.44.61102	Complete insert for Weldy and Handy Vision handheld welding shield.	100 x 120 mm.	1/50
44.44.61252	Complete insert for Weldy and Handy Vision handheld welding shield.	51 x 108 mm.	1/100

### Handy handheld welding shield



The Handy handheld supervisor shield is made of heatresistant glass fibre reinforced polyester, colour black. The Handy is a round model with a removable lens holder for lens size 51 x 108. The handle is on the outside and is made of plastified aluminium.

Product nr	Description	Lens size	Packing
44.40.70285	Handy.	51 x 108 mm.	1/5



## WELDING HELMETS AND WELDING HANDSHIELDS

### K-1-H-Coverall handheld welding shield



The K-1-H-Coverall handheld welding shield is made of heat resistant glass fibre reinforced polyester, colour black. The Coverall is a round model with a removable lens holder for lenses size 51 x 108. The fixed handle is on the outside and is made of plastified aluminium.

The long shield protects face and ears.

Product nr	Description	Lens size	Packing
44.40.70240	K-1-H Coverall.	51 x 108 mm.	1/5

### Welding shield MM 1010



Economical handheld welding shield with the handle on the inner side. Lenses included, unmounted.

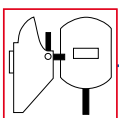
Product nr	Description	Lens size	Packing
44.41.62306	Welding shield MM 1010.	90 x 110 mm.	1/75
44.41.62308	Welding shield MM 1010.	51 x 108 mm.	1/60

### TIG welding masks



TIG welding mask with flip-up welding goggle and leather face protection of 38 cm. With round welding lenses, diameter of 50 mm shade 10 in flip-up part and, Spectralite anti spatter lenses in flip-up and fixed part.

Product nr.	Description	Lens size	Packing
44.55.52338	TIG welding mask.	Ø 50 mm	1/5
44.55.52348	TIG welding mask with leather welding cap.	Ø 50 mm	1/5
44.55.52358	TIG welding mask with leather welding cap and neck protector.	Ø 50 mm	1/5



## WELDING HELMETS AND WELDING HANDSHIELDS

### Lenses for welding goggles and TIG masks

Product nr	Description	Packing
39.55.78003	Lens, round 50 mm, green shade 3.	2/200
39.55.78003	Lens, round 50 mm, green shade 3.	2/200
39.55.78005	Lens, round 50 mm, green shade 5.	2/200
39.55.78006	Lens, round 50 mm, green shade 6.	2/200
39.55.78007	Lens, round 50 mm, green shade 7.	2/200
39.55.78010	Lens, round 50 mm, green shade 10.	2/200
39.55.78011	Lens, round 50 mm, green shade 11.	2/200
39.55.78012	Lens, round 50 mm, green shade 12.	2/200
39.55.78013	Lens, round 50 mm, green shade 13.	2/200
39.55.79051	Hardened glass, clear, round 50 mm.	1/100
39.55.79150	Anti spatter lens CR-39 spectralite, round 50 mm.	2/200
39.55.79152	Lens clear acetate, round 50 mm.	1/200

### Leather lens holders



Leather welding lens holder for inspection purposes and for very hard to reach places.

EN ISO 11611:2007

Product nr	Description	Packing
44.52.64465	Leather lens holder model 465, lens size 51 x 108 mm.	1/5

### Weldsafe welding lenses



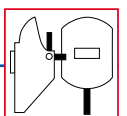
Weldsafe welding lenses with marking of CE and shade nr. Packed per piece in a transparent bag, wrapped per 10 pieces. Available in various lens sizes.

Welding and anti spatter lenses in deviating sizes are available on request. Welding and anti spatter lenses up to a size of 30 x 30 cm can be packed by us without the chance to breaking during transport. Larger sizes are delivered Ex works or at the customer's risk.

DIN EN 169

### Weldsafe welding lenses 50 x 105

Product nr	Description	Packing
44.55.64009	50 x 105 mm, shade 9.	10/100
44.55.64010	50 x 105 mm, shade 10.	10/100
44.55.64011	50 x 105 mm, shade 11.	10/100
44.55.64012	50 x 105 mm, shade 12.	10/100



## WELDING HELMETS AND WELDING HANDSHIELDS

### Weldsafe welding lenses 51 x 108

Product nr	Description	Packing
44.55.64108	51 x 108 mm, shade 8.	10/100
44.55.64109	51 x 108 mm, shade 9.	10/100
44.55.64110	51 x 108 mm, shade 10.	10/100
44.55.64111	51 x 108 mm, shade 11.	10/100
44.55.64112	51 x 108 mm, shade 12.	10/100
44.55.64113	51 x 108 mm, shade 13.	10/100
44.55.64114	51 x 108 mm, shade 14.	10/100

### Weldsafe welding lenses 55 x 110

Product nr	Description	Packing
44.55.64408	55 x 110 mm, shade 8.	10/100
44.55.64409	55 x 110 mm, shade 9.	10/100
44.55.64410	55 x 110 mm, shade 10.	10/100
44.55.64411	55 x 110 mm, shade 11.	10/100
44.55.64412	55 x 110 mm, shade 12.	10/100
44.55.64413	55 x 110 mm, shade 13.	10/100
44.55.64414	55 x 110 mm, shade 14.	10/100

### Weldsafe welding lenses 60 x 110

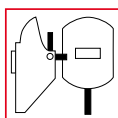
Product nr	Description	Packing
44.55.64208	60 x 110 mm, shade 8.	10/100
44.55.64209	60 x 110 mm, shade 9.	10/100
44.55.64210	60 x 110 mm, shade 10.	10/100
44.55.64211	60 x 110 mm, shade 11.	10/100
44.55.64212	60 x 110 mm, shade 12.	10/100
44.55.64213	60 x 110 mm, shade 13.	10/100
44.55.64214	60 x 110 mm, shade 14.	10/100

### Weldsafe welding lenses 90 x 110

Product nr	Description	Packing
44.55.64308	90 x 110 mm, shade 8.	10/100
44.55.64309	90 x 110 mm, shade 9.	10/100
44.55.64310	90 x 110 mm, shade 10.	10/100
44.55.64311	90 x 110 mm, shade 11.	10/100
44.55.64312	90 x 110 mm, shade 12.	10/100
44.55.64313	90 x 110 mm, shade 13.	10/100

### Weldsafe welding lenses 100 x 120

Product nr	Description	Packing
44.55.64508	100 x 120 mm, shade 8.	10/50
44.55.64509	100 x 120 mm, shade 9.	10/100/50
44.55.64510	100 x 120 mm, shade 10.	10/50
44.55.64511	100 x 120 mm, shade 11.	10/50
44.55.64512	100 x 120 mm, shade 12.	10/50
44.55.64513	100 x 120 mm, shade 13.	10/50
44.55.64514	100 x 120 mm, shade 14.	10/50

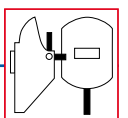


## WELDING HELMETS AND WELDING HANDSHIELDS

### Weldsafe welding lenses 114 x 133

Product nr	Description	Packing
44.55.63908	114 x 133 mm, shade 8.	10/50
44.55.63909	114 x 133 mm, shade 9.	10/50
44.55.63910	114 x 133 mm, shade 10.	10/50
44.55.63911	114 x 133 mm, shade 11.	10/50
44.55.63912	114 x 133 mm, shade 12.	10/50
44.55.63913	114 x 133 mm, shade 13.	10/50

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## WELDING HELMETS AND WELDING HANDSHIELDS

### Weldsafe welding lenses with mirror coating



Weldsafe welding lenses with gold-mirror coating, which reflects the heat of the weld and comforts the eye and face. Packed per piece in a transparent bag, wrapped per 10 pieces. Available in various lens sizes.

Meets the requirements of EN 166.

DIN EN 169

### Weldsafe welding lenses 51 x 108 mirror coating

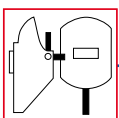
Product nr	Description	Packing
44.55.67007	51 x 108 mm, shade 7.	10/100
44.55.67008	51 x 108 mm, shade 8.	10/100
44.55.67009	51 x 108 mm, shade 9.	10/100
44.55.67010	51 x 108 mm, shade 10.	10/100
44.55.67011	51 x 108 mm, shade 11.	10/100
44.55.67012	51 x 108 mm, shade 12.	10/100
44.55.67013	51 x 108 mm, shade 13.	10/100

### Weldsafe welding lenses 90 x 110 mirror coating

Product nr	Description	Packing
44.55.67209	90 x 110 mm, shade 9.	10/100
44.55.67210	90 x 110 mm, shade 10.	10/100
44.55.67211	90 x 110 mm, shade 11.	10/100
44.55.67212	90 x 110 mm, shade 12.	10/100

### Weldsafe welding lenses 100 x 120 mirror coating

Product nr	Description	Packing
44.55.67309	100 x 120 mm, shade 9.	10/100
44.55.67310	100 x 120 mm, shade 10.	10/100
44.55.67311	100 x 120 mm, shade 11.	10/100
44.55.67312	100 x 120 mm, shade 12.	10/100





## WELDING HELMETS AND WELDING HANDSHIELDS

### Weldsafe goldcoated synthetic welding lenses



Weldsafe gold-coated polycarbonate welding lenses, are unbreakable and lightweight.

Lenses meet the requirements of EN 166.

### Weldsafe goldcoated synthetic welding lenses 51 x 108

Product nr	Description	Packing
44.56.69409	51 x 108 mm, shade 9.	10/100
44.56.69410	51 x 108 mm, shade 10.	1/25
44.56.69410	51 x 108 mm, shade 11.	10/100
44.56.69411	51 x 108 mm, shade 12.	10/100

### Weldsafe goldcoated synthetic welding lenses 114 x 133

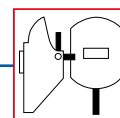
Product nr	Description	Packing
44.56.69610	114 x 133 mm, shade 10.	1/25
44.56.69611	114 x 133 mm, shade 11.	1/25
44.56.69612	114 x 133 mm, shade 12.	1/25

### Magnifying welding lens, 51 x 108 mm



The welding magnifier lenses are put on the inside of a welding helmet, they correct and enlarge the viewing area. Specially for welders with prescription glasses.

Product nr	Description	Packing
44.57.64901	Magnifying welding lens 1.0.	1/6
44.57.64902	Magnifying welding lens 1 1/4.	1/6
44.57.64903	Magnifying welding lens 1.5.	1/6
44.57.64904	Magnifying welding lens 1 3/4.	1/6
44.57.64905	Magnifying welding lens 2.0.	1/6
44.57.64906	Magnifying welding lens 2.5.	1/6
44.57.64907	Magnifying welding lens 2 1/4.	1/6



## Glass anti-spatter lenses



Anti spatter lenses are made of glass and protect the welding glass or automatic darkening filter against welding spatters.

The anti spatter lenses meet the requirements of EN 166.

Product nr	Description	Packing
44.58.65000	51 x 108 x 2 mm.	1/50
44.58.65001	50 x 105 x 2 mm.	1/50
44.58.65010	82 x 108 x 2 mm.	1/50
44.58.65015	60 x 110 x 2 mm.	1/50
44.58.65020	90 x 110 x 2 mm.	1/50
44.58.65030	100 x 120 x 2 mm.	1/50
44.58.65270	114 x 133 x 2 mm.	1/50

## Spectralite anti-spatter lenses



Anti spatter lenses of CR39 resists welding spatters.

The anti spatter lenses meet the requirements of EN 166.

Product nr	Description	Packing
44.58.65302	51 x 108 mm, packed in a bag.	1/100
44.58.65315	55 x 110 mm, packed in a bag.	1/100
44.58.65320	60 x 110 mm, packed in a bag.	1/100
44.58.65325	82 x 108 mm, packed in a bag.	1/100
44.58.65335	90 x 110 mm, packed in bag.	1/100
44.58.65340	100 x 120 mm, packed in bag.	1/100
44.58.65350	114 x 133 mm, packed in bag.	1/100

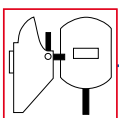
## Polycarbonate chipping/anti-spatter lenses Weldsafe



Weldsafe polycarbonate chipping/spatter lenses resists fast moving parts from welding, chipping and grinding activities.

Lenses meet the requirements of EN 166.

Product nr	Description	Packing
44.58.66302	51 x 108 mm.	1/50
44.58.66335	90 x 110 mm.	1/50



Tabel for selecting spatter glasses

Lasproces Welding process Schweisprozess	Amperage / Current / Ampere																								
	0,5	1	2,5	5	10	15	20	30	40	60	80	100	125	150	175	200	225	250	275	300	350	400	450	500	
Beklede elektrode Covered electrode Bedekttes Elektrode								9		10		11					12						13		
MIG/staal MIG/steel MIG/Stahl											10		11				12						13		
MIG/non ferro MIG/non ferro MIG/Nicht Eisen											10		11				12					13		14	
TIG TIG WIG						9		10		11		12				13						14			
MAG MAG MAG										10		11		12		13						14		16	
Plasmasnijden Plasma jet cutting Plasma Schneiden												11				12						13			
Plasmalassen Plasma arc welding Plasma Schweißen												12			13							14		15	
Gutsen Gouching Fugen																10		11		12		13		14	15
	0,5	1	2,5	5	10	15	20	30	40	60	80	100	125	150	175	200	225	250	275	300	350	400	450	500	

