

weldcap<sup>®</sup> hard  
radical. casual.

Join the revolution.

optrel<sup>®</sup>  
swiss made 



Automatically better welding



### Best protection and comfort

Compatible with standard hard hats. Mount the weldcap® hard with a minimum of efforts on your industrial helmet. The cap's design accommodates the use of ear muffs.



### Multi-purpose use at utmost protection

**Welding:**  
Darkening levels from 9 to 12 cover the majority of welding applications.

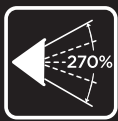


**Grinding:**  
With its Shade level 3 in not activated mode, the welder has a bright and well-lit view of the work-place. This feature predestinates the optrel weldcap® hard for grinding jobs as well.



### Swift handling

Like a cap; easy to mount and unmount again. Stow it in the optrel parking buddy, when it's not used.



### Extensive field of view

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 which enlarges the welder's line of sight by 3 times! This increases the lateral and the horizontal fields of vision and the welders' performance and safety.



### Minimal weight

The optrel weldcap® weighs only 411g / 14.5 oz. and is an absolute lightweight. Since the ADF is closer to the eyes, the weight of the product moves closer to its center of gravity and therefore increasing its stability and balance. The design eliminates pressure points and reduces strain on the welder's neck.

## TECHNICAL DATA

Description	Leight weight, comfortable welding mask with ADF (infinitely Shade selection 9-12) and grind mode (Shade Level 3). Compatible with standard hard hats.		Classification (textile)	EN ISO 11611 <b>Class 1</b> EN ISO 11612 <b>Classes A/B/C1/E3/F1</b>
Shade levels	<b>Grind mode / inactive: shade level 3</b> <b>Active: shade levels 9-12</b>		Shape stability	<b>Welding mask: up to 180°C / 356°F</b> <b>Front cover lens: up to 135°C / 275°F</b>
Power supply	<b>2 pcs batteries 3V exchangeable (CR2032)</b>		Eye protection	<b>Ultraviolet / Infrared Protection: maximum protection at any shade level</b>
Operating time batteries	1'000h operating time (Standby 10'000h)		Operating temperature	<b>-10°C to +60°C / 14°F to 140°F</b>
Sensors	Wide detection sensor		Storage temperature	<b>-20°C to +80°C / -4F to 176°F</b>
Viewing area	<b>Improved and wide viewing area thanks to nose cutout.</b>		Weight	<b>welding mask with ADF: 233g / 8.2 oz</b> <b>textile cap: 178 g / 6.3 oz</b>
Switching time	<b>Light to dark:</b> <b>0.16 ms at room temperature</b> <b>0.11 ms at 55°C / 131°F</b> <b>Dark to light: 0.3 s</b>		Application ranges	<b>Any electric arc welding process</b> <b>Electrode Welding (Stick Welding, SMAW) / MIG / MAG (GMAW) / GMAW</b> <b>High melting rate process / Flux Cored Wire Welding / TIG welding (GTAW) / Plasma Arc Welding / Micro Plasma Arc Welding / Plasmacutting / Grinding.</b> <i>Prohibited for laser welding!</i>
Classification (mask)	EN 379	<b>Optical class: 1</b> <b>Scattered light: 1</b> <b>Homogeneity: 2</b> <b>Angular dependence: 2</b>	Standards	CE (EN 379, EN 166, EN 175) ANSI Z87.1
	EN 175/AS/NZS 1337.1	<b>weldcap face shield F</b>	Warranty	<b>2 years (except textile and batteries)</b>
	EN 166/AS/NZS 1337.1	<b>Front cover lens B</b>		
	ANSI Z87.1	<b>Impact resistance Z87+</b>		



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