

ZEKLER®
PROTECT YOUR SENSES



PROTECT YOUR SENSES

**TEN OUT OF TEN WOULD STILL LIKE TO HEAR WELL
AT THE AGE OF 70.**

A claim we can make without the support of a scientific study. In addition, we dare to say that most people would like to have both functioning eyes and good health irrespective of whether they are 20 or 70 years old. Some would also like to feel attractive and comfortable - even at work.

Zekler does not guarantee perfect hearing, your health or a life free of accidents. Nor the looks of a model. However, we want to make it easier for you to be suitably protected at your workplace. You are properly protected if you use the products throughout the working day and then, above all, you must have comfortable protection that fits well. To further motivate you to use protection products, we aim to develop stylish and designed products that you are satisfied with. Obviously you should choose the protection that best suits the working environment or work situation you are in. Consequently, we work to make your choice as easy as possible.

Zekler designs and develops personal protection to protect you while you are at work.

TAKE CARE OF YOUR SENSES.

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HEARING PROTECTION

Hearing is one of your most important senses and we would like to show you the best way to protect your hearing when you are at work. First and foremost 100% usage applies and to wear hearing protection an entire day means they must fit perfectly and make you feel content and at ease.





HEY! LISTEN

In order to achieve the best hearing protection, it is important to know what levels of noise are in the surrounding environment as well as in what frequencies the sound occurs at. This means the noise environment where you work needs to be measured. The results of the measured noise environment are used when choosing your hearing protectors. The recorded attenuation capability of hearing protectors together with the results of the measured noise environment provide a picture of the expected protection given by a pair of hearing protectors.

HEARING PROTECTION'S ATTENUATION CAPACITY

The attenuation capability of the hearing protection is described in the methods set out to the right. The various attenuation values are stated for each hearing protector in the product section or in the User guide supplied with the hearing protectors.

OCTAVE BAND METHOD

used to determine the attenuation of the hearing protection in terms of average value and standard deviation in the eight octave bands required by the standard.

H-M-L

are used to measure hearing protector attenuation in high (H), medium (M) and low frequency dominated (L) noise.

SNR (SINGLE NUMBER RATING)

is a simplified description of hearing protector attenuation. A value is calculated based on the hearing protector's octave band values.

ATTENUATION LEVELS

To simplify the choice we have divided the protectors into three levels.

1
LEVEL ONE

Level 1. Good attenuation that suits a low noise level in industrial environments. Especially good attenuation at medium and high frequencies.

2
LEVEL TWO

Level 2. Higher attenuation in both low and high frequencies, for a more demanding noise environment.

3
LEVEL THREE

Level 3. Extra high attenuation particularly medium and low frequencies.

HOW DO YOU FIND OUT WHAT LEVEL OF PROTECTION YOU NEED?

The choice of hearing protection is made based on a number of different parameters - the protection's comfort, application area and the type of noise you have to protect yourself against. Attenuation must not be too high or too low, it is important to choose protection that does not "over attenuate". When choosing hearing protection, you first need to obtain information about the noise characteristics, the sound pressure level (dB), duration, frequency content (Hz) and any elements of impulse noise in order to choose the right level of protection in the safest manner possible. We can only tolerate a certain amount of noise per day before we risk permanent hearing damage. For example, we are affected as much by 15 minutes at 100 dB(A) as 8 hours at 85 dB(A). Remember that it is not just in the workplace that your hearing may be affected by noise.

OTHER FACTORS TO CONSIDER WHEN CHOOSING HEARING PROTECTION

Remember that even in noise with relatively low levels, around 75-80 dB(A), it may be justified to wear hearing protection. Particularly sensitive people may still risk noise damage, even at lower levels than the upper action values. Use of these lower levels may also be relevant for people who, at the same time, are exposed to ototoxic substances or noise and vibration. Ototoxic sub-

stances are chemical substances which through inhalation or skin exposure can damage or change the inner ear or auditory nerve function or structure and thereby cause acute or chronic hearing loss and/or balance disorder. That the hearing protection offers good comfort is of course important, as you get the right attenuation level and that there is hearing protection appropriate to you in your work. Also remember that hair and sideburns can allow noise to leak in and thus have a negative impact on the attenuation value. When you combine hearing protection with other protective equipment it is important that the hearing protection's attenuation is not impaired due to the combination.

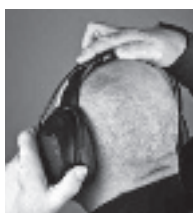
- The hearing protection must be worn under protective clothing and hoods.
- When using respiratory protection, that the straps on the respiratory protection do not prevent the sealing rings on the cups from sealing against the skin.
- The sidepieces on glasses can dramatically impair the attenuation capacity. To avoid this, it is important that you choose glasses of the right size with thin sidepieces.
- When it comes to hearing protection that is fitted to a hard hat, you should always choose combinations that have been specifically tested and approved together.
- It is important when wearing a visor that the visor fits with the other equipment being used and that they do not come in contact with any part of the hearing protection.

TYPE OF PROTECTION



HEADBAND

An adjustable headband with fork attachment for the cups. The combination together with the cup's wide sealing rings give a comfortable protector that can be used for long periods. The soft head pad and sealing rings are easily replaceable.



NECKBAND

Plastic coated stainless steel neckband. Together with the cup's wide sealing rings it provides a uniform band pressure and comfortable use. For use with other protective equipment, e.g. a visor, welding helmet or hard hat.



VISOR SYSTEM

Zekler Visor System can be combined with a headband and hard hat attachment in the Zekler 400 series and with a separate head frame. There is also a separate attachment for hard hat mounting. This is used when you do not use hearing protection with the hard hat. See visor in the Eye protection chapter on pages 24-45.



HARD HAT MOUNTING

For attaching on a hard hat (30 mm slot attachment) The band with fork attachment of the cups together with the wide sealing rings provides uniform headband pressure and comfortable use. The hard hat adapter is prepared for mounting a Zekler visor system.



APPROVED FOR ATTACHMENT ON THESE HARD HATS

IRIS 2, Style 300, Style 600, Balance AC, Balance HD, Peltor G2000, Peltor G3000, Uvex Airwing, Uvex Pheos, Uvex Pheos Alpine, JSP EVO2, EVO3, MK7 and LAS Rockman S14, S16 and S17.



ACCESSORIES

Old, rigid and/or worn sealing rings impair the hearing protector's attenuation capacity and noise "leaks in". Maintain protection performance and comfort by replacing the sealing rings regularly.

If you work in extremely dirty environments or share the protection with others we recommend that you fit the sealing rings with a hygienic disposable cover.

ELECTRONIC FUNCTIONS



FM RADIO

FM RADIO

Allows you to listen to the radio instead of noise without disturbing anyone else. Promotes job satisfaction, while increasing the use of the hearing protectors. Level restrictors in the cups make it impossible to deliver dangerously high sound levels in the speakers.



AUX IN

LEVEL DEPENDENT SYSTEM

The function is exactly that "Level dependent". The microphones pick up the ambient noise so you can hear what's going on around you and facilitate communication with your colleagues. Should the sound reach harmful levels the electronics react immediately and take down the level to max. 82 dB. Extremely good in environments with impulse noise, or varying levels of noise. The volume control also allows you to increase the ambient noise and still feel safe. The function reduces the risk of over attenuation and gives you the opportunity of using the protection at all times when there is a risk of damaging noise levels.



LEVEL DEPENDENT

AUX INPUT

3.5 mm Audio input for connecting an external audio source, such as MP3 player or FM radio.



BLUETOOTH® WIRELESS TECHNOLOGY

Bluetooth® wireless technology for communication with, for example, mobile phones, laptop computers, iPads and to stream music.



Earmuffs ZEKLER 412RDB

Comfortable earmuffs with built-in FM stereo radio, level-dependent monitoring function and Bluetooth® wireless technology for connection to telephone and for streaming music. Music streaming pauses and the FM radio is lowered for incoming calls; for safety reasons the level-dependent monitoring function is retained. Good attenuation for low, high and medium frequencies. Headband with fork-mounting and the wide sealing cushions give a constant head pressure and comfortable use.

- Bluetooth® wireless technology for communication with mobile phone, laptop, iPad.
- Boom microphone with very effective noise suppression for clear communication even in noisy environments.
- "Side Tone" function enabling your voice to be heard clearly and to help you speak in a normal conversational level even in very noisy environments.
- Level-dependent monitoring function is retained for incoming calls for safety reasons.
- "Adaptive Volume Control" function automatically adjusts the volume of incoming calls based on the surrounding noise level.
- FM stereo radio 88 - 108 MHz with volume limiter (82dB[A]).
- "Automatic Frequency Control" (AFC) reduces the noise between radio channels when searching, locks and memorises selected channel even in lower reception areas.
- Automatic switching between Stereo/Mono for a more stable sound depending on reception conditions.
- Level-dependant monitoring function Level Dependent System amplifies weaker sound and allows you to hear your surroundings whilst keeping you protected from high impulse sounds.
- Attenuation: Level 2.
- 3,5 mm AUX input.
- Cable with 2 x 3,5 mm stereo plugs included.
- Adjustable headband.
- Soft, replaceable head cushion.
- Wide, comfortable and easily replaced sealing cushions.
- Up to 10 m range using Bluetooth® unit.
- Supplied with 2 x 1,5V AA batteries.
- Rechargeable batteries (HR6 2100 mAh) and battery charger available as accessories. Charges in around 3 hours from wall socket and around 8 hours in USB socket.
- Operational time up to 23 hours with all functions active.
- Battery status/energy saving for automatic switch-off if no settings have changed within 6 hours.



LEVEL TWO



AUX IN



FM RADIO



LEVEL DEPENDENT

H	M	L	SNR
34	27	20	30

Complies with EN 352-1, 352-4, 352-6, 352-8 and EMC-directive 89/336/EEC.

Attenuation values with electronics off

Frequency Hz	63	125	250	500	1000	2000	4000	8000
Average value [dB]	21	18,4	21,1	27,7	36,9	36,1	42,1	38,8
Standard deviation [dB]	6,3	4,5	4,2	3,5	4	3,6	3,5	5,4
Anticipated attenuation [dB]	14,7	13,9	16,9	24,2	32,9	32,5	38,6	33,4

Code	Description	Type	Colour	Unit	Contents	Pack
380682161	Hearing protection	412RDB		PCS		1
380684068	Rechargeable AA (HR6) batteries	HR6		PAI		1
380684100	Universal battery charger with USB cable			PCS		1
380684076	Complete boom microphone			PCS		1
380684084	Wind shield for boom microphone			PCS		1
380684092	Wind shield for level-dependent monitoring microphone			PAI		1
380684043	Cable 3,5 mm x 2			PCS		1
380684118	Hygiene kit	HK3B		LOT		1
380684035	Comfort ring	CR1		BAG	20	1



Earmuffs ZEKLER 412RDBH

Comfortable earmuffs with built-in FM stereo radio, level-dependant monitoring function and Bluetooth® wireless technology for connection to telephone and for streaming music. Music streaming pauses and the FM radio is lowered for incoming calls; for safety reasons the monitoring function is retained. Good attenuation for low, high and medium frequencies. The hard hat attachment with fork-mounting and the wide sealing cushions give a constant head pressure and comfortable use. The helmet adapter is prepared for mounting the Zekler visor system.

- Bluetooth® wireless technology for communication with mobile phone, laptop, iPad.
- Boom microphone with very effective noise suppression for clear communication even in noisy environments.
- "Side Tone" function enabling your voice to be heard clearly and to help you speak in a normal conversational level even in very noisy environments.
- Level-dependent monitoring function is retained for incoming calls for safety reasons.
- "Adaptive Volume Control" function automatically adjusts the volume of incoming calls based on the surrounding noise level.
- FM stereo radio 88 - 108 MHz with volume limiter [82dB(A)].
- "Automatic Frequency Control" (AFC) reduces the noise between radio channels when searching, locks and memorises selected channel even in lower reception areas.
- Automatic switching between Stereo/Mono for a more stable sound depending on reception conditions.
- Level-dependant monitoring function Level Dependent System amplifies weaker sound and allows you to hear your surroundings whilst keeping you protected from high impulse sounds.
- Attenuation: Level 2.
- 3,5 mm AUX input.
- Cable with 2 x 3,5 mm stereo plugs included.
- For hard hat attachment.
- Helmet adapter prepared for mounting the Zekler visor system.
- Wide, comfortable and easily replaced sealing cushions.
- Up to 10m range using Bluetooth® unit.
- Supplied with 2 x 1,5V AA batteries.
- Rechargeable batteries (HR6 2100 mAh) and battery charger available as accessories. Charges in around 3 hours from wall socket and around 8 hours in USB socket.
- Operational time up to 23 hours with all functions active.
- Battery status/ energy saving for automatic switch-off if no settings have changed within 6 hours.



LEVEL TWO



AUX IN



FM RADIO



LEVEL DEPENDENT

H	L	M	SNR
33	26	19	29

Complies with EN 352-1, 352-3, 352-4, 352-6, 352-8 and the EMC-Directive 89/336/EEC.

Attenuation values with electronics off

Frequency Hz	63	125	250	500	1000	2000	4000	8000
Average value [dB]	17,8	16,3	19,5	26,9	34,3	33,8	41,8	37,4
Standard deviation [dB]	4,2	4	3,2	3,1	4	2,9	3,3	3,8
Anticipated attenuation [dB]	13,6	12,3	16,3	23,8	30,3	30,9	38,5	33,6

Code	Description	Type	Colour	Unit	Contents	Pack
380682179	Hearing protection	412RDBH		PCS		1
380684068	Rechargeable AA (HR6) batteries	HR6		PAI		1
380684100	Universal battery charger with USB-cable			PCS		1
380684076	Complete boom microphone			PCS		1
380684084	Wind shield for boom microphone			PCS		1
380684092	Wind shield level-dependent monitoring microphone			PAI		1
380684043	Cable 3,5 mm x 2			PCS		1
380684118	Hygiene kit	HK3B		LOT		1
380684035	Comfort ring	CR1		BAG	20	1



LEVEL TWO

AUX IN

LEVEL
DEPENDENT

H	M	L	SNR
34	27	20	30

Earmuffs ZEKLER 412DB

Comfortable earmuffs with level-dependent monitoring function and Bluetooth® wireless technology for connection to telephone and for streaming music. Music streaming pauses for incoming calls; for safety reasons the level-dependent monitoring function is retained. Good attenuation for low, high and medium frequencies. Headband with fork-mounting and the wide sealing cushions give a constant head pressure and comfortable use.

- Bluetooth® wireless technology for communication with mobile phone, laptop, iPad.
- Boom microphone with very effective noise suppression for clear communication even in noisy environments.
- "Side Tone" function enabling your voice to be heard clearly and to help you speak in a normal conversational level even in very noisy environments.
- Level-dependent monitoring function is retained for incoming calls for safety reasons.
- "Adaptive Volume Control" function automatically adjusts the volume of incoming calls based on the surrounding noise level.
- Level-dependant monitoring function Level Dependent System amplifies weaker sound and allows you to hear your surroundings whilst keeping you protected from high impulse sounds.
- Attenuation: Level 2.
- 3,5 mm AUX input.
- Cable with 2 x 3,5 mm stereo plugs included.
- Adjustable headband.
- Soft, replaceable head cushion.
- Wide, comfortable and easily replaced sealing cushions.
- Up to 10 m range using Bluetooth® unit.
- Supplied with 2 x 1,5V AA batteries.
- Rechargeable batteries (HR6 2100 mAh) and battery charger available as accessories. Charges in around 3 hours from wall socket and around 8 hours in USB socket.
- Operational time up to 23 hours with all functions active.
- Battery status/ energy saving for automatic switch-off if no settings have changed within 6 hours.

Complies with EN 352-1, 352-4, 352-6, 352-8 and EMC-directive 89/336/EEC.

Attenuation values with electronics off

Frequency Hz	63	125	250	500	1000	2000	4000	8000
Average value [dB]	21	18,4	21,1	27,7	36,9	36,1	42,1	38,8
Standard deviation [dB]	6,3	4,5	4,2	3,5	4	3,6	3,5	5,4
Anticipated attenuation [dB]	14,7	13,9	16,9	24,2	32,9	32,5	38,6	33,4

Code	Description	Type	Colour	Unit	Contents	Pack
380682187	Hearing protection	412DB		PCS		1
380684068	Rechargeable AA (HR6) batteries	HR6		PAI		1
380684100	Universal battery charger with USB-cable			PCS		1
380684076	Complete boom microphone			PCS		1
380684084	Wind shield for boom microphone			PCS		1
380684092	Wind shield for level-dependent monitoring microphone			PAI		1
380684043	Cable 3,5 mm x 2			PCS		1
380684118	Hygiene kit	HK3B		LOT		1
380684035	Comfort ring	CR1		BAG	20	1



H	M	L	SNR
33	26	19	29

Earmuffs ZEKLER 412DBH

Comfortable earmuffs with level-dependant monitoring function and Bluetooth® wireless technology for connection to telephone and for streaming music. Music streaming pauses for incoming calls; for safety reasons the monitoring function is retained. Good attenuation for low, high and medium frequencies. The hard hat attachment with fork-mounting and the wide sealing cushions give a constant head pressure and comfortable use. The helmet adapter is prepared for mounting the Zekler visor system.

- Bluetooth® wireless technology for communication with mobile phone, laptop, iPad.
- Boom microphone with very effective noise suppression for clear communication even in noisy environments.
- "Side Tone" function enabling your voice to be heard clearly and to help you speak in a normal conversational level even in very noisy environments.
- Level-dependent monitoring function is retained for incoming calls for safety reasons.
- "Adaptive Volume Control" function automatically adjusts the volume of incoming calls based on the surrounding noise level.
- Level-dependant monitoring function Level Dependent System amplifies weaker sound and allows you to hear your surroundings whilst keeping you protected from high impulse sounds.
- Attenuation: Level 2.
- 3,5 mm AUX input.
- Cable with 2 x 3,5 mm stereo plugs included.
- For hard hat attachment.
- Helmet adapter prepared for mounting the Zekler visor system.
- Wide, comfortable and easily replaced sealing cushions.
- Up to 10m range using Bluetooth® unit.
- Supplied with 2 x 1,5V AA batteries.
- Rechargeable batteries (HR6 2100 mAh) and battery charger available as accessories. Charges in around 3 hours from wall socket and around 8 hours in USB socket.
- Operational time up to 23 hours with all functions active.
- Battery status/ energy saving for automatic switch-off if no settings have changed within 6 hours.

Complies with EN 352-1, 352-3, 352-4, 352-6, 352-8 and the EMC-Directive 89/336/EEC.

Attenuation values with electronics off

Frequency Hz	63	125	250	500	1000	2000	4000	8000
Average value [dB]	17,8	16,3	19,5	26,9	34,3	33,8	41,8	37,4
Standard deviation [dB]	4,2	4	3,2	3,1	4	2,9	3,3	3,8
Anticipated attenuation [dB]	13,6	12,3	16,3	23,8	30,3	30,9	38,5	33,6

Code	Description	Type	Colour	Unit	Pack
380682195	Hearing protection	412DHB		PCS	1
380684068	Rechargeable AA (HR6) batteries	HR6		PAI	1
380684100	Universal battery charger with USB-cable			PCS	1
380684076	Complete boom microphone			PCS	1
380684084	Wind shield for boom microphone			PCS	1
380684092	Wind shield for level-dependent monitoring microphone			PAI	1
380684043	Cable 3,5 mm x 2			PCS	1
380684118	Hygiene kit	HK3B		LOT	1
380684035	Comfort ring	CR1		BAG	1



Earmuffs ZEKLER 412RD

Comfortable earmuffs with built-in stereo FM radio and level-dependent monitoring function. The microphones on the cups' front take in the ambient sound so that you can hear what's happening around you and facilitate communication with your workmates. If the noise comes up to dangerous levels the electronics react straight away and reduce the level to max 82 dB(A). A great aid in environments with impulse noise or varying noise levels. You choose the mix of functions you want (radio or level-dependent monitoring) which is most practical at any moment. Fitted with a 3.5 mm aux audio input channel for connecting an MP3 player, for example. Excellent noise reduction over low, medium and high frequencies. The headband fitting has a fork-mount and the wide sealing cushions make for an even head pressure and comfort.

- Attenuation level: Level 2.
- Stereo FM Radio 88 - 108 MHz with noise level limiter (82dB(A)).
- Level-dependent monitoring function, Level Dependent System.
- 3.5 mm AUX input.
- Cable with 2x3.5 mm stereo plugs included.
- 2 x 1.5V AA batteries – operation time around 120 hours.
- Adjustable head fitting.
- Soft, replaceable headband cushion.
- Wide, comfortable and easily replaced sealing cushions.

Complies with EN 352-1, 352-4, 352-6, 352-8

Attenuation values (electronics OFF)

Frequency Hz	63	125	250	500	1000	2000	4000	8000
Median value [dB]	21	18,4	21,1	27,7	36,9	36,1	42,1	38,8
Standard deviation [dB]	6,3	4,5	4,2	3,5	4	3,6	3,5	5,4
Anticipated attenuation [dB]	14,7	13,9	16,9	24,2	32,9	32,5	38,6	33,4



LEVEL TWO



AUX IN



FM RADIO



LEVEL DEPENDENT

H	M	L	SNR
34	27	20	30

Code	Description	Type	Colour	Unit	Pack
380682005	Hearing protection	412RD	Black	PCS	1
380684027	Hygiene kit	HK3		LOT	1
380684035	Comfort ring	CR1		BAG	1
380684043	Cable 3,5 mm x 2			PCS	1



Earmuffs ZEKLER 412RDH

The same characteristics as 412RD above, but with hard hat attachment.

See the list of approved hard hats for mounting on page 9 or on zekler.com

Complies with EN 352-3, 352-4, 352-6, 352-8

Attenuation values (electronics OFF)

Frequency Hz	63	125	250	500	1000	2000	4000	8000
Median value [dB]	17,8	16,3	19,5	26,9	34,3	33,8	41,8	37,4
Standard deviation [dB]	4,2	4	3,2	3,1	4	2,9	3,3	3,8
Anticipated attenuation [dB]	13,6	12,3	16,3	23,8		30,9	38,5	33,6



LEVEL TWO



AUX IN



FM RADIO



LEVEL DEPENDENT

H	M	L	SNR
33	26	19	29

Code	Description	Type	Colour	Unit	Pack
380682013	Hearing protection	412RDH	Black	PCS	1
380684027	Hygiene kit	HK3		LOT	1
380684035	Comfort ring	CR1		BAG	1
380684043	Cable 3,5 mm x 2			PCS	1



Earmuffs ZEKLER 412R

Comfortable earmuffs with built-in stereo FM radio. Enables the user to listen to the radio instead of noise, without disturbing anyone else. Increases comfort and at the same time increases hearing protection use. Fitted with 3.5 mm aux audio inputs for connecting an MP3 player, for example.

Good attenuation at mid, high and low frequencies. Headband fitting with fork mount and the wide sealing cushions provide an even head pressure and make for comfortable use.

- Attenuation level: Level 2.
- Stereo FM Radio 88 - 108 mhz with noise level limiter (82dB(A)).
- 3.5 mm AUX input.
- Cables 2x3.5 mm stereo plugs included.
- 2 x 1.5V AA batteries – operational time around 130 hours.
- Adjustable head fitting.
- Soft replacable head cushion.
- Wide, comfortable and easily replaced sealing cushions.

Complies with EN 352-1, 352-6, 352-8



LEVEL TWO



AUX IN



FM RADIO

H	M	L	SNR
34	27	20	30

Attenuation values electronics off

Frequency Hz	63	125	250	500	1000	2000	4000	8000
Median value (dB)	21	18,4	21,1	27,7	36,9	36,1	42,1	38,8
Standard deviation (dB)	6,3	4,5	4,2	3,5	4	3,6	3,5	5,4
Anticipated attenuation (dB)	14,7	13,9	16,9	24,2	32,9	32,5	38,6	33,4

Code	Description	Type	Colour	Unit	Pack
380682021	Hearing protection	412R	Black	PCS	1
380684027	Hygiene kit	HK3		LOT	1
380684035	Comfort ring	CR1		BAG	1
380684043	Cable 3,5 mm x 2			PCS	1



LEVEL TWO



AUX IN



FM RADIO

H	M	L	SNR
33	26	19	29

Earmuffs ZEKLER 412RH

The same characteristics as 412R above, but with hard hat attachment.

See the list of approved hard hats for mounting on page 9 or on zekler.com

Complies with EN 352-3, 352-6, 352-8

Attenuation values electronics off

Frequency Hz	63	125	250	500	1000	2000	4000	8000
Median value (dB)	17,8	16,3	19,5	26,9	34,3	33,8	41,8	37,4
Standard deviation (dB)	4,2	4	3,2	3,1	4	2,9	3,3	3,8
Anticipated attenuation (dB)	13,6	12,3	16,3	23,8	30,3	30,9	38,5	33,6

Code	Description	Type	Colour	Unit	Pack
380682039	Hearing protection	412RH	Black	PC	1
380684027	Hygiene kit	HK3		KIT	1
380684035	Comfort ring	CR1		BAG	1
380684043	Cable 3,5 mm x 2			PCS	1



Earmuffs ZEKLER 412D

Comfortable earmuffs with built-in stereo FM radio and level-dependent monitoring function. The microphones on the cups' front take in the ambient sound so that you can hear what's happening around you and facilitate communication with your workmates. If the noise comes up to dangerous levels the electronics react straight away and reduce the level to max 82 dB(A). A great aid in environments with impulse noise or varying noise levels. Fitted with a 3.5 mm aux audio input channel for connecting an MP3 player, for example. Good noise reduction over low, medium and high frequencies. The headband fitting has a fork-mount and the wide sealing cushions make for an even head pressure and comfort.

- Attenuation level: Level 2.
- Level-dependent monitoring function, Level Dependent System.
- 3.5 mm AUX input.
- Cable with 2x3.5 mm stereo plugs included.
- 2 x 1.5V AA batteries – operation time around 120 hours.
- Adjustable head fitting.
- Soft, replaceable head cushion.
- Wide, comfortable and easily replaced sealing cushions.

Complies with EN 352-1, 352-4, 352-6

Attenuation values electronics off

Frequency Hz	63	125	250	500	1000	2000	4000	8000
Median value [dB]	21	18,4	21,1	27,7	36,9	36,1	42,1	38,8
Standard deviation [dB]	6,3	4,5	4,2	3,5	4	3,6	3,5	5,4
Anticipated attenuation [dB]	14,7	13,9	16,9	24,2	32,9	32,5	38,6	33,4



H	M	L	SNR
34	27	20	30

Code	Description	Type	Colour	Unit	Pack
380682047	Hearing protection	412D	Black	PC	1
380684027	Hygiene kit	HK3		KIT	1
380684035	Comfort ring	CR1		BAG	1
380684043	Cable 3,5 mm x 2			PCS	1



Earmuffs ZEKLER 412DH

The same characteristics as 412D above, but with hard hat attachment.

See the list of approved hard hats for mounting on page 9 or on zekler.com
Complies with EN 352-3, 352-4, 352-6

Attenuation values electronics off

Frequency Hz	63	125	250	500	1000	2000	4000	8000
Median vlaue [dB]	17,8	16,3	19,5	26,9	34,3	33,8	41,8	37,4
Standard deviation [dB]	4,2	4	3,2	3,1	4	2,9	3,3	3,8
Anticipated attenuation [dB]	13,6	12,3	16,3	23,8	30,3	30,9	38,5	33,6



H	M	L	SNR
33	26	19	29

Code	Description	Type	Colour	Unit	Pack
380682054	Hearing protection	412DH	Black	PC	1
380684027	Hygiene kit	HK3		KIT	1
380684035	Comfort ring	CR1		BAG	1
380684043	Cable 3,5 mm x 2			PCS	1



1

LEVEL ONE

H	M	L	SNR
30	23	15	26

Earmuffs ZEKLER 401

Comfortable earmuffs with headband fitting. Particularly good attenuation across medium and high frequencies. Headband fitting with fork-mount and the wide sealing cushions for comfortable use. Especially suited in lower ambient noise level environments.

- Attenuation level: Level 1
- Adjustable headband fitting.
- Soft, replaceable headband cushion.
- Wide, comfortable and easily replaced sealing cushions.

Complies with EN 352-1

Attenuation values

Frequency HZ	63	125	250	500	1000	2000	4000	8000
Median value (dB)	13,8	10,9	15,6	25,4	31,1	30,8	33,8	33,5
Standard deviation (dB)	4,7	2,3	2,2	3,4	3,0	2,3	3,1	2,6
Anticipated attenuation (dB)	9,1	8,6	13,4	22,0	28,1	28,5	30,7	30,9

Code	Description	Type	Colour	Unit	Pack
380682062	Hearing protection	401	Black	PC	1
380684001	Hygiene kit	HK1		KIT	1
380684035	Comfort ring	CR1		BAG	1



1

LEVEL ONE

H	M	L	SNR
27	23	16	25

Earmuffs ZEKLER 401H

The same characteristics as 401 above, but with hard hat attachment.

See the list of approved hard hats for mounting on page 9 or on zekler.com

Complies with EN 352-3

Attenuation values

Frequency Hz	63	125	250	500	1000	2000	4000	8000
Median value (dB)	15,0	15,0	14,7	24,7	33,1	26,8	32,2	34,6
Standard deviation (dB)	4,2	3,1	2,9	2,9	3,2	2,7	2,8	3,7
Anticipated attenuation (dB)	10,8	11,9	11,8	21,8	29,9	24,1	29,4	30,9

Code	Description	Type	Colour	Unit	Pack
380682070	Hearing protection	401H	Black	PC	1
380684001	Hygiene kit	HK1		KIT	1
380684035	Comfort ring	CR1		BAG	1



1

LEVEL ONE

H	M	L	SNR
29	23	16	26

Earmuffs ZEKLER 401N

The same characteristics as 401 above, but with neckband.

Complies with EN 352-1

Attenuation values

Frequency Hz	63	125	250	500	1000	2000	4000	8000
Median value (dB)	12,6	11,7	15,9	22,5	30,5	31,2	34,5	33,8
Standard deviation (dB)		2,7	1,9	2,7	2,8	3,5	3,2	4,7
Anticipated attenuation (dB)	8,5	9,0	14,0	19,8	27,7	27,7	31,3	29,1

Code	Description	Type	Colour	Unit	Pack
380682088	Hearing protection	401N	Black	PC	1
380684001	Hygiene kit	HK1		KIT	1
380684035	Comfort ring	CR1		BAG	1



H	M	L	SNR
35	28	18	30

Earmuffs ZEKLER 402

Comfortable earmuffs with headband fitting for more demanding noisy environments. Good attenuation across medium, high and low frequencies. Headband fitting with fork-mount and the wide side sealing cushions make for an even head pressure and comfort.

- Attenuation level: Level 2
- Adjustable headband fitting.
- Soft, replaceable headband cushion.
- Wide, comfortable and easily replaced sealing cushions.

Complies with EN 352-1

Attenuation values

Frequency Hz	63	125	250	500	1000	2000	4000	8000
Median value [dB]	18,2	13,6	21,8	30,7	39,4	35,8	37,6	40,0
Standard deviation [dB]	5,4	3,4	2,7	3,1	3,0	2,9	2,8	4,8
Anticipated attenuation [dB]	12,8	10,2	19,1	27,6	36,4	32,9	34,8	35,2

Code	Description	Type	Colour	Unit	Pack
380682096	Hearing protection	402	Black	PC	1
380684019	Hygiene kit	HK2		KIT	1
380684035	Comfort ring	CR1		BAG	1



H	M	L	SNR
31	27	19	29

Earmuffs ZEKLER 402H

The same characteristics as 402 above, but with hard hat attachment.

See the list of approved hard hats for mounting on page 9 or on zekler.com
Complies with EN 352-3

Attenuation values

Frequency Hz	63	125	250	500	1000	2000	4000	8000
Median value [dB]	15,0	15,0	21,0	28,1	35,3	34,0	34,0	37,3
Standard deviation [dB]	4,1	2,6	3,1	3,5	4,0	3,8	4,5	4,4
Anticipated attenuation [dB]	10,9	12,4	17,9	24,6	31,3	30,2	29,5	32,9

Code	Description	Type	Colour	Unit	Pack
380682104	Hearing protection	402H	Black	PC	1
380684019	Hygiene kit	HK2		KIT	1
380684035	Comfort ring	CR1		BAG	1



H	M	L	SNR
33	27	19	30

Earmuffs ZEKLER 402N

The same characteristics as 402 above, but with neckband.

Complies with EN 352-1

Attenuation values

Frequency Hz	63	125	250	500	1000	2000	4000	8000
Median value [dB]	17,9	16,4	21,9	29,0	40,2	35,9	36,2	
Standard deviation [dB]	5,4	4,1	3,8	4,0	4,9	3,3	5,8	6,1
Anticipated attenuation [dB]	12,5	12,3	18,1	25,0	35,3	32,6	30,4	32,9

Code	Description	Type	Colour	Unit	Pack
380682112	Hearing protection	402N	Black	PC	1
380684019	Hygiene kit	HK2		KIT	1
380684035	Comfort ring	CR1		BAG	1



LEVEL THREE

H	M	L	SNR
34	31	22	33

Earmuffs ZEKLER 403

Comfortable earmuffs with headband fitting with exceptional attenuation across medium and low frequencies. Headband fitting with fork-mount, and the wide sealing cushions make for an even head pressure and comfort.

- Attenuation level: Level 3
- Adjustable headband fitting.
- Soft, replaceable head cushion.
- Wide, comfortable and easily replaced sealing cushions.

Complies with EN 352-1

Attenuation values

Frequency Hz	63	125	250	500	1000	2000	4000	8000
Median value [dB]	20,5	17,5	24,8	32,7	43,8	36,4	35,9	38,1
Standard deviation [dB]	5,4	3,0	2,4	2,6	3,7	3,5	3,1	4,1
Anticipated attenuation [dB]	15,1	14,5	22,4	30,1	40,1	32,9	32,8	34,0

Code	Description	Type	Colour	Unit	Pack
380682120	Hearing protection	403	Black	PC	1
380684019	Hygiene kit	HK2		KIT	1
380684035	Comfort ring	CR1		BAG	1



LEVEL THREE

H	M	L	SNR
32	29	21	31

Earmuffs ZEKLER 403H

The same characteristics as 403 above, but with hard hat attachment.

See the list of approved hard hats for mounting on page 9 or on zekler.com

Complies with EN 352-3

Attenuation values

Frequency Hz	63	125	250	500	1000	2000	4000	8000
Median value [dB]	16,4	17,7	23,5	31,8	41,6	36,4	34,2	35,2
Standard deviation [dB]	4,3	3,3	4,2	3,5	3,4	3,8	3,9	5,7
Anticipated attenuation [dB]	12,1	14,4	19,3	28,3	38,2	32,6	30,3	29,5

Code	Description	Type	Colour	Unit	Pack
380682138	Hearing protection	403H	Black	PC	1
380684019	Hygiene kit	HK2		KIT	1
380684035	Comfort ring	CR1		BAG	1

ACCESSORIES FOR EARMUFFS

Hygiene Kit ZEKLER HK1



Zekler HK1 contains:
2 x spacer rings, 2 x absorbers and 1 helmet cushion.

Fits Zekler earmuffs 401.

Code	Description	Type	Unit	Pack
380684001	Hygiene kit	HK1	KIT	1

Hygiene Kit ZEKLER HK2



Zekler HK2 contains:
2 x spacer rings, 2 x absorbers and 1 helmet cushion.

Fits Zekler earmuffs 402 and 403.

Code	Description	Type	Unit	Pack
380684019	Hygiene kit	HK2	KIT	1

Hygiene Kit ZEKLER HK3



Zekler HK3 contains:
2 x spacer rings, 2 x absorbers and 1 helmet cushion.

Fits Zekler earmuffs 412.

Code	Description	Type	Unit	Pack
380684027	Hygiene kit	HK3	KIT	1

ZEKLER HK3B



Zekler HK3 contains:
2 x spacer rings, 2 x absorbers and 1 helmet cushion.

Fits Zekler earmuffs 412RDB, 412RDBH, 412DB, 412DBH.

Code	Description	Type	Unit	Pack
380684118	Hygiene kit	HK3B	STS	1

Comfort Ring ZEKLER CR1



Zekler CR1 contains:
20 x sweat absorbers per bag

Fits Zekler earmuffs 401,402,403 and 412.

Code	Description	Type	Unit	Contents	Pack
380684035	Comfort ring	CR1	BAG	20	1

Rechargeable batteries for 412 Bluetooth®



1 pair of rechargeable batteries HR6 2100 mAh.

Fits Zekler earmuffs 412RDB, 412RDBH, 412DB, 412DBH.

Art. no.	Description	Type	Unit	Pack
380684068	Rechargeable AA batteries	HR6	PAR	1

Battery charger for 412 Bluetooth®



For charging via USB port as well as via a wall socket.

Fits Zekler earmuffs 412RDB, 412RDBH, 412DB, 412DBH.

Art. no.	Description	Unit	Pack
380684100	Universal battery charger	ST	1

Complete boom microphone including windshield



Fits Zekler earmuffs 412RDB, 412RDBH, 412DB, 412DBH.

Art. no.	Description
380684076	Complete boom microphone

Windshield for boom microphone



Fits Zekler earmuffs 412RDB, 412RDBH, 412DB, 412DBH.

Art. no.	Description
380684084	Windshield for boom microphone

Windshield for level dependent microphone



Fits Zekler earmuffs 412RD, 412RDH, 412D, 412DH, 412RDB, 412RDBH, 412DB, 412DBH.

Art. no.	Description
380684092	Windbreak for level dependent microphones

Connection cable with 2 x 3.5 mm stereo plugs



Fits Zekler earmuffs 412R, 412RH, 412RD, 412RDH, 412D, 412DH, 412RDB, 412RDBH, 412DB, 412DBH.

Art. no.	Description
380684043	Connection cable 3.5 mm x 2



Zekler disposable ear-plugs are available in sizes S and L, and are made from polyurethane foam. The plugs are conical in shape, completely silicone-free and offer good attenuation at both high and low frequencies. Size L gives a very linear attenuation, which prevents distortion of sound characteristics. The composition of the material gives a well-balanced expansion, which contributes to both high safety and comfort. A robust, wall-mounted dispenser is available as an accessory.



Earplugs ZEKLER 802 S, 802 L

Disposable earplug in sizes Small (S) and Large (L) to fit most ear canals. The material's composition allows the earplug a well-balanced expansion. 802 L has a very linear attenuation, which prevents distortion of sound characteristics. A robust, wall-mounted dispenser that holds 500 pairs of plugs available as an accessory.

- Conically shaped earplugs made from PU material, fully silicone-free.
- Dirt-repellent surface.
- Available in sizes Small (S) and Large (L) for best fit.
- Form and material composition enable the plug to achieve a well-balanced expansion.
- Stable and comfortable fit with a minimal pressure in the ear canal.
- 802 L has a very linear attenuation which prevents distortion of sound characteristics.

Complies with EN 352-2 and AS/NZS 1270

Dämpningsvärden Zekler 802 S

Frequency Hz	63	125	250	500	1000	2000	4000	8000
Mean value [dB]	28,9	31,0	33,6	33,8	33,6	36,2	40,6	44,3
Standard deviation [dB]	3,4	5,2	5,4	5,4	4,0	4,2	3,7	2,9
Anticipated attenuation [dB]	25,5	25,8	28,2	28,4	29,6	32,0	36,9	41,4

Dämpningsvärden Zekler 802 L

Frequency Hz	63	125	250	500	1000	2000	4000	8000
Mean value [dB]	35,3	38,4	39,3	40,8	38,9	37,8	45,9	45,1
Standard deviation [dB]	4,2	6,3	5,3	5,5	5,5	4,3	3,9	4,6
Anticipated attenuation [dB]	31,1	32,1	34,0	35,3	33,4	33,5	42,0	40,5



H	M	L	SNR
33	30	29	33



H	M	L	SNR
36	34	34	37



Code	Description	Colour	Contents	Pack
380688002	802 S (1 pair/PP-bag, 200 pairs/box)	Red	200	1
380688010	802 L (1 pair/PP-bag, 200 pairs/box)	Red	200	1
380688028	802 S refill (300 pairs loosepacked /box)	Red	300	1
380688036	802 L refill (300 pairs loosepacked /box)	Red	300	1
380687988	802 S 10-PAC (10 pairs loosepacked in re-sealable bag)	Red	10	1
380687996	802 L 10-PAC (10 pairs loosepacked in re-sealable bag)	Red	10	1
380687970	Dispenser for box 802 S refill or 802 L refill (space for 500 pairs)	Black/Red		1

Earplugs ZEKLER 922 L

Reusable earplug in a universal size. The plug has a stiff shaft but soft, pliable fins which facilitate insertion. The material softens in contact with body temperature, enabling the plug to quickly adapt to fit the ear canal. Supplied with a glued plastic band and a practical and hygienic plastic storage case.

- Moulded reusable earplug in TPE-material, fully silicone-free.
- Pliable fins for easy-cleaning.
- Universal size to fit most ear canals.
- Stiff shaft and soft, pliable fins for easy fitting.
- Soft, pliable material for comfortable use.
- Glued retaining plastic band.
- Plastic case for hygienic storage.

Complies with EN 352-2 and AS/NZS 1270

Attenuation table Zekler 922 L

Frequency Hz	63	125	250	500	1000	2000	4000	8000
Mean value [dB]	26,6	26,9	24,3	26,1	28,8	32,8	32,6	38,1
Standard deviation [dB]	6,1	6,1	4,1	5,1	5,1	5,0	6,5	5,3
Anticipated attenuation [dB]	20,5	20,8	20,2	21,0	23,7	27,8	26,1	32,8



H	M	L	SNR
27	24	22	27

Code	Description	Colour	Unit	Contents	Pack
380688051	922 L in plastic storage case (1 pair/case)	Red w dark grey plastic retainer	PAC	1	50*



EYE PROTECTION

The only way to be absolutely safe from eye injuries at the workplace is to wear the right eye protection, 100% of your working time. To do so requires that you are happy with your eye protection. They should have the right fit, the right protection for the task, and not least - the right style!

One gives the other. If you're satisfied with your eye protection you're safe at work!



HEY! LOOK

Eye protection is worn in order to provide protection against risks directed towards the eyes and face. These risks can be partly mechanical, e.g. flying particles and partly chemical, e.g. chemical splashes. Even protection against radiation, for example UV radiation or bright lights, can be hazards that you may be subjected to over the course of a working day.

In order to be able to safely choose the right protection, it is important to determine what risks exist in the surrounding environment and that you are careful to ensure that the protection is tailored to the person using it.

CHOOSING THE BEST FIT



This can give you guidance in choosing your eyewear, but it is still important to try the eyewear to ensure they sit properly on you.

In order for protective eyewear to protect in a safe manner it is important that they are fitted to the person wearing them. If the eyewear does not fit as designed, there is a risk of gaps occurring where dangerous particles or radiation can penetrate and damage the eye. We all have different shaped faces and there is no single eyewear product that fits all.

There are many things that come into play, such as the width of the face and face shape which determine the optimal fit of the eyewear. We have chosen to divide our eyewear into three categories - Small, Medium and Large to make the choice easier.

TYPE OF PROTECTION



GLASSES

Must have side protection. Some glasses can be used over prescription glasses. The lenses are made of impact resistant polycarbonate.



GOGGLES

Suitable where there is a risk of splashing from chemicals or in environments with a lot of particles.



VISOR

Protect both the eyes and face. Replaceable visors are available in different materials to suit different environments.



WELDING

Protects the eyes and face from radiation when welding. There are also goggles that only protect your eyes, for example, when brazing/cutting

AUTOMATIC DARKENING WELDING GLASS (AUTO/VARIABLE)

Protects the eyes and face. Darkens when the arc is struck. This allows you to work with both hands during the entire welding process, which increases quality and eliminates the risk of "welder's neck". The glass and shield protect the welder from harmful UV and IR radiation. Recommended use of the different filter shades according to the table on www.zekler.com.

WELDING SHIELDS WITH COLOURED LENSES (FIXED)

Protect the eyes and face from radiation when welding. Also goggles that only protect your eyes, for example, when brazing/cutting. Recommended use of the different filter shades according to the table on www.zekler.com.

FUNCTIONS



HC SCRATCH RESISTANT

A coating is applied to the lens to provide a strong scratch resistance, which prolongs the life of your eyewear.

HC/AF SCRATCH/FOG RESISTANCE

A combined anti-fog and anti-scratch coating is applied to the lens. Prevents misting of the lens while providing good scratch resistance.

ADJUSTABLE LENS ANGLE

Allows you to adjust the lens angle against the face for an optimum fit.

ADJUSTABLE SIDEPiece LENGTH

Allows you to change the sidepiece length for maximum comfort and fit.

OVER GLASSES

Designed to fit over existing glasses. Protects your eyes and your regular glasses while maintaining visual acuity.

SOFT BRIDGE

Soft bridge for optimum user comfort.

LENS TYPES FOR PROTECTIVE EYEWEAR



CLEAR PC

Impact-resistant
For mechanical hazards.
Useful in low light conditions
UV protection or UV400
Optical class 1
Lens Markings 2-1.2 or 2C-1.2 SK 1F
Complies with EN166 and EN170



YELLOW PC

Impact-resistant
Contrast enhancement
Suitable for inspection work
UV protection or UV400
Optical class 1
Lens markings 2-1.2 SK 1F
Complies with EN166 and EN170



I/O PC

Impact-resistant
Sunscreen lens (Light gold mirror)
Suitable for varied work, indoors/outdoors.
UV 400
Optical class 1
Lens markings 5-1.7 SK 1F
Complies with EN166 and EN172



BROWN PC

Impact-resistant
Sunscreen lens
Suitable for outdoor work
UV 400
Optical class 1
Lens markings 5-2.5 SK 1F
Complies with EN166 and EN172



GREY PC SILVER MIRROR PC BLUE MIRROR PC



Impact-resistant
Sunscreen lens
Suitable for outdoor work
UV 400
Optical class 1
Lens Markings 5-2.5 or 5-3.1 SK 1F
Complies with EN166 and EN172



BIFOCAL (READING GLASSES) PC

Impact-resistant
Protective eyewear/Reading glasses
Positive bifocal grinding in strengths +1.0/+1.5/+2.0/+2.5
UV protection or UV400
Optical class 1
Lens markings 2-1.2 SK 1F
Suitable for inspection of precision work, drawings, machining, instructions, etc. With Zekler's ground protective eyewear you will not have problems with double glasses while working.



WELDING FILTERS PC

Impact-resistant
Shade 3
suitable for brazing and gas cutting
Shade 5
Suitable for gas welding, brazing
UV protection
Optical class 1
Lens marking 3 or 5 SK 1F
Complies with EN166 and EN169



ORANGE PC

Impact-resistant
Contrast enhancement
Experienced as restful to the eye
UV protection
Suitable for inspection work
Optical class 1
Lens markings 2-1.7 SK 1F
Complies with EN166 and EN170

UV PROTECTION

>99.9% UV radiation up to min. 385 nm

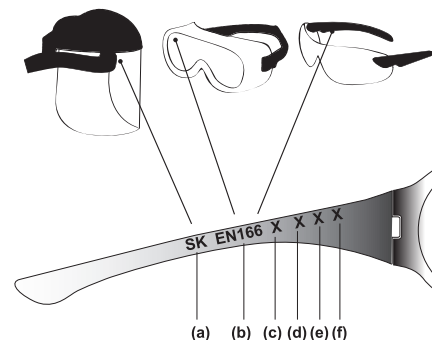
UV 400

100% UV radiation up to min. 400 nm

TYPE OF PROTECTION

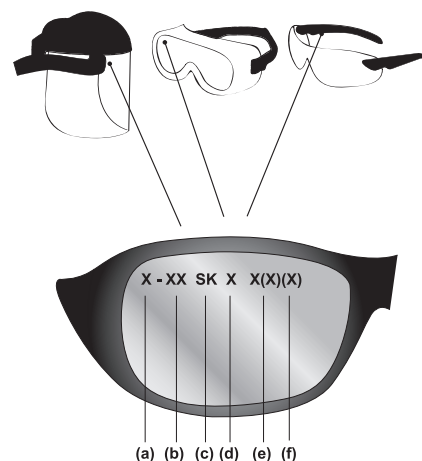
MARKING OF FRAMES

(a)	Manufacturer
(b)	EN standard number
(c)	Suitable areas of application No marking = basic use (glasses) 3 = Liquids (goggles, visor) 4 = Dust particles > 5 µm (goggles) 5 = Gas and small dust particles < 5µm (goggles) 8 = Short circuit electric arcs (visor) 9 = Molten metal and hot material. (goggles, visor)
(d)	Mechanical resistance S = Enhanced strength F = High speed, low-energy impact (6 mm steel ball at 45 m/s) B = High speed, medium-energy impact (6 mm steel ball at 120 m/s) A = High speed, high-energy impact (6 mm steel ball at 190 m/s) Marking "T" after the symbol for mechanical resistance indicates protection at extreme temperatures (FT, BT, AT)
(e)	H = suitable for small head shape
(f)	Highest shade number compatibility with the frame



MARKING OF LENSES

(a)	Filter type 2 or 2C = UV 4 = IR 5 or 6 = Sun filter
(b)	Shade number (Without filter type number = weld filter)
(c)	Manufacturer
(d)	Optical class 1 = Permanent use 2 = Temporary use 3 = Used in exceptional cases
(e)	Mechanical resistance (Marking of frames)
(f)	Other requirements 8 = Short circuit electric arcs (visor) 9 = Molten metal and hot materials (goggles and visor) K = Resistance to surface damage by fine particles N = Resistance to misting. R = Enhanced reflection factor







Safety spectacles ZEKLER 71 S/M/L

Lightweight safety spectacles in clean design with thin sidepieces.

- Sizes S, M and L for optimal fit.
- Polycarbonate lens.
- Soft, adjustable nose bridge.
- Thin sidepieces and tight fit for increased comfort and protection in combination with hearing protection.
- Clear, yellow or grey lens.
- UV400.
- HC/AF = scratch resistant and anti-fog treated lens.

Complies with EN 166, class 1FTHN and 1FTN.

Clear and yellow lens also with EN 170. Grey lens also with EN 172.

Code	Description	Lens	Fit	Unit	Pack
380605295	Spectacles	Clear HC/AF	S	PCS	6*
380605303	Spectacles	Clear HC/AF	M	PCS	6*
380605311	Spectacles	Clear HC/AF	L	PCS	6*
380605329	Spectacles	Yellow HC/AF	S	PCS	6*
380605337	Spectacles	Yellow HC/AF	M	PCS	6*
380605345	Spectacles	Yellow HC/AF	L	PCS	6*
380605352	Spectacles	Grey HC/AF	S	PCS	6*
380605360	Spectacles	Grey HC/AF	M	PCS	6*
380605378	Spectacles	Grey HC/AF	L	PCS	6*



Safety spectacles ZEKLER 72 S/M/L

Lightweight safety spectacles in a clean, streamlined design with thin sidepieces.

- Available in sizes S, M and L for optimal fit.
- Polycarbonate lens.
- Soft nose bridge.
- Thin sidepieces and tight fit for increased comfort and protection in combination with hearing protection.
- Clear, yellow or grey lens.
- UV400.
- HC/AF = scratch resistant and anti-fog treated lens.

Complies with EN 166, class 1FTHN and 1FTN.

Clear and yellow lens also with EN 170. Grey lens also with EN 172.

Code	Description	Lens	Fit	Unit	Pack
380605386	Spectacles	Clear HC/AF	S	PCS	6*
380605394	Spectacles	Clear HC/AF	M	PCS	6*
380605402	Spectacles	Clear HC/AF	L	PCS	6*
380605410	Spectacles	Yellow HC/AF	S	PCS	6*
380605428	Spectacles	Yellow HC/AF	M	PCS	6*
380605436	Spectacles	Yellow HC/AF	L	PCS	6*
380605444	Spectacles	Grey HC/AF	S	PCS	6*
380605451	Spectacles	Grey HC/AF	M	PCS	6*
380605469	Spectacles	Grey HC/AF	L	PCS	6*



Safety spectacles ZEKLER 73 S/M/L

Lightweight, adjustable safety spectacles in clean design with thin sidepieces.

- Available in sizes S, M and L for optimal fit.
- Polycarbonate lens.
- Adjustable sidepieces.
- Lens angle is adjustable and is set with a simple button-click.
- Soft and adjustable nose bridge.
- Thin sidepieces and tight fit for increased comfort and protection in combination with hearing protection.
- Clear, yellow or grey lens.
- UV400.
- HC/AF = scratch resistant and anti-fog treated lens.

Complies with EN 166, class 1FTHN and 1FTN.

Clear and yellow lens also with EN 170. Grey lens also with EN 172.



Code	Description	Lens	Fit	Unit	Pack
380605477	Spectacles	Clear HC/AF	S	PCS	6*
380605485	Spectacles	Clear HC/AF	M	PCS	6*
380605493	Spectacles	Clear HC/AF	L	PCS	6*
380605501	Spectacles	Yellow HC/AF	S	PCS	6*
380605519	Spectacles	Yellow HC/AF	M	PCS	6*
380605527	Spectacles	Yellow HC/AF	L	PCS	6*
380605535	Spectacles	Grey HC/AF	S	PCS	6*
380605543	Spectacles	Grey HC/AF	M	PCS	6*
380605550	Spectacles	Grey HC/AF	L	PCS	6*



Safety Spectacles ZEKLER 55

Safety spectacles with many functions and lens options.

- Polycarbonate lens.
- Adjustable sidepieces in a mixture of hard and soft plastic.
- Adjustable lens angle.
- Soft nose bridge.
- Clear, yellow grey are I/O (Indoor/Outdoor) lenses.
- Clear and yellow = UV protected.
- Grey and I/O = UV400.
- HC = scratch resistant lens.
- HC/AF = scratch resistant and anti-fog treated lens.

Complies with EN 166, class 1F (HC, I/O-lins) or 1FN (HC/AF). Yellow and clear lens also with EN 170. Grey and I/O lenses also with EN 172.



Code	Description	Lens	Fit	Unit	Pack
380600551	Spectacles	Clear HC	L	PCS	6*
380600569	Spectacles	Yellow HC	L	PCS	6*
380600577	Spectacles	Grey HC	L	PCS	6*
380605071	Spectacles	Clear HC/AF	L	PCS	6*
380605022	Spectacles	Yellow HC/AF	L	PCS	6*
380605030	Spectacles	Grey HC/AF	L	PCS	6*
380605063	Spectacles	I/O HC/AF	L	PCS	6*



Welding Spectacles ZEKLER 55

Welding spectacles with many functions and welding filter refractive index 3 and 5.

- Polycarbonate lens.
- Adjustable sidepieces in a mixture of soft and hard plastics.
- Adjustable lens angle.
- Soft nose bridge.
- Welding filter refractive index 3 or 5.
- Protection against UV and IR radiation.
- HC = Scratch resistant lens.

Complies with EN 166 class 1F and EN 169.

Code	Description	Lens	Fit	Unit	Pack
380605089	Welding Spectacles	Refractive index 3	L	PCS	6*
380605097	Welding Spectacles	Refractive index 5	L	PCS	6*

Protective reading spectacles ZEKLER 55 Bifocal

Protective/reading spectacles in 4 different bifocal strengths.

- Clear lens in polycarbonate.
- Adjustable sidepieces made from a mix of hard and soft plastics.
- Adjustable lens angle.
- Soft nose bridge.
- Positive bifocal lens; strengths +1.0/+1.5/+2.0/+2.5.
- Clear =UV protection.
- HC = Scratch resistant lens.

Complies with EN 166, class 1F and EN 170

Code	Description	Lens	Lens strength	Fit	Unit	Pack
380605105	Spectacles	Clear HC	+1,0	M	PCS	6*
380605154	Spectacles	Clear HC	+1,5	M	PCS	6*
380605204	Spectacles	Clear HC	+2,0	M	PCS	6*
380605253	Spectacles	Clear HC	+2,5	M	PCS	6*



Safety Spectacles ZEKLER 255

Safety spectacles with many functions and lens alternatives. Specially adapted to narrower head forms.

- Polycarbonate lens.
- Adjustable sidepieces made from a mixture of soft and hard plastics.
- Adjustable lens angle.
- Soft nose bridge.
- Clear, yellow or grey lens.
- Clear and yellow = UV protection.
- HC = Scratch resistant lens.

Complies with EN 166, class 1FH. Clear and yellow lens also with EN 170.
Grey lens also with EN 172.



Code	Description	Lens	Fit	Unit	Pack
380650408	Spectacles	Clear HC	S	PCS	6*
380650416	Spectacles	Yellow HC	S	PCS	6*
380650424	Spectacles	Grey HC	S	PCS	6*



Safety Spectacles ZEKLER 32

Lightweight and adjustable safety spectacles providing an optimal fit.

- Polycarbonate lens.
- Adjustable sidepieces.
- Adjustable lens angle.
- Clear, yellow or grey lens.
- Clear and yellow = UV protection.
- HC/AF = Scratch resistant and anti-fog treated lens.

Complies with EN 166 class 1F. Clear and yellow lenses also with EN 170. Grey lens also with EN 172.

Code	Description	Lens	Fit	Unit	Pack
380604561	Safety spectacles	Clear HC/AF	M	PCS	12*
380604579	Safety spectacles	Yellow HC/AF	M	PCS	12*
380604587	Safety spectacles	Grey HC/AF	M	PCS	12*



Safety Spectacles ZEKLER 45

Functional safety spectacles with several lens alternatives.

- Polycarbonate lens.
- Adjustable sidepieces made of a mixture of hard and soft plastic.
- Soft nose bridge.
- Clear, yellow, orange or grey lens.
- Clear, yellow, orange = UV protection.
- Grey = UV400.
- HC = Scratch resistant lens.
- HC/AF = scratch resistant and anti-fog treated lens.

Complies with EN 166, Class 1F (HC) or 1FN (HC/AF).

Clear, yellow and orange lens also with EN 170. Grey lens also with EN 172.

Code	Application	Lens	Fit	Unit	Pack
380600452	Spectacles	Clear HC	M	PCS	6*
380600460	Spectacles	Yellow HC	M	PCS	6*
380600478	Spectacles	Grey HC/AF	M	PCS	6*
380600486	Spectacles	Orange HC/AF	M	PCS	6*
380600403	Microfiber bag			PCS	1



Safety Spectacles ZEKLER 22

Safety spectacles in a traditional design.

- Polycarbonate lens.
- Adjustable sidepieces.
- Clear, yellow or grey lens.
- Clear and yellow = UV protection.
- HC/AF = scratch resistant and anti-fog treated lens.

Complies with EN 166, Class 1F. Clear and yellow lens also with EN 170. Grey lens also with EN 172.

Code	Description	Lens	Fit	Unit	Pack
380600155	Safety spectacles	Clear HC/AF	L	PCS	6*
380600163	Safety spectacles	Yellow HC/AF	L	PCS	6*
380600171	Safety spectacles	Grey HC/AF	L	PCS	6*



Safety Spectacles ZEKLER 34

Adjustable safety spectacles with extra upper protection.

- Polycarbonate lens.
- Adjustable sidepieces.
- Adjustable lens angle.
- Clear, yellow or grey lens.
- Clear and yellow = UV protection.
- Grey = UV400.
- HC/AF = scratch resistant and anti-fog treated lens.

Complies with EN 166, class 1F. Clear and yellow lens also with EN 170.
Grey lens also with EN 172.

Code	Description	Lens	Fit	Unit	Pack
380604454	Spectacles	Clear HC/AF	L	PCS	12*
380604462	Spectacles	Yellow HC/AF	L	PCS	12*
380604470	Spectacles	Grey HC/AF	L	PCS	12*



Safety Spectacles ZEKLER 75

Functional safety spectacles for those not requiring adjustment features.

- Polycarbonate lens.
- Soft nose bridge.
- Clear, yellow or grey lens.
- Clear and yellow = UV protection.
- Grey = UV400.
- HC = scratch-resistant lens.

Complies with EN 166, class 1F. Yellow and clear lens also with EN 170.
Grey lens also with EN 172.

Code	Application	Lens	Unit	Pack
380600705	Spectacles	Clear HC	PCS	6*
380600718	Spectacles	Yellow HC	PCS	6*
380600726	Spectacles	Grey HC	PCS	6*



Safety Spectacles ZEKLER 70

Lightweight safety spectacles with metal frame.

- Polycarbonate lens
- Metal frame with flexible, formable, rubber-coated arms for best comfort.
- Clear, grey or blue mirror lens.
- Clear = UV protection.
- Grey and blue mirror = UV400.
- HC/AF = scratch resistant and anti-fog treated lens.

Complies with EN 166, class 1FN. Clear lens also with EN 170.
Grey and blue mirror lens also with EN 172.

Code	Description	Lens	Fit	Unit	Pack
380605261	Spectacles	Clear HC/AF	L	PCS	6*
380605279	Spectacles	Grey HC/AF	L	PCS	6*
380605287	Spectacles	Blue HC/AF	L	PCS	6*



Safety Spectacles ZEKLER 30

Lightweight safety spectacles with an optimal fit.

- Polycarbonate lens
- Frameless model
- Clear, yellow or grey lens.
- Clear and yellow = UV protection.
- Grey = UV400.
- HC = scratch resistant lens.
- HC/AF = scratch resistant and anti-fog treated lens.

Complies with EN 166, class 1FTN. Yellow lens also with EN 170.
Grey lens also with EN 172.

Code	Application	Lens	Fit	Unit	Pack
380600304	Spectacles	Clear HC/AF	M	PCS	12*
380600312	Spectacles	Yellow HC/AF	M	PCS	12*
380600320	Spectacles	Grey HC/AF	M	PCS	12*
380600502	Spectacles	Clear HC	M	PCS	12*
380600510	Spectacles	Yellow HC	M	PCS	12*



Safety Spectacles ZEKLER 235

Lightweight safety spectacles with optimal fit, specially adapted to narrower head forms.

- Polycarbonate lens.
- Frameless model.
- Clear, yellow or grey lens.
- Clear and yellow = UV protection.
- Grey = UV400.
- HC/AF = scratch resistant and anti-fog treated lens.

Complies with EN 166, class 1FHN. Clear and yellow lens also with EN 170.
Grey lens also with EN 172.

Code	Description	Lens	Fit	Unit	Pack
380650200	Spectacles	Clear HC/AF	S	PCS	12*



Safety Spectacles ZEKLER 31

Lightweight and comfortable safety spectacles with optimal fit.

- Polycarbonate lens.
- Frameless model.
- Soft nose bridge.
- Soft, rubber coated sidepiece ends for extra comfort.
- Clear, yellow, silver mirror or I/O (Indoor/Outdoor) lens.
- Clear and yellow = UV protection.
- Silver mirror and I/O = UV400.
- HC/AF = scratch resistant and anti-fog treated lens.

Complies with EN 166, Class 1F (I/O lens) or 1FN. Clear and yellow lens also with EN 170. Silver mirror and I/O lens also with EN 172.

Code	Description	Lens	Fit	Unit	Pack
380604504	Spectacles	Clear HC/AF	M	PCS	12*
380604512	Spectacles	Yellow HC/AF	M	PCS	12*
380604520	Spectacles	Silver Mirror HC/AF	M	PCS	12*
380604496	Spectacles	I/O HC/AF	M	PCS	12*



Safety Spectacles ZEKLER 231

Lightweight and comfortable safety spectacles with optimal fit, specially adapted to narrower head forms.

- Polycarbonate lens.
- Frameless model.
- Soft nose bridge.
- Soft, rubber coated sidepiece ends for extra comfort.
- Clear, yellow, grey or I/O (Indoor/Outdoor) lens.
- Clear and yellow = UV protection
- Grey and I/O = UV400.
- HC/AF = scratch resistant and anti-fog treated lens.

Complies with EN 166, class 1FH (I/O lens) or 1FHN. Clear and yellow also with EN 170. Grey and I/O lens also with EN 172.

Code	Description	Lens	Fit	Unit	Pack
380604538	Safety spectacles	Clear HC/AF	S	PCS	12*
380604546	Safety spectacles	Yellow HC/AF	S	PCS	12*
380604553	Safety spectacles	Grey HC/AF	S	PCS	12*
380604611	Safety spectacles	I/O HC/AF	S	PCS	12*



Safety Spectacles ZEKLER 15

Lightweight spectacles in frameless model.

- Polycarbonate lens.
- Frameless model.
- Adjustable lens angle.
- Clear, yellow or brown lens.
- Clear and yellow = UV protection.
- Brown = UV400.
- HC/AF = scratch resistant and anti-fog treated lens.

Complies with EN 166 class 1FN. Clear and yellow lens also with EN 170. Brown lens also with EN 172.

Code	Application	Lens	Fit	Unit	Pack
380620005	Spectacles	Clear HC/AF	L	PCS	12*
380620013	Spectacles	Yellow HC/AF	L	PCS	12*
380620021	Spectacles	Brown HC/AF	L	PCS	12*



HC
AF



Safety Spectacles ZEKLER 80

Flexible safety spectacles with a good fit.

- Polycarbonate lens.
- Soft nose bridge and sealing edge that fits tight.
- Delivered with adjustable neckband and detachable sidepieces.
- With neckband; suitable in combination with earmuffs.
- Clear or grey lens.
- Clear = UV protection.
- Grey = UV400.
- HC/AF = scratch resistant and anti-fog treated lens.

Complies with EN 166, class 1FN. Clear lens also with EN 170.

Grey lens also with EN 172.

Code	Application	Lens	Fit	Unit	Pack
380600833	Spectacles	Clear HC/AF	L	PCS	6*
380600841	Spectacles	Grey HC/AF	L	PCS	6*

Safety spectacles ZEKLER 81

Flexible safety spectacles with a good fit.

- Polycarbonate lens.
- Soft nose bridge and sealing edge that fits tight.
- Supplied with an adjustable neckband, suitable in combination with earmuffs.
- Adjustable side ventilation.
- Clear, grey or I/O (Indoor/Outdoor) lens.
- Clear = UV-protection.
- Grey and I/O = UV400.
- HC/AF = scratch resistant and anti-fog treated lens.

Complies with EN 166, class 1F. Clear and grey lens also with class 1FN.

Clear lens also with EN 170. Grey and I/O-lens also with EN 172.



HC
AF

Code	Description	Lens	Fit	Unit	Pack
380605600	Spectacles	Clear HC/AF	L	PCS	12*
380605618	Spectacles	Grey HC/AF	L	PCS	12*
380605626	Spectacles	I/O HC/AF	L	PCS	12*

Welding Spectacles ZEKLER 81

Flexible safety spectacles with a good fit and welding filter refractive index 3 and 5.

- Polycarbonate lens.
- Soft nose bridge and sealing edge that fits tight.
- Supplied with adjustable neckband, suitable for combination with earmuffs.
- Adjustable side ventilation.
- Welding filter refractive index 3 or 5.
- Protection against UV and IR radiation.
- HC/AF = scratch resistant and anti-fog treated lens.

Complies with EN 166, class 1FN and EN 169.



HC
AF

Code	Description	Lens	Fit	Unit	Pack
380605634	Welding spectacles	Refractive index 3	L	PCS	12*
380605642	Welding spectacles	Refractive index 5	L	PCS	12*



Safety Spectacles ZEKLER 25

Safety spectacles intended for use over prescription eyewear.

- Polycarbonate lens.
- Adjustable sidepieces.
- Adjustable lens angle.
- Can be used over prescription eyewear.
- Clear, yellow or grey lens.
- Clear and yellow = UV protection.
- Grey = UV400
- HC = scratch resistant lens.
- HC/AF = scratch resistant and antifog treated lens.

Complies with EN 166, class 1F (HC) or 1FN (HC/AF).

Clear and yellow lens also with EN 170. Grey lens also with EN 172.

Code		Lens	Fit	Unit	Pack
380600213	Spectacles	Clear HC	L	PCS	6*
380600221	Spectacles	Yellow HC	L	PCS	6*
380600239	Spectacles	Grey HC/AF	L	PCS	6*

Safety Spectacles ZEKLER 33

Safety spectacles intended for use over prescription eyewear..

- Polycarbonate lens.
- Wide field of vision and good ventilation.
- Can be used over prescription eyewear.
- Suitable also as visitor's safety spectacles.
- Clear or yellow lens.
- Clear and yellow = UV protection.

Complies with EN 166, Class 1FT and EN 170.



Code	Description	Lens	Fit	Unit	Pack
380600338	Spectacles	Clear	L	PCS	12*
380600346	Spectacles	Yellow	L	PCS	12*



HC
AF

Safety Goggles ZEKLER 95

- Polycarbonate lens.
- Ventilated frame.
- Soft, comfortable sealing edge that tightly follows the facial shape.
- Adjustable elastic band.
- Additionally tested in respect of protection against liquids [3], coarse dust particles [4] and resistance to fogging [N]
- UV-protection.
- HC/AF = scratch resistant and anti-fog treated lens.

Complies with EN166, Class 1BT34N and EN 170

Code	Description	Lens	Unit	Pack
380600940	Safety goggles	Clear HC/AF	PCS	1



HC
AF

Safety Goggles ZEKLER 90

- Clear polycarbonate lens or acetate lens with good resistance to chemicals.
- PVC frame that tightly follows the facial shape.
- Ventilated frame.
- Adjustable elastic band.
- Additionally tested in respect of protection against liquids [3], coarse dust particles [4] and resistance to fogging [N].
- Easily replaced lens.
- UV protection.
- HC/AF = scratch resistant and anti-fog treated lens.

Complies with EN 166, class 1BT34N (polycarbonate lens), class 1FT34 (acetate lens) and EN 170.

Code	Application	Lens	Unit	Pack
380600908	Safety goggles	Clear HC/AF PC	PCS	1
380600916	Safety goggles	Clear HC/AF PC	PCS	10*
380600924	Extra lens	Clear HC/AF PC	PCS	1
380600932	Extra lens	Clear HC/AF PC	PCS	60*



Safety Goggles ZEKLER 88

- Clear polycarbonate lens.
- PVC frame that tightly follows the facial shape.
- Ventilated frame.
- Adjustable elastic neckband
- Can be used over prescription eyewear.
- UV protection.
- HC/AF = scratch resistant and anti-fog treated lens.

Complies with EN 166, class 1BN and EN 170.

Code	Description	Colour	Unit	Pack
380600882	Safety Goggles	Clear	PCS	1
380600890	Replacement lens	Clear	PCS	1



HC
AF

Safety Goggles ZEKLER 44

- Clear polycarbonate lens.
- PVC frame that tightly follows the facial shape.
- Ventilated frame.
- Adjustable elastic neckband.
- Can be used over prescription eyewear.
- Additionally tested in respect of protection against liquids [3] and coarse dust particles [4].
- UV protection.
- HC/AF = scratch resistant and anti-fog treated lens.

Complies with EN 166, class 1B.

Code	Description	Lens	Unit	Pack
380600445	Safety Goggles	Clear HC/AF PC	PCS	100*

HEY! CATCH THE SUN

Some people have the advantage of working outdoors; others have to work inside. How you look at it is individual, like the choice of eyewear. Protective eyewear with 100% UV protection are glasses you can wear on sunny days - even at work! Remember that most models on the previous pages are also available with a sunscreen lens option.



Safety Spectacles ZEKLER Z101

Sporty safety spectacles with sun glare filter.

- Polycarbonate lens.
- Soft nose bridge.
- Soft, rubber coated sidepiece ends for extra comfort.
- Grey lens.
- UV400.
- HC/AF = scratch resistant and anti-fog treated lens.

Complies with EN 166, class 1FTN and EN 172.



Code	Application	Lens	Frames	Fit	Unit	Pack
380670018	Spectacles	Grey HC/AF	Blue Zebra/Black	M	PCS	6*
380670026	Spectacles	Grey HC/AF	Red metal/Black	M	PCS	6*



Safety Spectacles ZEKLER 201

Sporty safety spectacles with sun glare filter, specially adapted to narrower head forms.

- Polycarbonate lens.
- Soft nose bridge.
- Soft, rubber coated sidepiece ends for extra comfort.
- Grey lens.
- UV400.
- HC/AF = scratch resistant and anti-fog treated lens.

Complies with EN 166, class 1FHN and EN 172.



Code	Description	Lens	Fit	Unit	Pack
380650002	Spectacles	Grey HC/AF	S	PCS	6*



Safety Spectacles ZEKLER Z104

Sporty safety spectacles with sun glare filter.

- Polycarbonate lens.
- Soft nose bridge.
- Sidepieces made from a mixture of hard and soft plastic.
- Grey lens.
- UV400.
- HC/AF = scratch resistant and anti-fog treated lens.

Complies with EN 166, class 1FN and EN 172.

Code	Application	Lens	Fit	Unit	Pack
380670091	Spectacles	Grey HC/AF	M	PCS	6*



Safety Spectacles ZEKLER 106

Safety spectacles in a classic design with sun glare filter.

- Polycarbonate lens.
- Grey lens.
- UV400.
- HC/AF = scratch resistant and anti-fog treated lens.

Complies with EN 166, class 1FN and EN 172.

Code	Description	Lens	Fit	Unit	Pack
380670141	Safety spectacles	Grey HC/AF	M	PCS	6*

ACCESSORIES SAFETY SPECTACLES AND GOGGLES

Spectacles Case ZEKLER hard



Code	Application
380600767	Hard case with belt clip

Spectacles Case ZEKLER hard with felt lining



Code	Application
380600783	Hard case with felt lining

Spectacles Case ZEKLER hard for safety goggles



Code	Description
380600817	Hard case with belt clip

Spectacles Pouch ZEKLER



Code	Description
380600403	Microfibre pouch

Spectacles retainer cord ZEKLER



Code	Application
380600791	Universal and adjustable retainer cord

Spectacles retainer cord ZEKLER



Code	Application
380600809	Adjustable retainer cord with loop

HEY! COVER UP

It should be easy, we cannot say that often enough! When your work requires the entire face to be covered, it's a visor you need. These fit perfectly with Zekler hearing protection and are designed for hard hat attachment when needed.

THIS IS HOW YOU CHOOSE

Work that requires
EARMUFFS, FACE AND HEAD PROTECTION



Product options

67PC200 + 61F
67PC250 + 61F
67PC200C + 61F
67AC200 + 61F
67ME185 + 61F
67MS185 + 61F

Work that requires
EARMUFFS, FACE PROTECTION



Product options

67PC200 + 61A2 or 61B
67PC250 + 61A2 or 61B
67PC200C + 61B
67AC200 + 61B
67ME185 + 61A2 or 61B
67MS185 + 61A2 or 61B

Work that requires
FACE AND HEAD PROTECTION



Product options

67PC200 + 61E+61F
67PC250+ 61E+61F
67PC200C+ 61E+61F
67AC200+ 61E+61F
67ME185+ 61E+61F
67MS185+ 61E+61F

Work that requires
FACE PROTECTION



Product options

67PC200 + 61B
67PC250 + 61B
67PC200C + 61B
67AC200 + 61B
67ME185 + 61B
67MS185 + 61B
Zekler 10

Visor PC ZEKLER 67PC200

- Clear polycarbonate visor.
- Highest optical class, very good impact resistance.
- Width 200 mm, thickness 1 mm, height 200 mm.
- Fits visor carriers Zekler 61A2, 61F, 61E and 61B.

Complies with EN 166, class 1B39.

Code	Description	Lens	Dimension mm	Unit	Pack
380686006	Visor polycarbonate	Clear	200x200	PC	1



Visor PC ZEKLER 67PC200C

- Clear polycarbonate visor with chin protection..
- Highest optical class, very good impact resistance.
- Width 200 mm, thickness 1 mm, height 220 mm.
- Fits visor carriers Zekler 61A2, 61F, 61E and 61B.

Complies with EN 166, class 1B39.

Code	Description	Lens	Dimension mm	Unit	Pack
380686014	Visor polycarbonate	Clear	200x220	ST	1



Visor PC ZEKLER 67PC250

- Clear polycarbonate visor.
- Highest optical class, very good impact resistance.
- Anti-fog treated.
- Width 200 mm, thickness 1 mm, height 250 mm.
- Fits visor carriers Zekler 61A2, 61F and 61B.

Complies with EN 166, class 1B39N.

Code	Description	Lens	Dimension mm	Unit	Pack
380686022	Visor polycarbonate		200x250	ST	1



Visor AC ZEKLER 67AC200

- Clear cellulose acetate visor with good resistance to chemicals.
- Highest optical class, good impact resistance.
- Anti-fog treated.
- Width 200 mm, thickness 1 mm, height 200 mm.
- Fits visor carriers Zekler 61A2, 61F, 61E and 61B.

Complies with EN 166, class 1F3N.

Code	Description	Lens	Dimension mm	Unit	Pack
380686030	Visor cellulose acetate	Clear	200x200	PC	1



Visor Mesh ZEKLER 67ME185

- Etched, stainless steel mesh visor.
- Translucency 82-85,5%.
- Width 200 mm, height 185 mm.
- Fits visor carriers Zekler 61A2, 61F, 61E and 61B.

Complies with EN 1731, class F.

Code	Description	Lens	Dimension mm	Unit	Pack
380686055	Visor etched stainless steel mesh	Mesh	200x185	PC	1



Visor Mesh ZEKLER 67MS185

- Coated steel mesh visor.
- Translucency 67-70%.
- Width 200 mm, height 185 mm.
- Fits visor carriers Zekler 61A2, 61F, 61E and 61B.

Complies with EN 1731, class S.

Code	Description	Lens	Dimension mm	Unit	Pack
380686063	Visor coated steel mesh	Mesh	200x185	PC	1



**Code**

380686501

The combination of visor/visor carrier complies with EN 166 and EN 1731.

Visor carrier ZEKLER 61A2 for headband fitting

- Stable and comfortable visor carrier for mounting of the visor onto earmuffs.
- Forehead protection of very high impact resistant polycarbonate.
- Fits all Zekler earmuffs in the 400-series with headband.
- Fits Zekler visors 67PC200, 67PC200C, 67PC250, 67AC200, 67ME185 and 67MS185.

The combination of visor/visor carrier complies with EN 166 and EN 1731

**Code**

380686527

Clips 61E for ZEKLER visor carrier 61F

- Clip fastener for mounting of a visor carrier onto the safety helmet, without earmuffs fitted.
- Fits Zekler visor 67PC200, 67PC200C, 67PC250, 67AC200, 67ME185 and 67MS185.

This combination of visor/visor carrier complies with EN 166 and EN 1731.

**Code**

380686535

Visor carrier ZEKLER 61F for hard hat attachment

- Visor carrier for stable mounting of the visor on the hard hat.
- Fits all Zekler earmuffs in the 400-series for hard hat attachment.
- Fits Zekler visor 67PC200, 67PC200C, 67PC250, 67AC200, 67ME185 and 67MS185.

The combination of visor/visor carrier complies with EN 166 and EN 1731

**Code**

380686543

Head Browguard ZEKLER 61B

- Steady and comfortable head browguard for the visor when a hard hat is not required.
- Adjustable overhead band and elastic bands at the neck for comfort and stability.
- Fits Zekler visors 67PC200, 67PC200C, 67PC250, 67AC200, 67ME185 and 67MS185.

This combination of visor/visor carrier complies with EN 166 and EN 1731.

Ready Pac Visor System ZEKLER 61A2

Visor combination with Zekler earmuffs.

- Flip-up polycarbonate visor (Zekler 67PC200).
- Highest optical class, very good impact resistance.
- Visor carrier with forehead protection of very high impact resistant polycarbonate.
- Combined with earmuffs Zekler 402 with headband.
- Easy to fit with snap-on connectors.

Complies with EN 166, class 1B9, EN 1731 and EN 352-1

Code	Description	Type	Unit	Pack
380686600	Visor system	402-61A2-67PC200	PCS	1



Ready Pac Visor System ZEKLER 61B

Visor combination for use where a safety helmet is not required.

- Flip-up polycarbonate visor (Zekler 67PC200).
- Highest optical class; very good impact resistance.
- Stable and comfortable head fitting.
- Adjustable head band and elastic neckband for comfort and stability.

Complies with EN 166, class 1B9 and EN 1731.

Code	Description	Type	Unit	Pack
380686618	Visor system	61B-67PC200	PCS	1



Face Shield ZEKLER 10

- Clear, flip-up polycarbonate visor.
- Anti-fog treated visor.
- Highest optical class, very good impact resistance.
- Head fitting and forehead protection of very high impact resistant polycarbonate.
- Head fitting with ratched knob adjustment.
- The visor is light metal reinforced.
- The velour sweatband absorbs sweat and gives maximum comfort.

Complies with EN 166, class 1B.

Code	Application
380601005	Face Shield complete
380601013	Shield PC

Zekler 10 is a single product that does not fit with the above systems.

ZEKLER WELDING HELMETS

Irrespective of whether you weld every day or just once in a while, you are entitled to a comfortable welding helmet that is stable and has a good balance. Zekler will help you here! And you can always rest assured that Zekler welding helmets have high optical quality and performance that you can rely on. If your inner style police then wishes to show you the way - choose one of our graphic designs for your welding helmet!

LABELLING

The labelling on the welding cartridge provides you with information about how the product conforms to the requirements in EN 379.

An example of the labelling of auto-darkening welding filter follows here.

Labelling example	Optical properties							
	4	5	13	SK	1*	1*	1*	2*
Light shade, shade level	X							
Lightest dark scale no., range 1		X						
Darkest scale no., range 2			X					
Manufacturer's identification				X				
Optical class					X			
Diffusion of light, class						X		
Variation of luminous transmittance, class							X	
Angle dependence of luminous transmittance, class								X
EN standard number								X

* The optical properties are graded 1, 2 or 3 where 1 is the best value and 3 is the worst value.



Welding helmet ZEKLER 4050

Auto-darkening welding helmet for those who do not weld so often.

- Gives optimum protection of the entire face, eyes, ears and neck.
- Aerodynamic design to vent welding smoke.
- Soft rounded edges around the complete welding helmet ensure high comfort.
- Comfortable and stable headgear with ratched knob adjustment for good helmet balance.
- Outer and inner protective glass can be easily replaced without removing the welding cartridge.
- Weight 440 g including welding cartridge.

Complies with EN 166, EN 379, EN 175, DINplus.

Art. no.	Description	Lens	Unit	Content	Pack
380614008	Welding helmet Zekler 4050 incl. cartridge	Auto/ Variabel 9-13	ST		1
380614024	Welding cartridge Zekler 4050	Auto/ Variabel 9-13	ST		1
380614099	Outer protective glass Zekler 4050, 109.8x90.6x1.5 mm		PAC	5	1
380614107	Inner protective glass Zekler 4050, 95.9x47.2x1.0 mm		PAC	5	1
380614065	Headgear for Zekler 4050		ST		1
380614081	Sweatband for Zekler 4050		PAC	2	1
380614131	Magnifying lens +1.5		ST		1
380614149	Magnifying lens +2.0		ST		1
380614156	Magnifying lens +2.5		ST		1

Welding helmet	Zekler 4050
Optical class (EN 379):	1/1/1/2.
Switching time light - dark:	0,16 ms.
Infinite delay time dark - light	0.1 s - 1.0 s via exterior knob.
Number of sensors:	2
UV/IR protection refractive index:	Up to 13 constant.
Light shade, refractive index	3,5
Dark shade, refractive index	Variable 9-13.
Viewing surface:	98 x 44 mm.
Cartridge size:	110 x 90 x 9 mm.
Power source:	Solar cells + replaceable battery (2xAAA Alkaline battery). TEST button with alarm low battery.
Operating temperature:	-10 °C - +55 °C.
Storage temperature:	-20 °C - +70 °C.
Welding cartridge weight:	124 g
Low TIG amps rated:	≥5 amp [DC] ≥5 amp [AC]
Grinding mode:	Yes
Application range:	Spot welding (DC, AC) TIG (DC, Pulse) TIG (AC Pulse) MIG/MAG/CO ² MIG/MAG Pulse Plasma (cutting, welding) Air Carbon Arc Cutting Grinding



Welding helmet ZEKLER 4060

Auto-darkening welding helmet for those who demand high performance.
Also available in two different motif finishes for those who also have high demands on design.

- Gives optimum protection of the entire face, eyes, ears and neck.
- Aerodynamic design to vent welding smoke.
- Soft rounded edges around the complete welding helmet ensure high comfort.
- Comfortable and stable headgear with ratchet knob adjustment for good helmet balance.
- Available in two different motif finishes.
- Outer and inner protective glass can be easily replaced without removing the welding cartridge.
- Weight 445 g including welding cartridge.

Complies with EN 166, EN 379, EN 175, DINplus.

Welding helmet	Zekler 4060
Optical class [EN 379]:	1/1/1/2
Switching time light - dark:	0.25 ms
Infinite delay time dark - light:	0.1 s - 1.0 s via exterior knob
Number of sensors:	4
UV/IR protection refractive index:	Up to 13 constant
Light shade refractive index:	3.5
Dark shade refractive index:	Variable 5-8/9-13
Viewing surface:	95 x 62 mm
Cartridge size:	110 x 90 x 9 mm
Power source:	Solar cells + replaceable battery (1 x CR2450 lithium battery)
Operating temperature:	-10 °C - +55 °C.
Storage temperature:	-20 °C - +70 °C.
Welding cartridge weight:	130 g
Low TIG amps rated:	≥2 amp [DC] ≥2 amp [AC]
Grinding mode:	Yes
Application range:	Spot welding (DC, AC) TIG (DC, Pulse) TIG (AC Pulse) MIG/MAG/CO ₂ MIG/MAG Pulse Plasma (cutting, welding) Air Carbon Arc Cutting Gas welding Gas cutting Grinding

Art. no.	Description	Lens	Unit	Content	Pack
380614016	Welding helmet Zekler 4060 incl. cartridge	Auto/Variable 5-8/9-13	ST		1
380614032	Welding cartridge Zekler 4060	Auto/Variable 5-8/9-13	ST		1
380614040	Welding helmet Zekler 4060 SPARK incl. cartridge	Auto/Variable 5-8/9-13	ST		1
380614057	Welding helmet Zekler 4060 FLAME incl. cartridge	Auto/Variable 5-8/9-13	ST		1
380614115	Outer protective glass Zekler 4060, 111.9x91x1.5 mm		PAC	5	1
380614123	Inner protective glass Zekler 4060, 95.1x66.9x1.0 mm		PAC	5	1
380614073	Headgear for Zekler 4060		ST		1
380614164	Sweatband for Zekler 4060		PAC	2	1
380614131	Magnifying lens +1.5		ST		1
380614149	Magnifying lens +2.0		ST		1
380614156	Magnifying lens +2.5		ST		1



Welding Helmet ZEKLER Fusion

Zekler Fusion auto-darkening welding helmet

- Gives optimum protection of the whole face, as well as the eyes, ears and the throat.
- Aerodynamic design to vent welding smoke.
- The outer protective glass is convex to reduce the heat and reflex.
- Soft rounded edges around the complete welding helmet ensure high comfort.
- Comfortable headgear with ratchet knob adjustment.
- Outer and inner protective glass can be easily replaced without removing the welding cartridge.
- Weight, 430 g including welding cartridge.

Complies with EN 379 and EN 175.

Welding shield	Zekler Fusion
Optical class [EN 379]:	1/1/1
Switching time light-dark:	0,15 ms (+23°C)
Infinite delay time dark - light:	0,2 - 0,8 s
UV/IR protection refractive index:	UV15 / IR 14 permanent
Light shade refractive index:	4
Dark shade refractive index:	Variable 9-13
Viewing surface:	95x46,5 mm
Power source:	A solar-panel - no battery change
Operating temperature:	-10°C till +60°C
Welding cartridge weight:	95 g

Code	Description	Lens	Unit	Contents	Pack
380610006	Welding helmet Zekler Fusion. incl. cartridge	Auto/Variabel 9-13	ST		1
380611004	Welding cartridge	Auto/Variabel 9-13	ST		1
380612002	Outer protective glass		PAC	10	1
380612010	Inner protective glass		PAC	10	1
380612044	Sweatband		PAC	5	1



Welding Helmet ZEKLER W130

- Made in fireproofed plastic.
- Flip-up welding glass.
- Adjustable headband with ratchet knob adjustment.
- In the up-position the eyes are protected by clear glass.
- Weight 495 g.
- Supplied with welding glass 110x60 mm, refractive index 11.

Complies with EN 166 and EN 175.

Code	Description	Unit	Pack
380613000	Welding Helmet Zekler W130	PCS	1
380612010	Inner protective glass	PAC	1
380612044	Sweatband	PAC	1



RESPIRATORY PROTECTION

It is about your lungs. It is about your respiratory passages. In order to perform their vital functions both today and in the future, you need to protect them from harmful particles. Some particles are not just unpleasant to breathe, but actually so harmful that they can cause life-long and sometimes fatal illness.

First and foremost 100% usage applies and to use respiratory protection during an entire day means it must fit your face and be comfortable to use.



HEY! BREATHE

Filtering half masks are used to prevent harmful particles entering the respiratory tract. In order to be able to safely choose the right type of filtering half mask, it is important to determine what particles exist in the surrounding environment and in what concentrations they are found. It is also important, to obtain optimum protection from the mask so it can easily and flexibly be adapted to the width and shape of the face, etc. so that particle leakage is prevented.

We have a range of filtering half masks that are perfect when you want to work comfortably in risk environments where this type of protection is demanded.

HOW DOES IT WORK!

When inhaling air passes through the filter material; when exhaling the air passes through the filter material or through the exhalation valve. The protective function of filtering half masks consists of high-performance filter material, which is combined with traditional mechanical filtration and advanced filtration technology. Particles are captured and effectively retained in the filter material.

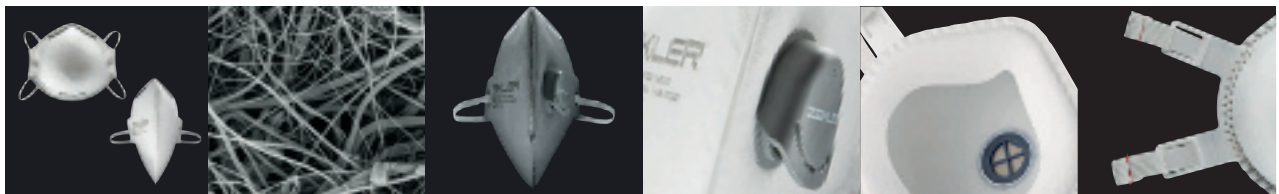
The composition of the filter material, type, surface weight and performance are critical to how effectively particles are filtered, as well as to the level of breathing resistance. If the mask is equipped with an exhalation valve the breathing resistance will be lower. Filtering half masks from Zekler in a foldable design incorporate a new innovative filter material which reduces breathing resistance

to a minimum, at the same time as offering a very high degree of filter efficiency. In comparison with the maximum allowable breathing resistance in the current standard EN 149:2001 + A1:2009, Zekler masks in a foldable design have significantly lower resistance - between 68% - 82%, below the applicable limit value. Filtering half masks are only suitable to be worn with normal oxygen content in the air.

NO BEARDS!

Your filtering half mask gives good and the right protection when used correctly and sits tight. If you have a beard or heavy stubble it will not sit tight against the face and this will significantly reduce the protection factor and will then not provide adequate protection.

FUNCTIONS



FORM

Foldable or cup shaped masks. It is best if you try them on to find the model that suits you best.

MATERIAL

Very effective filter material captures and effectively retains particles at the same time as giving very low breathing resistance.

ODOUR FILTER

Foldable model with an integrated layer of active carbon that protects against bad-smelling organic vapours and gases below the hygienic limit value.

EXHALATION VALVE

Valve that very effectively ventilates moisture, heat and carbon dioxide and provides comfortable use throughout the working day.

SEAL

Flexible, soft nose seal, on some models around the whole inside of the mask.

ELASTIC ADJUSTMENT

Endless, woven elastic band or two woven elastic bands with 4-point buckles for perfect alignment and fit.



FFP2



FFP3

PROTECTION CLASSES FFP2 and FFP3.

PROTECTION FACTOR

The protection factor is a measure of the protective equipment's capacity to reduce health risks. The protection factor given by a filtering half mask is determined by the sum of leakage from the environment. The protection factor indicates the mask's ability to clean the air and states how many times, up to the occupational exposure limit value, that the filtering half mask may be used.

The protection factor concept can be used as a tool when choosing a filtering half mask - the more dangerous air pollution there is in the environment, the higher the protection factor the mask must provide. In EN 529:2005 there is a list of the nominal protection factors that apply for filtering half masks.

The following filtration efficiency and nominal protection factors apply to filtering half masks approved according to EN 149:2001+A1:2009:

Protection class	EN 149:2001+A1: 2009 filtration efficiency, paraffin oil	Nominal protection factor according to EN 529:2005
FFP1 *	80%	4
FFP2 **	94%	12
FFP3 ***	99%	50

* Not against carcinogenic and radioactive substances, microorganisms (bacteria, viruses, spores), or against biochemical compounds (enzymes, hormones).

** Not against microorganisms (viruses, spores), or biochemical compounds (enzymes, hormones).

*** Protects against all types of particles.

CLASSIFICATION AND MARKING

Filtering half masks are approved in the protection classes FFP1, FFP2 and FFP3 and must satisfy requirements such as: how effectively particles are removed, breathing resistance and leakage. A higher class also covers the lower classes. Zekler's filtering half masks are approved in protection classes FFP2 and FFP3.

Filtering half masks are tested and approved according to EN 149:2001+A1:2009. Paraffin oil as an aerosol is used in the test to simulate particles, i.e. masks are exposed to liquid particles, which are normally harder to filter than solid particles with this type of mask. Also, breathing resistance must not exceed specified levels at different airflows.

Filtering half masks can also undergo a Dolomite test according to EN 149:2001+A1:2009, which simulates a heightened level of solid particles similar to situations in e.g. a mine. Masks which after the Dolomite test meet the requirements for filtration efficiency and breathing resistance may be marked D.

Masks marked R = Reusable. These may be used for more than one work shift, provided that the manufacturer provides instruction about how the mask should be cleaned. The Dolomite test is mandatory in order to mark masks with R.

Masks marked NR = Not Reusable. These may be used at most during just one work shift and are then discarded. The Dolomite test is optional for masks marked NR.

If the mask is damaged or a sensation of a significantly increased breathing resistance is experienced the mask must always be replaced.

LABELLING

Filtering half masks that have been tested and approved according to EN 149:2001+A1:2009 shall at a minimum be marked with:

- Name/brand/other that identifies the manufacturer/distributor
- Type of mask and protection class
- Number and year of publication of the EN standard
- The CE symbol and name of the notified body

Batch marking can be included as a supplement.





Filtering half mask ZEKLER 1402, 1402V FFP2

Comfortable, filtering half mask in a foldable design. New innovative filter material providing very high filtering efficiency, at the same time providing an exceptionally low breathing resistance. Endless, woven elastic band with elastic stops makes the mask easy to adjust. Soft, pliable chin section for an optimal fit. Exhalation valve [1402V] which very effectively ventilates moisture, heat and carbon dioxide and provides comfortable use during the entire work shift.

- Protection class FFP2, protects against solid and liquid particles 12 x occupation exposure limit value.
- For use during one single work shift [NR].
- Dolomite tested [D].
- New innovative filter material.
- Very high filter efficiency combined with exceptionally low breathing resistance.
- Very effective exhalation valve that ventilates heat, moisture and carbon dioxide from the mask.
- Flexible, soft nose seal.
- Endless, woven elastic band with elastic stops for optimum fit.
- Soft pliable chin section for best possible fit.
- Hygienically individually packed in plastic bag alternatively in a blister 3-pac.

Complies with EN 149:2001+A1:2009.

Code	Description	Colour	Classification	No. per pack	Unit	Pack
380680165	1402 without valve	White	FFP2 NR D	20	PCS	20
380680173	1402 without valve	White	FFP2 NR D	3	PAC	1
380680290	1402 without valve	White	FFP2 NR D	200 bulk	PCS	200
380680199	1402 with valve	White	FFP2 NR D	15	PCS	15
380680207	1402 with valve	White	FFP2 NR D	3	PAC	1
380680295	1402 with valve	White	FFP2 NR D	200 bulk	PCS	200



Filtering half mask ZEKLER 1403V FFP3

Comfortable filtering halfmask in a foldable design. New innovate filter material providing very high filtering efficiency, at the same time providing an exceptionally low breathing resistance. Endless, woven elastic band - either with or without elastic stops - makes the mask easy to adjust. Soft, pliable chin section for an optimal fit. Exhalation valve which very effectively ventilates moisture, heat and carbon dioxide and provides comfortable use during the entire work shift.

- Protection class FFP3, protects against solid and liquid particles 50 x occupational exposure limit value.
- For use during one single work shift [NR].
- Dolomite tested [D].
- New innovate filter material.
- Very high filter efficiency combined with exceptionally low breathing resistance.
- Very effective exhalation valve that ventilates heat, moisture and carbon dioxide from the mask.
- Flexible, soft nose seal.
- Endless, woven elastic band - either with or without elastic stops - for an optimal fit.
- Soft, pliable chin section for best possible fit.
- Hygienically packaged in plastic bag alternatively in a blister 3-pac.

Complies with EN 149:2001+A1:2009

Code	Description	Colour	Classification	No. per pack	Unit	Pack
380680223	1403 with valve, with elastic stops	White	FFP3 NR D	15	PCS	15
380680231	1403 with valve, with elastic stops	White	FFP3 NR D	3	PAC	1
380680285	1403 with valve, with elastic stops	White	FFP3 NR D	200 bulk	PCS	200
380680280	with valve, without elastic stops	White	FFP3 NR D	200 bulk	PCS	200



Filtering half mask ZEKLER 1202VC FFP2

Comfortable filtering half mask in a foldable design. Very efficient filter material, at the same time giving a very low breathing resistance. An integrated layer of active carbon for comfort, even in environments with organic vapour and gasses. Endless, woven elastic band easy to adjust. Exhalation valve which very efficiently ventilates moisture, heat and carbon dioxide providing comfortable use during the entire work shift.

- Protection class FFP2, protecting against solid and liquid particles 12 x occupational exposure limit value.
- Integrated layer of active carbon protecting against organic vapour and gases below the allowed occupational exposure limit value.
- For use during one single work shift (NR).
- Dolomite tested (D).
- Very efficient exhalation valve that ventilates heat, moisture and carbon dioxide from the mask.
- Flexible, soft nose seal.
- Endless, woven elastic band for optimal fit.
- Hygienically individually packaged in a plastic bag, alternatively in a blister 3-pac.

Complies with EN 149:2001+A1:2009.

Code	Description	Colour		Qty per package	Unit	Pack
380680090	1202 with valve and active carbon	Grey	FFP2 NR D	15	PC	15
380680108	1202 with valve and active carbon	Grey	FFP2 NR D	3	PAC	1





Filtering half mask ZEKLER 1302 FFP2

Comfortable filtering half mask in a cupshaped design. Efficient filter material providing a low breathing resistance. Endless, woven elastic band with elastic stops makes the mask easy to adjust. Soft nose seal of textile material for comfortable use.

- Protection class FFP2, protecting against solid and liquid particles 12 x occupational exposure limit value.
- For use during one single work shift (NR).
- Dolomite tested (D).
- Flexible, soft nose seal of textile material.
- Endless, woven elastic band with elastic stops for an optimal fit.

Complies with EN 149:2001+A1:2009.

Code	Description	Colour	Classification	Qty per package	Unit	Pack
380680116	1302 without valve	White	FFP2 NR D	20	PCS	20
380680124	1302 without valve	White	FFP2 NR D	3	PAC	1



Filtering half mask ZEKLER 1302V FFP2

Comfortable, filtering half mask in a cupshaped design. Efficient filter material providing a low breathing resistance. Endless, woven elastic band with elastic stops makes the mask easy to adjust. Soft nose seal of textile material for comfortable use. Exhalation valve that very efficiently ventilates moisture, heat and carbon dioxide making for comfortable use during the entire workshift.

- Protection class FFP2, protecting against solid and liquid particles 12 x occupational exposure limit value.
- For use during one single work shift (NR).
- Dolomite tested (D).
- Very efficient exhalation valve that ventilates heat, moisture and carbon dioxide from the mask.
- Flexible, soft nose seal of textile material.
- Endless, woven elastic band with elastic stops for optimal fit.

Complies with EN 149:2001+A1:2009.

Code	Description	Colour	Classification	Qty per package	Unit	Pack
380680132	1302 with valve	White	FFP2 NR D	10	PC	10
380680140	1302 with valve	White	FFP2 NR D	3	PAC	1



Filtering half mask ZEKLER 1303V FFP3

Comfortable, filtering half mask in a cupshaped design. Efficient filter material providing a low breathing resistance. Two woven adjustable elastic bands for the best fit. Soft nose seal of textile material around the entire mask for comfortable use. Exhalation valve that very efficiently ventilates moisture, heat and carbon dioxide making for comfortable use during the entire work shift.

- Protection class FFP3, protecting against solid and liquid particles 50 x occupational exposure limit value.
- For use during one single work shift (NR).
- Dolomite tested (D).
- Very efficient exhalation valve that ventilates heat, moisture and carbon dioxide from the mask.
- Flexible, soft nose seal of textile material around the entire mask.
- Two woven elastic bands for optimal adjustment for the best fit.
- Hygienically individually packaged in a plastic bag.

Complies with EN 149:2001+A1:2009.

Code	Description	Colour	Classification	Qty per package	Unit	Pack
380680157	1303 with valve	White	FFP3 NR D	5	PC	5

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