



KEMPPI

WELDING SAFETY

Product catalogue

CONTENTS

Safety that keeps up with welders' challenges and changing risks	4
Good to know about welding risks and safety	6
Product overview	8
ZETA	10
Zeta welding helmets and respiratory systems	11
Main benefits	12
Key features	13
Product selection table	46
Zeta grinding helmets and respiratory systems	49
Main benefits	50
Key features	51
Product selection table	63
S-LINE	64
S-line auto-darkening welding masks	65
Main benefits	66
Key features	67
Product selection table	74
GAMMA	76
Gamma GTH3	77
Main benefits	78
Key features	79
Product selection table	93
DELTA	94
Delta Fresh Air	95
Main benefits	96
Key features	97
Product selection table	108
BETA	110
Beta helmets, respiratory systems, and safety helmets	111
Main benefits	112
Key features	113
Product selection table	159
ALFA	162
Alfa welding masks	163
Main benefits	164
Key features	165
Product selection table	171

AUTO-DARKENING WELDING FILTERS 172

ADF specification and compatibility	174
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RESPIRATORY PROTECTION EQUIPMENT 176

Powered filter units for safe and easy breathing	177
PFU 210e	178
Kemppi MC-6 Multicharger	179
RSA 230	180
FA Flow Control	181
FA Pressure Flow Control	182
Filters for PAPR	183
Breathing air delivery solutions	184
Recommended maintenance guide	185

WELDING WORKWEAR 186

Main benefits	188
Key features	189
Welding workwear overview	190
Size charts for clothes	193

WELDING GLOVES 200

Kemppi Gloves for welding and fabrication	201
Main benefits	202
Key features	203
Main features	204
Size chart for gloves	205
Certified Protection for the eyes and face	218



SAFETY THAT KEEPS UP WITH WELDERS' CHALLENGES AND CHANGING RISKS

Ask a welder their challenges at work and the answer still starts with the same fundamentals such as arc radiation, intense heat, spatter, and electrical energy. When Kemppi began in 1949 in Finland, these were the same problems every welder faced and still manages today. The arc will always generate powerful light and heat; current will always be present; molten metal will always behave like molten metal.

What has changed is the operating environment around the arc. More welding is carried out indoors and in confined spaces, where airborne exposure can accumulate over time. At the same time, expectations have tightened as the evidence base has strengthened. International health authorities have classified welding fumes as carcinogenic to humans (Group 1), reinforcing

the importance of robust exposure control and correctly selected protective measures.

A credible safety approach entails a system of controls that begins with hazard reduction at source and ends with PPE as the final barrier. For PPE, the quality threshold is high: protective performance must remain stable during movement, maintain fit and sealing, and be wearable across long shifts.

Making safety measurable

In the EU, PPE placed on the market must meet Regulation (EU) 2016/425 and follow defined conformity assessment procedures linked to CE marking and technical documentation. The practical value of this framework is transparency: it connects what a product

claims to what it can be shown to do using standardised test methods.

At Kemppi, PPE performance is measured well before product certification. Our in-house R&D in Finland covers design, material selection, prototyping, laboratory testing, verification, and readiness for production. Early prototypes are typically produced using 3D printing to validate design, ergonomics and usability quickly. Once the design is sufficiently validated, development progresses to mass-produced parts after tools are manufactured. Keeping this loop in-house shortens iteration cycles and strengthens accountability, and design decisions can be evaluated directly against test outcomes.

This is where compliance becomes meaningful. For example, Kemppi's glove documentation references Regulation (EU) 2016/425 and lists harmonised standards including EN 12477 (welders' gloves), EN 407 (thermal risks), EN 388 (mechanical risks), and EN 511 (cold protection). This approach demonstrates how a field problem can be translated into engineered targets and anchored to defined requirements.

From welder feedback to engineering requirements

We constantly gather welder feedback through site visits, pilot users, test programs, distributor-led trials, and standardised feedback forms. It is then reviewed by R&D and Product Management and translated into measurable requirements.

A clear example comes from harsh winter conditions, where an end user could not find a glove that was warm enough for sub-zero environments while remaining compliant for welding work. Existing options forced welders into trade-offs between warmth, dexterity, and certified protection. Kemppi worked with the end user

to define real operating constraints such as temperature exposure, dexterity needs, and safety targets, and translated these into design requirements for insulation, materials, protection levels, and usability.

Designing Safety into welding

To validate outcomes, Kemppi tests safety products under conditions that reflect welding work. The performance criteria include resistance to heat and spatter without deformation, durability against impact and abrasion, reliable function in cold environments, stable fit and sealing during movement, and ergonomics that reduces strain over a full shift.

In practice, the difference between compliant equipment and effective protection is consistency. At Kemppi, welding safety relies on controls that are engineered and verified by welders.



GOOD TO KNOW ABOUT WELDING RISKS AND SAFETY

Why do the prices differ for welder's respirators?

The main reason is system performance and this affects several areas - safety and standards conformity, specification, plus usability and comfort. For example, the primary value of wearing a respirator is to protect your lungs. Lower priced PAPR units normally have higher levels of inward leakage, meaning higher levels of unfiltered air entering the breathing zone. For example TH1 rated units = 10 % inward leakage, TH2 rated units = 2 % inward leakage and TH3 rated units = 0.2 % inward leakage.

PAPR or supplied air respirator?

Health and safety regulations and welding environments

can vary enormously, therefore always consult your local Safety officer before commencing work. The best way to select the most appropriate respiratory device is to first measure the local air quality through an independent and qualified testing body and know the contaminants present. This analysis can be carried out by a local expert service provider.

Welding must always be carried out in well ventilated work areas with oxygen levels exceeding 17% by volume. Certified powered air purifying respirators and supplied air respirators offer effective protection for wide ranging welding environments, where fume and gaseous contamination remains within the scope of the device and the occupational exposure limits (OEL) set by the Health & Safety Executive or equivalent

national authority. Never use a welder's respirator in atmospheres that present 'Immediate Danger to Life or Health' (IDLH). In enclosed welding environments where there could be a build-up of gases such as argon, helium, CO₂ or carbon monoxide, supplied air respirators should be used.

Isn't it cheaper to buy disposable welder's face masks?

Disposable welder's face masks are a cheaper solution if only welding occasionally. However professional welders and fabricators would typically use 1 x disposable mask per day and over time those costs would multiply and outweigh the investment cost of a quality PAPR or supplied air system, including replacement maintenance filters.

Do welder's respirators filter ozone gas?

Ozone is a naturally occurring gas in the upper and lower atmosphere, however it can be created in the welding environment to a greater or lesser extent by ultraviolet radiation from the welding arc breaking down molecular oxygen. Typically welder's respirators do not 'filter' ozone in the same way that they protect us against welding gases and airborne particles, but the process of conversion back to oxygen is positively influenced as ozone gas comes into contact with and impacts solid surfaces such as the particle filter substrate and hard plastic surfaces of the PAPR respirator, air tubes and diffuser. Gas filters such as the Kemppi A1B1E1 gas filter are filled with tightly packed carbon granules and these are more effective to accelerate the conversion process and therefore more suitable where higher concentrations may be present from higher welding currents and productivity.

Why should I use respiratory protection?

Dangerous elements are present in the welding workplace and suitable respiratory protection should be used in order to protect both short and long-term health. Welding fumes and gases are created through the burning of parent metals, welding filler materials, their coverings, shielding gases, paints, chemical reactions from the arcs ultraviolet light and heat process, plus contaminants in the air from solvents and cleaners.

Exposure to welding fumes is a serious occupational hazard and can cause numerous health problems if carried out without respiratory protection. Ultraviolet radiation given off by welding reacts with oxygen and nitrogen in the air to form ozone and nitrogen oxides, which can be life threatening in high concentrations, cause lung disease, and in small concentrations, irritate the nose and throat.

A single production welder can produce 20-40 g of fumes per hour, which corresponds to about 35-70 kg of welding fumes per year. Occupational exposure limit levels (OEL) to welding fume particulate is defined by mg/m³, i.e. the concentration of fume in the air, measured by its weight in milligrams per cubic meter of air. For general welding fumes the point at which it is recommended to use respiratory protection is 5 mg/m³. Check your local standards authority and recommendations and ensure the Kemppi respiratory device you select meets your personal needs.

PRODUCT OVERVIEW

Welding and grinding helmets



Alfa E60P / E60A

Lightweight and durable helmet for light to medium-duty welding. Compact design with flip-up passive or automatic welding lens options.



Beta E90P / E90A / E90X

Lightweight helmet for welding, grinding, and cutting. Ergonomic design with flip-up passive or automatic welding lens and a GapView function.



Beta E90A / E90P SH Kit

Beta e for SH product range provides full head and face protection with Beta e90 SH welding mask with passive or auto-darkening filter, a hard hat, and earmuffs.



Gamma 100A

Premium welding helmet for demanding professional use, offering superior visibility and all-day comfort. Features advanced auto-darkening lens technology with a flip-up design, integrated LED lights, and a GapView function.



Zeta W200 / W200X / W210 / W210X

Lightweight and well-balanced helmets for welding, grinding, inspection, and cutting. Large viewing area, and working LED lights (X models) provide advanced visibility. Large ADF scale up to DIN 14 (210 models).



Zeta G200 / G200X

Lightweight and balanced grinding helmet with a large 180° viewing area and X model has LED working lights.



S-line S1020 / S1030 / S1040

S-line auto-darkening welding masks offer high-quality vision features, added comfort, and trusted safety technology accessible to every welder.

Grinding respirator systems



Zeta Fresh Air G201 / G201X

Complete respiratory protection system that includes a well-balanced grinding helmet with a large visor, LED working lights (X model), and a certified Kemppi respirator or supplied air regulator.

Welding respirator systems



Beta Fresh Air E90 PFA / SFA / XFA

Complete respiratory protection system that includes a lightweight Beta helmet, with auto-darkening (SFA & XFA) or passive filter (PFA) options, and a TH2-rated Kemppi respirator or supplied air regulator.



Gamma GTH3 SFA / XFA

Complete respiratory protection system for demanding industrial environments. Combines advanced auto-darkening lens technology, GapView function, LED lights, and a comfortable ComFlex headband for maximum safety, visibility, and all-day usability.



Delta 90 SFA / Delta+ 90 XFA

Delta models provide combined head and respiratory protection for demanding welding conditions. An integrated hard hat, auto-darkening filter or grinding visor, and a TH2-rated respirator ensure safety, visibility, and breathing comfort.



Zeta Fresh Air W201 / W201X / W211 / W211X

Complete respiratory protection system that includes a well-balanced welding and cutting helmet, LED working lights (X models), and a TH3-level respirator or supplied air regulator. Large ADF scale up to DIN 14 (211 models).



S-line Fresh Air

Complete respiratory protection system with a comfortable auto-darkening helmet and TH3-level respirator. Large 100 × 60 viewing area and VISION+ technology provide advanced visibility.

Welding gloves and welding workwear



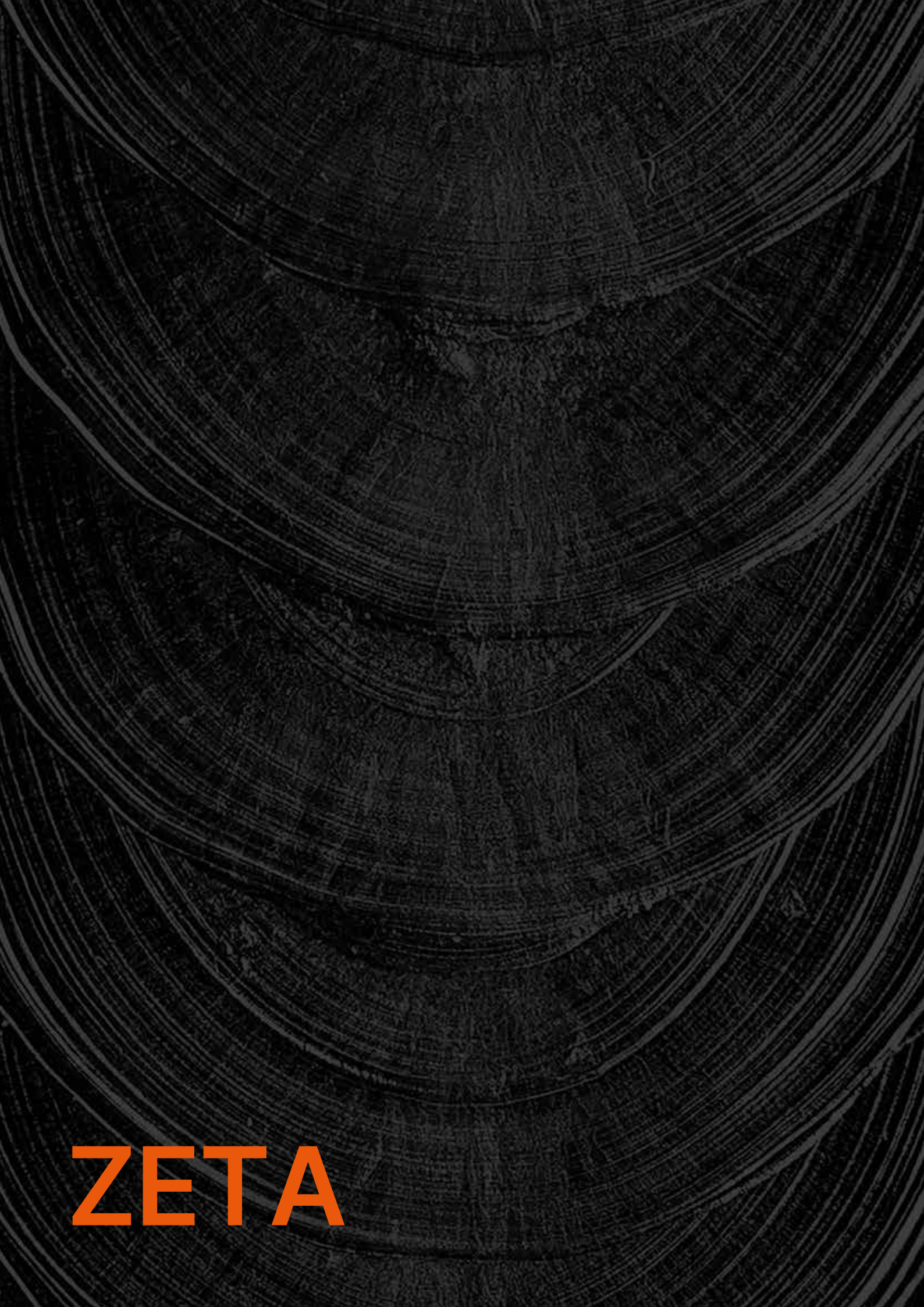
Welding Gloves

High-quality welding glove range with multiple models, fits, and sizes to suit different welding applications. Each glove is made from carefully selected premium materials, offering certified protection, comfort, and dexterity.



Welding Workwear

Durable welding workwear designed by welders for welders, combining certified flame-retardant protection with ergonomic comfort. Made from premium materials and equipped with practical, adjustable features.



ZETA



ZETA WELDING HELMETS AND RESPIRATORY SYSTEMS

Visit website
Scan QR code or
[click here](#)



The Zeta welding helmets and Fresh Air respiratory systems bring a new era to complete protection with a lightweight welding and cutting helmet and a certified Kemppi respirator.

MAIN BENEFITS



Lightweight and well-balanced

A balanced design and lightweight shell reduce neck strain and improves work ergonomics.



Top-of-the-line vision features

Advanced ADF with a large viewing area and VISION+ technology.



TH3-level breathing protection

Synergy between welding helmet and respirator stops 99.8% of fumes, gases, and particles.

KEY FEATURES



Good balance - improved work accuracy

The well-balanced, narrow-shaped design with the perfect weight distribution offers extra comfort and endurance, resulting in better work accuracy.



Integrated work lights light up your day

The automatic function automatically turns off the working lights when working in bright lights. When the arc goes off and when working in dim lighting, the work lights turn automatically on. An automatic OFF function turns lights off if no movement is detected in approximately 13 minutes in both AUTO and ON modes and turns the lights on when motion is detected again.



Conveniently designed battery pack

The battery pack is located on the neckband, which further improves the welding helmet's balance. It is easy to charge with the supplied USB charger, and you can check the power level by simply pushing the button outside the shell.



Advanced vision features

The Zeta welding helmet's ADF has a large viewing area of 110 mm in width and 60 mm in height. It is an improved version with VISION+ technology, increasing the quality of vision and work accuracy. The ADF DIN 2.5 light state means you can enjoy sharp colors and visibility through the filter when the welding arc is inactive.

ZETA W200

9873800

Zeta W200 welding helmet with automatic darkening welding filter (ADF). The Zeta welding helmet with large ADF viewing area 110 mm in width and 60 mm in height. The Zeta ADF VISION+ technology enhances the quality of vision as well as work accuracy and reduces eye fatigue.



Technical data

Welding filter type	SA 60Z
ADF view size (mm)	110×60
ADF shade range	8-12
ADF light state	2.5
ADF switching time	0.1 ms
ADF sensors	3
ADF remote control	Yes
ADF classification	V1
Flip-up visor	No
Standards	EN ISO 16321-1 E, EN ISO 16321-2, AS/NZS 1337.1, AS/NZS 1338.1

Accessories, spares and consumables

Comfort Band Padding 5 pcs • SP013231		Magnifying Glass Holder • SP023179	
Visor for Welding Helmets 5 pcs • SP022579		Inner Protection Plate 113×65x-1mm 5 pcs • SP023221	

Sweatband 2 pcs • SP9873018		XA 60Z Welding Filter • SP9873078	
Headband • SP009023		Zeta W 200 Helmet Body • SP9873800	
Neck Band • SP010728		Magnifying Lens 1.0x • 9873260	
Adjuster Set • SP014349		Magnifying Lens 1.5x • 9873261	
Visor Locks • SP022596		Magnifying Lens 2.0x • 9873262	
SA 60Z Welding Filter • SP9873076		Magnifying Lens 2.5x • 9873263	
SA 60Z Battery Casing • SP9873077		Kemppi Tool Bag • SP010090	

ZETA W200X

9873801

Zeta W200x welding helmet with automatic darkening filter (ADF) and integrated LED work lights. The Zeta welding shield with large ADF viewing area 110 mm in width and 60 mm in height. The Zeta ADF VISION+ technology enhances the quality of vision as well as work accuracy and reduces eye fatigue. The integrated LED work lights give you an extra boost for the entire workday.



Technical data

Welding filter type	SA 60Z
ADF view size (mm)	110×60
ADF shade range	8-12
ADF light state	2.5
ADF switching time	0.1 ms
ADF sensors	3
ADF remote control	Yes
ADF classification	V1
Flip-up visor	No
LED battery type and voltage	Li-ion 3.65 V, 4 Ah, 14.6 Wh, rechargeable
Standards	EN ISO 16321-1 E, EN ISO 16321-2, AS/NZS 1337.1, AS/NZS 1338.1

Accessories, spares and consumables

Comfort Band Padding 5 pcs • SP013231		Zeta 200x LED Light Battery Unit • SP022617	
Visor for Welding Helmets 5 pcs • SP022579		Magnifying Glass Holder • SP023179	

Inner Protection Plate 113×65x-1mm 5 pcs • SP023221		Work Lights W200x • SP024057	
Sweatband 2 pcs • SP9873018		SA 60Z Welding Filter • SP9873076	
Headband • SP009023		SA 60Z Battery Casing • SP9873077	
Work Light Lens Cover Plate Set, 3 sets • SP010526		XA 60Z Welding Filter • SP9873078	
Neck Band • SP010728		Zeta W200x Helmet Body • SP9873801	
Adjuster Set • SP014349		Magnifying Lens 1.0x • 9873260	
Visor Locks • SP022596		Magnifying Lens 1.5x • 9873261	
200x Battery Holder • SP022618		Magnifying Lens 2.0x • 9873262	

Magnifying Lens 2.5x

- 9873263



Kemppi Tool Bag

- SP010090



ZETA W210

9873806

Zeta W210 welding helmet with automatic darkening welding filter (ADF) up to DIN shade 14. The Zeta welding helmet has a large ADF viewing area of 110 mm in width and 60 mm in height. The Zeta ADF VISION+ technology enhances the quality of vision as well as work accuracy and reduces eye fatigue. This version does not include the built-in automatic LED work lights.



Technical data

Welding filter type	XA 60Z
ADF view size (mm)	110×60
ADF shade range	9-13/14
ADF light state	3
ADF switching time	0.1 ms
ADF sensors	3
ADF remote control	Yes
ADF classification	V1
Flip-up visor	No
Standards	EN ISO 16321-1 E, EN ISO 16321-2, AS/NZS 1337.1, AS/NZS 1338.1

Accessories, spares and consumables

Comfort Band Padding 5 pcs • SP013231		Magnifying Glass Holder • SP023179	
Visor for Welding Helmets 5 pcs • SP022579		Inner Protection Plate 113×65x-1mm 5 pcs • SP023221	

Sweatband 2 pcs • SP9873018		Magnifying Lens 1.0x • 9873260	
Headband • SP009023		Magnifying Lens 1.5x • 9873261	
SA 60Z Welding Filter • SP9873076		Magnifying Lens 2.0x • 9873262	
SA 60Z Battery Casing • SP9873077		Magnifying Lens 2.5x • 9873263	
Zeta W 200 Helmet Body • SP9873800		Universal Leather Neck Protector • SP015579	

ZETA W210X

9873807

Zeta W210x welding helmet with automatic darkening filter (ADF) up to DIN shade 14 and integrated LED work lights. The Zeta welding shield has a large ADF viewing area of 110 mm in width and 60 mm in height. The Zeta ADF VISION+ technology enhances the quality of vision as well as work accuracy and reduces eye fatigue. The integrated LED work lights give you an extra boost for the entire workday.



Technical data

Welding filter type	XA 60Z
ADF view size (mm)	110×60
ADF shade range	9-13/14
ADF light state	3
ADF switching time	0.1 ms
ADF sensors	3
ADF remote control	Yes
ADF classification	V1
Flip-up visor	No
LED battery type and voltage	Li-ion 3.65 V, 4 Ah, 14.6 Wh, rechargeable
Standards	EN ISO 16321-1 E, EN ISO 16321-2, AS/NZS 1337.1, AS/NZS 1338.1

Accessories, spares and consumables

Comfort Band Padding 5 pcs • SP013231		Zeta 200x LED Light Battery Unit • SP022617	
Visor for Welding Helmets 5 pcs • SP022579		Magnifying Glass Holder • SP023179	

Inner Protection Plate 113×65x-1mm 5 pcs • SP023221		Work Lights W200x • SP024057	
Sweatband 2 pcs • SP9873018		SA 60Z Welding Filter • SP9873076	
Headband • SP009023		SA 60Z Battery Casing • SP9873077	
Work Light Lens Cover Plate Set, 3 sets • SP010526		XA 60Z Welding Filter • SP9873078	
Neck Band • SP010728		Zeta W200x Helmet Body • SP9873801	
Adjuster Set • SP014349		Magnifying Lens 1.0x • 9873260	
Visor Locks • SP022596		Magnifying Lens 1.5x • 9873261	
200x Battery Holder • SP022618		Magnifying Lens 2.0x • 9873262	

Magnifying Lens 2.5x

- 9873263



Kemppi Tool Bag

- SP010090



ZETA FRESH AIR W201 + PFU 210E

9873830

Offers the same TH3-level breathing protection and auto-darkening welding filter as the W201x PFU 210e, as well as the same comfort and ease-of-use features. This version does not include the built-in automatic LED work lights. For a package with a battery, please use order code P0735.



Technical data

Welding filter type	SA 60Z
ADF view size (mm)	110×60
ADF shade range	8-12
ADF light state	2.5
ADF switching time	0.1 ms
ADF sensors	3
ADF remote control	Yes
ADF classification	V1
Flip-up visor	No
Respirator unit	PFU 210e
Respirator unit air filter	Prefilter, Particle filter Life+, Gas filter Life+ , Odor filter (optional)
Respirator unit belt size (cm)	125 cm
Respirator unit battery type and voltage	SD: Li-ion 14.4 V, 3.2 Ah (46 Wh), HD: Li-ion 14.4 V, 6.4 Ah (92 Wh)
Respirator unit average battery life with filters	SD: 7 h, HD: 9 h
Minimum airflow	160 l/min
Maximum airflow	210 l/min
Standards	EN ISO 16321-1 E, EN ISO 16321-2, EN 12941 TH3, EN 14594, AS/NZS 1716 P2, AS/NZS 1337.1, AS/NZS 1338.1

Accessories, spares and consumables

Gas Filter • SP009934		Face Seal Zeta W • SP024160	
Li-ion Battery HD • SP012021		Breathing Hose Cover Zeta • SP024764	
Battery, Li-ion SD 3.2 Ah • SP012584		Odor Pre-filter 10 pcs • SP027163	
Comfort Band Padding 5 pcs • SP013231		PAPR Backpack System • SP029596	
Particle Filter Life+ 2 pcs • SP015757		Pre-filter 10 pcs • SP9320002	
Visor for Welding Helmets 5 pcs • SP022579		Pre-filter 100 pcs • SP9320002MP	
Magnifying Glass Holder • SP023179		Sweatband 2 pcs • SP9873018	
Inner Protection Plate 113×65x-1mm 5 pcs • SP023221		Zeta W201 Fresh Air Helmet • 9873804	

Headband • SP009023		Flow Meter • SP012492	
Leather Belt • SP010243		Belt Assembly • SP012999	
Neck Band • SP010728		Adjuster Set • SP014349	
Air Hose Sealing Rings, 2 pcs • SP010784		Visor Locks • SP022596	
PFU 210e Powered Air Purifying Respirator • SP011996		Air Hose Holder Rotary • SP022611	
Filter Cover for PFU 210e • SP012095		Breathing Air Hose Zeta • SP024824	
PFU 210e Body • SP012217		Spark Shield • SP9320003	
Battery Charger • SP012426		SA 60Z Welding Filter • SP9873076	

SA 60Z Battery Casing • SP9873077		Magnifying Lens 1.5x • 9873261	
XA 60Z Welding Filter • SP9873078		Magnifying Lens 2.0x • 9873262	
Zeta W201 Helmet Body • SP9873802		Magnifying Lens 2.5x • 9873263	
Magnifying Lens 1.0x • 9873260		Kemppi Tool Bag • SP010090	

ZETA FRESH AIR W201X + PFU 210E

9873831

A complete breathing system that offers face, eye, and respiratory protection while still providing maximum comfort and ease of use. This version includes a powered filter unit for TH3-level breathing protection, a best-in-class auto-darkening welding filter, and built-in automatic LED work lights for added visibility during the inspection. For a package with a battery, please use order code P0736.



Technical data

Welding filter type	SA 60Z
ADF view size (mm)	110×60
ADF shade range	8-12
ADF light state	2.5
ADF switching time	0.1 ms
ADF sensors	3
ADF remote control	Yes
ADF classification	V1
Flip-up visor	No
Respirator unit	PFU 210e
Respirator unit air filter	Prefilter, Particle filter Life+, Gas filter Life+ , Odor filter (optional)
Respirator unit belt size (cm)	125 cm
Respirator unit battery type and voltage	SD: Li-ion 14.4 V, 3.2 Ah (46 Wh), HD: Li-ion 14.4 V, 6.4 Ah (92 Wh)
Respirator unit average battery life with filters	SD: 7 h, HD: 9 h
Minimum airflow	160 l/min
Maximum airflow	210 l/min
Standards	EN ISO 16321-1 E, EN ISO 16321-2, EN 12941 TH3, EN 14594, AS/NZS 1716 P2, AS/NZS 1337.1, AS/NZS 1338.1

Accessories, spares and consumables

Gas Filter • SP009934		Face Seal Zeta W • SP024160	
Li-ion Battery HD • SP012021		Breathing Hose Cover Zeta • SP024764	
Battery, Li-ion SD 3.2 Ah • SP012584		Odor Pre-filter 10 pcs • SP027163	
Comfort Band Padding 5 pcs • SP013231		PAPR Backpack System • SP029596	
Particle Filter Life+ 2 pcs • SP015757		Pre-filter 10 pcs • SP9320002	
Visor for Welding Helmets 5 pcs • SP022579		Pre-filter 100 pcs • SP9320002MP	
Magnifying Glass Holder • SP023179		Sweatband 2 pcs • SP9873018	
Inner Protection Plate 113×65x-1mm 5 pcs • SP023221		Zeta W201x Fresh Air Helmet • 9873805	

Headband • SP009023		Battery Charger • SP012426	
Leather Belt • SP010243		Flow Meter • SP012492	
Work Light Lens Cover Plate Set, 3 sets • SP010526		Belt Assembly • SP012999	
Neck Band • SP010728		Adjuster Set • SP014349	
Air Hose Sealing Rings, 2 pcs • SP010784		Visor Locks • SP022596	
PFU 210e Powered Air Purifying Respirator • SP011996		Air Hose Holder Rotary • SP022611	
Filter Cover for PFU 210e • SP012095		Breathing Air Hose with Cable Zeta • SP024799	
PFU 210e Body • SP012217		Spark Shield • SP9320003	

SA 60Z Welding Filter • SP9873076		Magnifying Lens 1.5x • 9873261	
SA 60Z Battery Casing • SP9873077		Magnifying Lens 2.0x • 9873262	
XA 60Z Welding Filter • SP9873078		Magnifying Lens 2.5x • 9873263	
Zeta W201x Helmet Body • SP9873803		Kemppi Tool Bag • SP010090	
Magnifying Lens 1.0x • 9873260			

ZETA FRESH AIR W201 + RSA 230

9873832

Includes the same full-protection welding helmet as the W201 PFU 210e. This version has a belt-mounted supplied air regulator and does not include the built-in LED work lights.



Technical data

Welding filter type	SA 60Z
ADF view size (mm)	110×60
ADF shade range	8-12
ADF light state	2.5
ADF switching time	0.1 ms
ADF sensors	3
ADF remote control	Yes
ADF classification	V1
Flip-up visor	No
Respirator unit	RSA 230
Respirator unit belt size (cm)	125 cm
Supply pressure hose length	10 ... 30 m
Required supply air pressure	550 ... 600 kPa
Minimum airflow	160 l/min
Maximum airflow	400 l/min
Standards	EN ISO 16321-1 E, EN ISO 16321-2, EN 12941 TH3, EN 14594, AS/NZS 1716 P2, AS/NZS 1337.1, AS/NZS 1338.1

Accessories, spares and consumables

Silencer Set for RSA 230 2 pcs • SP011735		Zeta W201 Fresh Air Helmet • 9873804	
Comfort Band Padding 5 pcs • SP013231		Headband • SP009023	
Visor for Welding Helmets 5 pcs • SP022579		Leather Belt • SP010243	
Magnifying Glass Holder • SP023179		Neck Band • SP010728	
Inner Protection Plate 113×65x-1mm 5 pcs • SP023221		Air Hose Sealing Rings, 2 pcs • SP010784	
Face Seal Zeta W • SP024160		Air Hose Adapter for RSA 230 • SP011227	
Breathing Hose Cover Zeta • SP024764		RSA 230 Supplied Air Regulator • SP011617	
Sweatband 2 pcs • SP9873018		Flow Meter • SP012492	

Supplied Air Regular for RSA 230 • SP012857		SA 60Z Battery Casing • SP9873077	
Belt Assembly • SP012999		XA 60Z Welding Filter • SP9873078	
Adjuster Set • SP014349		Zeta W201 Helmet Body • SP9873802	
Visor Locks • SP022596		Magnifying Lens 1.0x • 9873260	
Air Hose Holder Rotary • SP022611		Magnifying Lens 1.5x • 9873261	
Breathing Air Hose Zeta • SP024824		Magnifying Lens 2.0x • 9873262	
SA 60Z Welding Filter • SP9873076		Magnifying Lens 2.5x • 9873263	

ZETA FRESH AIR W211 + PFU 210E

9873833

A complete breathing system that offers face, eye, and respiratory protection while still providing maximum comfort and ease of use. This version includes a powered filter unit for TH3-level breathing protection and a best-in-class auto-darkening welding filter (ADF) with a DIN shade of up to 14. This version does not include the built-in automatic LED work lights. For a package with a battery, please use order code P0741.



Technical data

Welding filter type	XA 60Z
ADF view size (mm)	110×60
ADF shade range	9-13/14
ADF light state	3
ADF switching time	0.1 ms
ADF sensors	3
ADF remote control	Yes
ADF classification	V1
Flip-up visor	No
Respirator unit	PFU210e
Respirator unit air filter	Prefilter, Particle filter Life+, Gas filter Life+ , Odor filter (optional)
Respirator unit belt size (cm)	125 cm
Respirator unit battery type and voltage	SD: Li-ion 14.4 V, 3.2 Ah (46 Wh), HD: Li-ion 14.4 V, 6.4 Ah (92 Wh)
Respirator unit average battery life with filters	SD: 7 h, HD: 9 h
Minimum airflow	160 l/min
Maximum airflow	210 l/min
Standards	EN ISO 16321-1 E, EN ISO 16321-2, EN 12941 TH3, EN 14594, AS/NZS 1716 P2, AS/NZS 1337.1, AS/NZS 1338.1

Accessories, spares and consumables

Gas Filter • SP009934		Face Seal Zeta W • SP024160	
Li-ion Battery HD • SP012021		Breathing Hose Cover Zeta • SP024764	
Battery, Li-ion SD 3.2 Ah • SP012584		Odor Pre-filter 10 pcs • SP027163	
Comfort Band Padding 5 pcs • SP013231		PAPR Backpack System • SP029596	
Particle Filter Life+ 2 pcs • SP015757		Pre-filter 10 pcs • SP9320002	
Visor for Welding Helmets 5 pcs • SP022579		Pre-filter 100 pcs • SP9320002MP	
Magnifying Glass Holder • SP023179		Sweatband 2 pcs • SP9873018	
Inner Protection Plate 113×65x-1mm 5 pcs • SP023221		Headband • SP009023	

Leather Belt • SP010243		Belt Assembly • SP012999	
Neck Band • SP010728		Adjuster Set • SP014349	
Air Hose Sealing Rings, 2 pcs • SP010784		Visor Locks • SP022596	
PFU 210e Powered Air Purifying Respirator • SP011996		Air Hose Holder Rotary • SP022611	
Filter Cover for PFU 210e • SP012095		Breathing Air Hose Zeta • SP024824	
PFU 210e Body • SP012217		Spark Shield • SP9320003	
Battery Charger • SP012426		SA 60Z Welding Filter • SP9873076	
Flow Meter • SP012492		SA 60Z Battery Casing • SP9873077	

XA 60Z Welding Filter • SP9873078		Magnifying Lens 2.0x • 9873262	
Zeta W201 Helmet Body • SP9873802		Magnifying Lens 2.5x • 9873263	
Magnifying Lens 1.0x • 9873260		Kemppi Tool Bag • SP010090	
Magnifying Lens 1.5x • 9873261			

ZETA FRESH AIR W211X + PFU 210E

9873834

A complete breathing system that offers face, eye, and respiratory protection while still providing maximum comfort and ease of use. This version includes a powered filter unit for TH3-level breathing protection and a best-in-class auto-darkening welding filter (ADF) with a DIN shade of up to 14, and built-in automatic LED work lights for added visibility during the inspection. For a package with a battery, please use order code P0742.



Technical data

Welding filter type	XA 60Z
ADF view size (mm)	110×60
ADF shade range	9-13/14
ADF light state	3
ADF switching time	0.1 ms
ADF sensors	3
ADF remote control	Yes
ADF classification	V1
Flip-up visor	No
Respirator unit	PFU210e
Respirator unit air filter	Prefilter, Particle filter Life+, Gas filter Life+ , Odor filter (optional)
Respirator unit belt size (cm)	125 cm
Respirator unit battery type and voltage	SD: Li-ion 14.4 V, 3.2 Ah (46 Wh), HD: Li-ion 14.4 V, 6.4 Ah (92 Wh)
Respirator unit average battery life with filters	SD: 7 h, HD: 9 h
Minimum airflow	160 l/min
Maximum airflow	210 l/min
Standards	EN ISO 16321-1 E, EN ISO 16321-2, EN 12941 TH3, EN 14594, AS/NZS 1716 P2, AS/NZS 1337.1, AS/NZS 1338.1

Accessories, spares and consumables

Gas Filter • SP009934		Face Seal Zeta W • SP024160	
Li-ion Battery HD • SP012021		Breathing Hose Cover Zeta • SP024764	
Battery, Li-ion SD 3.2 Ah • SP012584		Odor Pre-filter 10 pcs • SP027163	
Comfort Band Padding 5 pcs • SP013231		PAPR Backpack System • SP029596	
Particle Filter Life+ 2 pcs • SP015757		Pre-filter 10 pcs • SP9320002	
Visor for Welding Helmets 5 pcs • SP022579		Pre-filter 100 pcs • SP9320002MP	
Magnifying Glass Holder • SP023179		Sweatband 2 pcs • SP9873018	
Inner Protection Plate 113×65x-1mm 5 pcs • SP023221		Zeta W211x Fresh Air Helmet • 9873811	

Headband • SP009023		Battery Charger • SP012426	
Leather Belt • SP010243		Flow Meter • SP012492	
Work Light Lens Cover Plate Set, 3 sets • SP010526		Belt Assembly • SP012999	
Neck Band • SP010728		Adjuster Set • SP014349	
Air Hose Sealing Rings, 2 pcs • SP010784		Visor Locks • SP022596	
PFU 210e Powered Air Purifying Respirator • SP011996		Air Hose Holder Rotary • SP022611	
Filter Cover for PFU 210e • SP012095		Breathing Air Hose with Cable Zeta • SP024799	
PFU 210e Body • SP012217		Spark Shield • SP9320003	

SA 60Z Welding Filter • SP9873076		Magnifying Lens 1.5x • 9873261	
SA 60Z Battery Casing • SP9873077		Magnifying Lens 2.0x • 9873262	
XA 60Z Welding Filter • SP9873078		Magnifying Lens 2.5x • 9873263	
Zeta W201x Helmet Body • SP9873803		Kemppi Tool Bag • SP010090	
Magnifying Lens 1.0x • 9873260			

ZETA FRESH AIR W211 + RSA 230

9873835

A complete breathing system that offers face, eye, and respiratory protection while still providing maximum comfort and ease of use. This version has a belt-mounted supplied air regulator and a best-in-class auto-darkening welding filter (ADF) with a DIN shade of up to 14. This version does not include the built-in automatic LED work lights.



Technical data

Welding filter type	XA 60Z
ADF view size (mm)	110×60
ADF shade range	9-13/14
ADF light state	3
ADF switching time	0.1 ms
ADF sensors	3
ADF remote control	Yes
ADF classification	V1
Flip-up visor	No
Respirator unit	RSA 230
Respirator unit belt size (cm)	125 cm
Supply pressure hose length	10 ... 30 m
Required supply air pressure	550 ... 600 kPa
Minimum airflow	160 l/min
Maximum airflow	400 l/min
Standards	EN ISO 16321-1 E, EN ISO 16321-2, EN 12941 TH3, EN 14594, AS/NZS 1716 P2, AS/NZS 1337.1, AS/NZS 1338.1

Accessories, spares and consumables

Silencer Set for RSA 230 2 pcs • SP011735		Zeta W211 Fresh Air Helmet • 9873810	
Comfort Band Padding 5 pcs • SP013231		Headband • SP009023	
Visor for Welding Helmets 5 pcs • SP022579		Leather Belt • SP010243	
Magnifying Glass Holder • SP023179		Neck Band • SP010728	
Inner Protection Plate 113×65x-1mm 5 pcs • SP023221		Air Hose Sealing Rings, 2 pcs • SP010784	
Face Seal Zeta W • SP024160		Air Hose Adapter for RSA 230 • SP011227	
Breathing Hose Cover Zeta • SP024764		RSA 230 Supplied Air Regulator • SP011617	
Sweatband 2 pcs • SP9873018		Flow Meter • SP012492	

Supplied Air Regular for RSA 230 • SP012857		SA 60Z Battery Casing • SP9873077	
Belt Assembly • SP012999		XA 60Z Welding Filter • SP9873078	
Adjuster Set • SP014349		Zeta W201 Helmet Body • SP9873802	
Visor Locks • SP022596		Magnifying Lens 1.0x • 9873260	
Air Hose Holder Rotary • SP022611		Magnifying Lens 1.5x • 9873261	
Breathing Air Hose Zeta • SP024824		Magnifying Lens 2.0x • 9873262	
SA 60Z Welding Filter • SP9873076		Magnifying Lens 2.5x • 9873263	

PRODUCT SELECTION TABLE

W200 / W210



W200x / W210x



Zeta W	Zeta W200	Zeta W200x	Zeta W210	Zeta W210x
MIG/MAG	●	●	●	●
MMA	●	●	●	●
TIG	●	●	●	●
Gouging	●	●	●	●
Plasma welding	●	●	●	●
Plasma cutting	●	●	●	●
Helmet weight	517 g	658 g	517 g	658 g
ADF view size (mm)	110×60	110×60	110×60	110×60
ADF shade range	8-12	8-12	9-13/14	9-13/14
LED light	No	Yes	No	Yes

PRODUCT SELECTION TABLE



Zeta Fresh Air W	Zeta Fresh Air W201 + PFU 210e	Zeta Fresh Air W201X + PFU 210e	Zeta Fresh Air W201 + RSA 230	Zeta Fresh Air W211 + PFU 210e	Zeta Fresh Air W211x + PFU 210e	Zeta Fresh Air W211 + RSA 230
MIG/MAG	●	●	●	●	●	●
MMA	●	●	●	●	●	●
TIG	●	●	●	●	●	●
Gouging	●	●	●	●	●	●
Plasma welding	●	●	●	●	●	●
Plasma cutting	●	●	●	●	●	●
Helmet weight	680 g	710 g	680 g	680 g	710 g	680 g
ADF view size (mm)	110×60	110×60	110×60	110×60	110×60	110×60
ADF shade range	8-12	8-12	8-12	9-13/14	9-13/14	9-13/14
Respirator unit	PFU 210e	PFU 210e	RSA 230	PFU210e	PFU210e	RSA 230
LED light	No	Yes	No	No	Yes	No
Respiratory level	TH3	TH3	3B	TH3	TH3	3B
Hard hat protection	No	No	No	No	No	No
Compatible with hearing protection	No	No	No	No	No	No





ZETA GRINDING HELMETS AND RESPIRATORY SYSTEMS

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Zeta G welding masks offer reliable eye and face protection with clear optics and a lightweight, durable design. Zeta Fresh Air G combines the Zeta G helmet with a respirator to deliver clean, filtered airflow—supporting safe, comfortable welding in everyday workshop conditions.

MAIN BENEFITS



Lightweight and well-balanced

A balanced design and lightweight shell reduce neck strain and improves work ergonomics.



Top-of-the-line vision features

Grinding visor with large, a 180° horizontal view.



Integrated LED work lights

The integrated LED work lights give an extra boost for your workday.

KEY FEATURES



Lightweight and well-balanced design

The helmet's construction reduces neck and shoulder strain, improving ergonomics during extended use.



Wide, 180° horizontal visor

Provides an expansive field of view, enhancing visibility during grinding tasks.



Integrated LED work lights in G200x model

Battery-powered LED lights illuminate the work area, with manual or automatic on/off functions, lasting a full working day on a single charge.



Conveniently designed battery pack

The battery pack is located on the neck band for better balance and is easily rechargeable via a USB charger.

ZETA G200

9873820

Zeta G200 grinding helmet offers full face and eye protection for grinding and inspection. A wide visor and lightweight design improve work ergonomics and visibility.



Standards	EN 166 B, AS/NZS 1337.1
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Accessories, spares and consumables

Comfort Band Padding 5 pcs • SP013231		Neck Band • SP010728	
Visor for Grinding Helmets • SP022580		Adjuster Set • SP014349	
Sweatband 2 pcs • SP9873018		Visor Locks • SP022596	
Headband • SP009023		Kemppi Tool Bag • SP010090	

ZETA G200X

9873821

Zeta G200x grinding helmet with integrated LED work lights offers full face and eye protection for grinding and inspection. A wide visor and lightweight design improve work ergonomics and visibility. The integrated LED work lights give an extra boost for the entire workday.



Technical data

LED battery type and voltage	Li-ion 3.65 V, 4 Ah, 14.6 Wh, rechargeable
Standards	EN 166 B, AS/NZS 1337.1

Accessories, spares and consumables

Comfort Band Padding 5 pcs • SP013231		Headband • SP009023	
Visor for Grinding Helmets • SP022580		Work Light Lens Cover Plate Set, 3 sets • SP010526	
Zeta 200x LED Light Battery Unit • SP022617		Neck Band • SP010728	
Sweatband 2 pcs • SP9873018		Adjuster Set • SP014349	

Visor Locks

- SP022596



200x Battery Holder

- SP022618



Kemppi Tool Bag

- SP010090



ZETA FRESH AIR G201 + PFU 210E

9873840

Offers the same TH3-level breathing protection and ease of use as the G201x PFU210e. This version does not include the built-in automatic LED work lights. For a package with a battery, please use order code P0737.



Technical data

Respirator unit	PFU 210e
Respirator unit air filter	Prefilter, Particle filter Life+, Gas filter Life+ , Odor filter (optional)
Respirator unit belt size (cm)	125 cm
Respirator unit battery type and voltage	SD: Li-ion 14.4 V, 3.2 Ah (46 Wh), HD: Li-ion 14.4 V, 6.4 Ah (92 Wh)
Respirator unit average battery life with filters	SD: 7 h, HD: 9 h
Minimum airflow	160 l/min
Maximum airflow	210 l/min
Standards	EN 166 B, EN 12941 TH3, EN 14594 3B, AS/NZS 1716 P2, AS/NZS 1337.1

Accessories, spares and consumables

Gas Filter • SP009934		Li-ion Battery HD • SP012021	
Silencer Set for RSA 230 2 pcs • SP011735		Battery, Li-ion SD 3.2 Ah • SP012584	

Comfort Band Padding 5 pcs • SP013231		Pre-filter 100 pcs • SP9320002MP	
Particle Filter Life+ 2 pcs • SP015757		Sweatband 2 pcs • SP9873018	
Visor for Grinding Helmets • SP022580		Zeta G201 Fresh Air Helmet • 9873824	
Breathing Hose Cover Zeta • SP024764		Headband • SP009023	
Face Seal Zeta G • SP025431		Leather Belt • SP010243	
Odor Pre-filter 10 pcs • SP027163		Neck Band • SP010728	
PAPR Backpack System • SP029596		Air Hose Sealing Rings, 2 pcs • SP010784	
Pre-filter 10 pcs • SP9320002		Air Hose Adapter for RSA 230 • SP011227	

RSA 230 Supplied Air Regulator • SP011617		Adjuster Set • SP014349	
PFU 210e Powered Air Purifying Respirator • SP011996		Visor Locks • SP022596	
Filter Cover for PFU 210e • SP012095		Air Hose Holder Rotary • SP022611	
PFU 210e Body • SP012217		Breathing Air Hose Zeta • SP024824	
Battery Charger • SP012426		Spark Shield • SP9320003	
Flow Meter • SP012492		Kemppi Tool Bag • SP010090	
Supplied Air Regular for RSA 230 • SP012857			
Belt Assembly • SP012999			

ZETA FRESH AIR G201X + PFU 210E

9873841

A complete breathing system that offers face, eye, and respiratory protection while still providing maximum comfort and ease of use. This version includes a powered filter unit for TH3-level breathing protection, a large, easy-to-change visor with a wide field of vision, and built-in automatic LED work lights for added visibility during the inspection. The package doesn't include the battery.



Technical data

Respirator unit	PFU 210e
Respirator unit air filter	Prefilter, Particle filter Life+, Gas filter Life+ , Odor filter (optional)
Respirator unit belt size (cm)	125 cm
Respirator unit battery type and voltage	SD: Li-ion 14.4 V, 3.2 Ah (46 Wh), HD: Li-ion 14.4 V, 6.4 Ah (92 Wh)
Respirator unit average battery life with filters	SD: 7 h, HD: 9 h
Minimum airflow	160 l/min
Maximum airflow	210 l/min
Standards	EN 166 B, EN 12941 TH3, EN 14594 3B, AS/NZS 1716 P2, AS/NZS 1337.1

Accessories, spares and consumables

Gas Filter • SP009934		Li-ion Battery HD • SP012021	
Silencer Set for RSA 230 2 pcs • SP011735		Battery, Li-ion SD 3.2 Ah • SP012584	

Comfort Band Padding 5 pcs • SP013231		Pre-filter 100 pcs • SP9320002MP	
Particle Filter Life+ 2 pcs • SP015757		Sweatband 2 pcs • SP9873018	
Visor for Grinding Helmets • SP022580		Zeta G201x Fresh Air Helmet • 9873825	
Breathing Hose Cover Zeta • SP024764		Headband • SP009023	
Face Seal Zeta G • SP025431		Leather Belt • SP010243	
Odor Pre-filter 10 pcs • SP027163		Neck Band • SP010728	
PAPR Backpack System • SP029596		Air Hose Sealing Rings, 2 pcs • SP010784	
Pre-filter 10 pcs • SP9320002		Air Hose Adapter for RSA 230 • SP011227	

RSA 230 Supplied Air Regulator • SP011617		Adjuster Set • SP014349	
PFU 210e Powered Air Purifying Respirator • SP011996		Visor Locks • SP022596	
Filter Cover for PFU 210e • SP012095		Air Hose Holder Rotary • SP022611	
PFU 210e Body • SP012217		Breathing Air Hose with Cable Zeta • SP024799	
Battery Charger • SP012426		Spark Shield • SP9320003	
Flow Meter • SP012492		Kemppi Tool Bag • SP010090	
Supplied Air Regular for RSA 230 • SP012857			
Belt Assembly • SP012999			

ZETA FRESH AIR G201 + RSA 230

9873842

Comes with the same full-protection grinding shield as the G201 PFU210e. This version has a belt-mounted supplied air regulator and does not include the built-in LED work lights.



Technical data

Respirator unit	RSA 230
Respirator unit belt size (cm)	125 cm
Supply pressure hose length	10 ... 30 m
Required supply air pressure	550 ... 600 kPa
Minimum airflow	160 l/min
Maximum airflow	400 l/min
Standards	EN 166 B, EN 12941 TH3, EN 14594 3B, AS/NZS 1716 P2, AS/NZS 1337.1

Accessories, spares and consumables

Silencer Set for RSA 230 2 pcs

- SP011735



Visor for Grinding Helmets

- SP022580



Comfort Band Padding 5 pcs

- SP013231



Breathing Hose Cover Zeta

- SP024764



Face Seal Zeta G • SP025431		RSA 230 Supplied Air Regulator • SP011617	
Sweatband 2 pcs • SP9873018		Flow Meter • SP012492	
Zeta G201 Fresh Air Helmet • 9873824		Supplied Air Regular for RSA 230 • SP012857	
Headband • SP009023		Belt Assembly • SP012999	
Leather Belt • SP010243		Adjuster Set • SP014349	
Neck Band • SP010728		Visor Locks • SP022596	
Air Hose Sealing Rings, 2 pcs • SP010784		Air Hose Holder Rotary • SP022611	
Air Hose Adapter for RSA 230 • SP011227		Breathing Air Hose Zeta • SP024824	

PRODUCT SELECTION TABLE

G201 + PFU 210e



G201X + PFU 210e

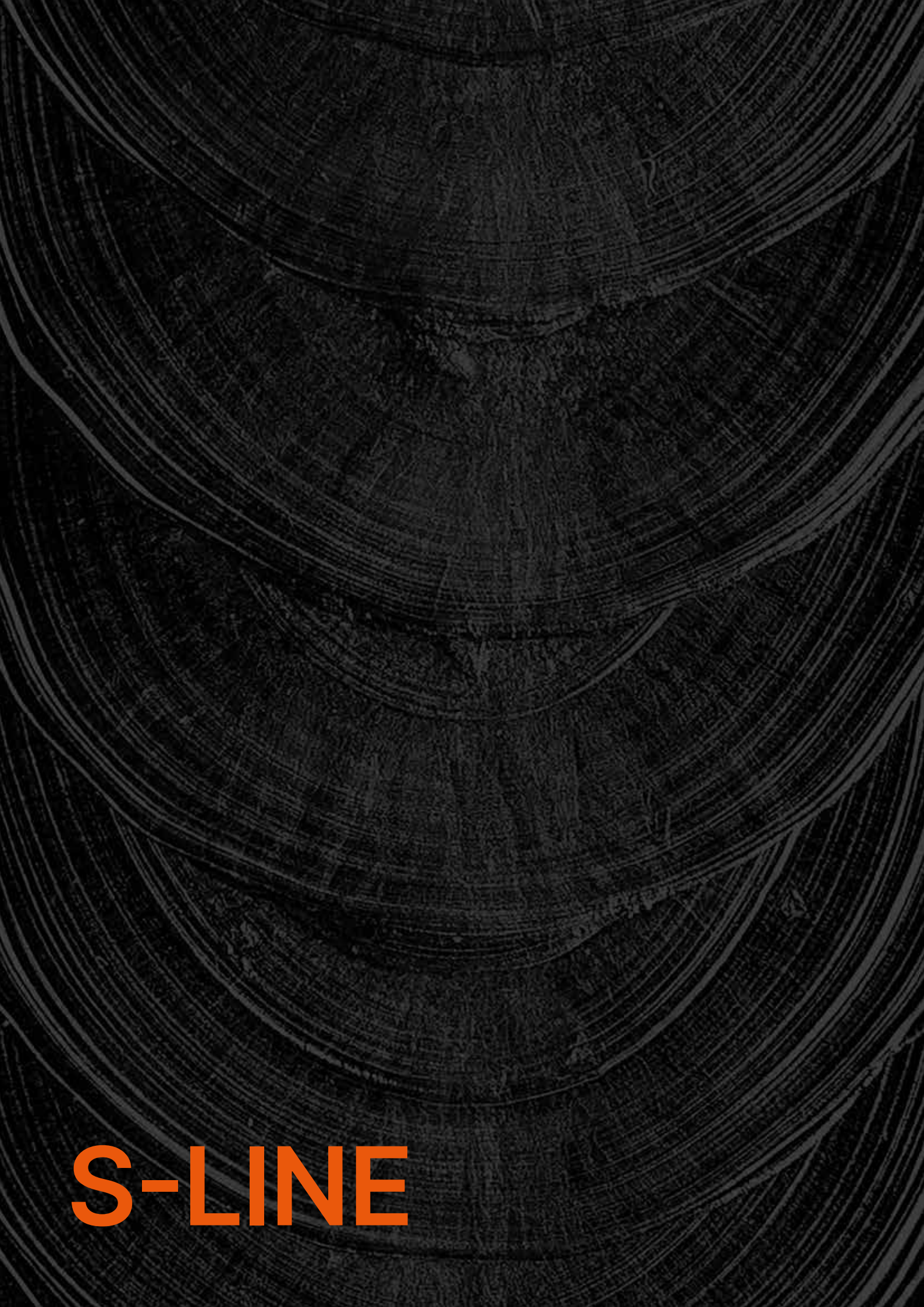


G201 + RSA 230



Zeta Fresh Air G

	Zeta Fresh Air G201 + PFU 210e	Zeta Fresh Air G201X + PFU 210e	Zeta Fresh Air G201 + RSA 230
Helmet weight	515 g	545 g	515 g
Respirator unit	PFU 210e	PFU 210e	RSA 230
LED light	No	Yes	No
Respiratory level	TH3	TH3	TH3



S-LINE



S-LINE AUTO-DARKENING WELDING MASKS

Essential protection, enhanced welding mask performance

The Kemppi S-line of auto-darkening welding masks makes high-quality vision, comfort, and safety technologies more accessible for every welder.

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MAIN BENEFITS



Keep the hood down

S-line welding masks come with 2- or 4-sensor auto-darkening functionality so you can keep the hood down when moving between tasks in your work area.



See clearly

The Vision+ feature creates accurate real-world visuality that makes objects in the work area easier to see for less eye strain while working.



Weld confidently

Stay focused on your work with a safe and easy-to-use welding mask from a trusted brand with decades of experience making welding equipment.

KEY FEATURES



Essential ADF welding mask

Equipped with 2 or 4 sensors, S-line helmets provide auto-darkening filters that adjust the lens shade in response to welding arcs, allowing welders to keep their hoods down between tasks.



Switch modes without pausing

If you are looking for an ADF welding mask with easy external controls, the S1030 is your choice. Control modes or adjust shade levels without raising the hood.



Keep everything in view

The S1040 offers a large viewing area, allowing you to see your work clearly. Use external controls to adjust sensitivity, delay, shade, or mode, keeping the hood down.



Vision+ technology and high optical clarity

The Vision+ feature offers a 1/1/1/1 optical clarity rating, delivering accurate real-world visuality and reducing eye strain by making objects in the work area easier to see.

S1020

9875020

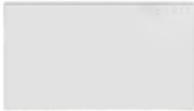
The S1020 is a simple, highly effective, lightweight ADF mask with Vision+. With a 1/1/1/2 rating, four darkening sensors, and a comfortable headband, it offers all-day protection and good vision.



Technical data

Welding filter type	S002
ADF view size (mm)	100×53
ADF shade range	9...13
ADF light state	4
ADF switching time	0.3 ms
ADF sensors	4
ADF remote control	No
ADF classification	1/1/1/2
Flip-up visor	No
Standards	EN 175:1997, ISO 16321-2:2021 AS/NZS 1337.1, AS/NZS 1338.1

Accessories, spares and consumables

Inner Protection Plate 107×58x-1mm • SP75104		S-line Headband • SP75102	
Outer Protection Plate 115×104x-1mm • SP75107		Universal Leather Neck Protector • SP015579	

S1030

9875030

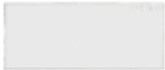
Easy-to-reach controls on the outside of this ADF mask allow you to quickly switch between welding and grinding modes and adjust shade levels without having to raise the hood. Comfortable headband and Vision+ make the S1030 a great choice for everyday use.



Technical data

Welding filter type	S003
ADF view size (mm)	96×39
ADF shade range	9...13
ADF light state	4
ADF switching time	0.3 ms
ADF sensors	2
ADF remote control	Yes
ADF classification	1/1/1/2
Flip-up visor	No
Standards	EN 175:1997, ISO 16321-2:2021 AS/NZS 1337.1, AS/NZS 1338.1

Accessories, spares and consumables

Inner Protection Plate 102×42×1mm • SP75105		S-line Headband • SP75102	
Outer Protection Plate 115×104×1mm • SP75107		Universal Leather Neck Protector • SP015579	

S1040

9875040

A large viewing area and remote controls give you a better view of your workspace and the ability to easily adjust sensitivity, delay, shade, and usage mode with the hood down. The S1040 also features 4 darkening sensors, Vision+, and a 1/1/1/2 rating.



Technical data

Welding filter type	S004
ADF view size (mm)	100×60
ADF shade range	9...13
ADF light state	4
ADF switching time	0.3 ms
ADF sensors	4
ADF remote control	Yes
ADF classification	1/1/1/2
Flip-up visor	No
Standards	EN 175:1997, ISO 16321-2:2021, AS/NZS 1337.1, AS/NZS 1338.1

Accessories, spares and consumables

Inner Protection Plate
100×63.5×1mm
• SP75106



S-line Headband
• SP75102



Outer Protection Plate
115×104×1mm
• SP75107



Universal Leather Neck Protector
• SP015579



S1065

9875065

Designed to perform in tough environments. The TH3-class air filtration system removes 99.8% of particles and dust. The large viewing area offers clarity in all situations (1/1/1/1). The B impact-rated shell provides superb shielding.



Technical data

Welding filter type	S006
ADF view size (mm)	100×60
ADF shade range	9-13
ADF light state	4
ADF switching time	0.1 ms
ADF sensors	4
ADF remote control	No
ADF classification	1/1/1/1
Flip-up visor	No
Respirator unit	9875065
Respirator unit air filter	P R SL; PAPR-P3
Respirator unit belt size (cm)	130 cm
Respirator unit battery type and voltage	Rechargeable Li-ion 4400 mAh
Respirator unit average battery life with filters	1. speed >8h, 2. speed >6h, 3. speed >4h
Minimum airflow	170 l/min
Maximum airflow	230 l/min
Standards	DIN EN 175:1997-08, DIN EN 379:2009-07, AS/NZS 1337.1, AS/NZS 1338.1

Accessories, spares and consumables

Pre-filter 10 pcs • SP75002		S1065 PAPR • SP75000	
Particle Filter 4 pcs • SP75003		Filter Cover • SP75001	
Spark Shield 10 pcs • SP75004		Flow Meter • SP75007	
Li-ion Battery 4.4 Ah • SP75005		Battery Charger • SP75008	
Face Seal S1065 • SP75103		Breathing Air Hose 0.6 m • SP75010	
Inner Protection Plate 106×66×1mm • SP75110		Headband with Air Duct • SP75101	
ADF S006 • 9875061		Battery Holder ADF S006 • SP75112	

Belt and Shoulder Harness

- SP75006



S-line Tool Bag

- SP75009



PRODUCT SELECTION TABLE



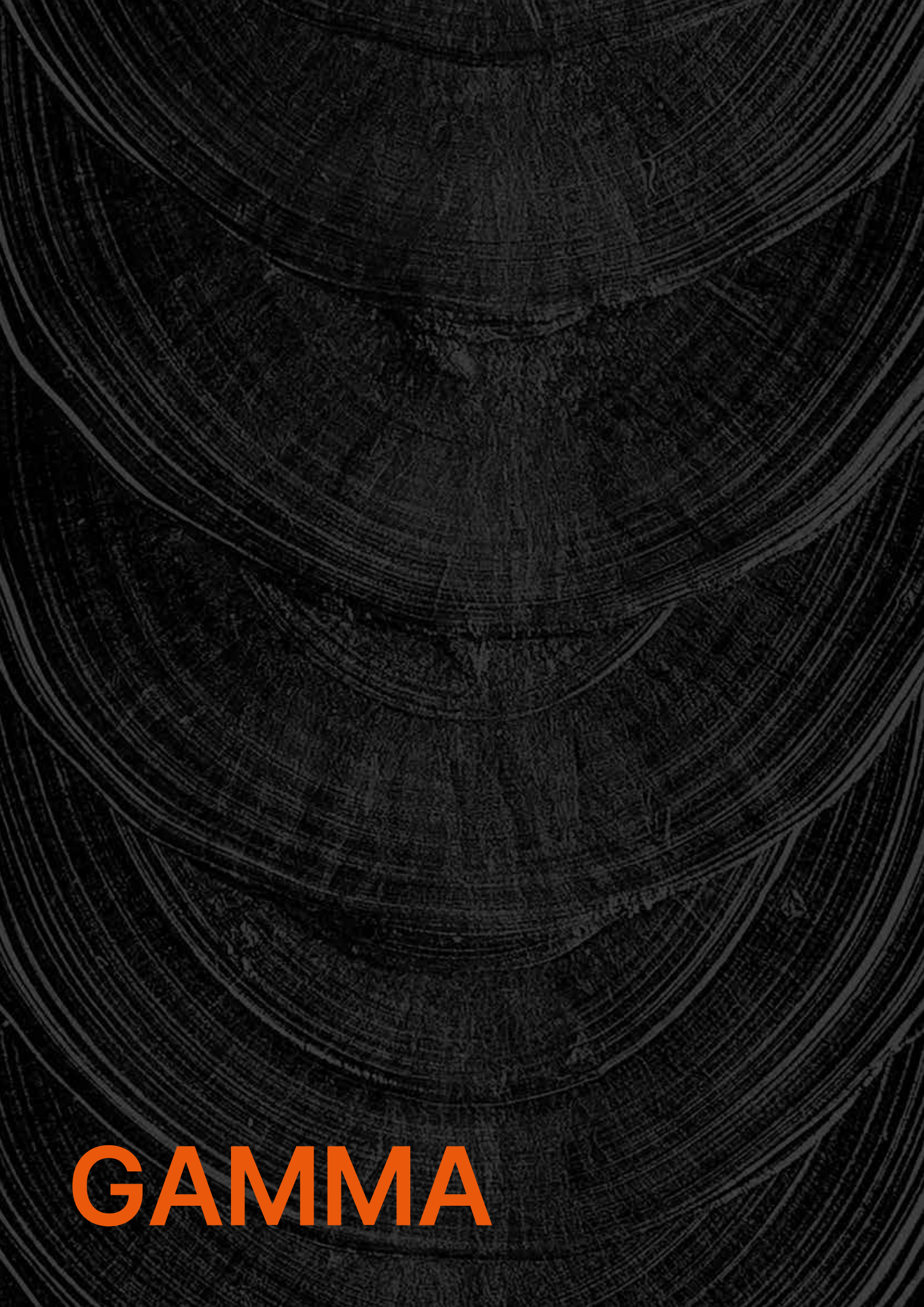
S-line	S1020	S1030	S1040
MIG/MAG	●	●	●
TIG	●	●	●
Plasma welding			●
Helmet weight	485 g	475 g	535 g
ADF view size (mm)	100×53	96×39	100×60
ADF shade range	9...13	9...13	9...13
LED light	No	No	No

PRODUCT SELECTION TABLE



S-line Fresh Air

	S1065
MIG/MAG	●
TIG	●
Helmet weight	800 g
ADF view size (mm)	100×60
ADF shade range	9-13
Respirator unit	9875065
LED light	No
Respiratory level	TH3
Hard hat protection	No
Compatible with hearing protection	No



GAMMA



GAMMA GTH3

Top level personal protection for professional welders and fabricators

Gamma GTH3 respirator models meet the highest EU classification for respiratory performance (TH3) protecting you from 99.8 % of airborne fumes and particulate. Available with battery powered filter units and regulated supplied air models.

Visit website
Scan QR code or
[click here](#)



MAIN BENEFITS



Safety for multiple processes

Designed for all arc welding, cutting, grinding, gouging and inspection processes.



Protection for your lungs

Respirator models meet the highest EU classification protecting you from 99.8 % of airborne fumes and particulate.



Comfort and usability

Models include optimum vision performance and unique usability features including Axis regulation and GapView function.

KEY FEATURES



LED work lights

Gamma GTH3 XFA features 70 lumen LED work lights, reaching new levels of safety and comfort for low light working conditions and powered directly from the rechargeable PAPR battery. Works lights can be switched on and off from the helmet mounted remote control.



Mounted ADF remote control

Inboard mounted ADF remote control for reliability and convenience. Remote control adjustment of the SA 60 or XA 74 automatic welding lenses features three silicon rubber selector switches. The large switches select parameter values up or down and the small switch selects either the parameter type, or a long press activates the work lights on the XFA model.



ComFlex headband

ComFlex headband offers comfort and flexibility for the perfect fit to your individual head shape and preferences. Even distribution of the suspended weight lowers pressure to sensitive areas of the head, minimizing fatigue and headgear related headaches.



GapView feature

GapView switch sets a clear view beneath the welding visor providing a narrow 15 mm gap and clear vision of the working area. Ideal for work piece setting and tacking prior to welding. An excellent feature with passive welding lens models and ADF equipped models, where adjacent welding arcs can trigger nuisance ADF activations.

GAMMA 100A

9873090

Gamma welding shield for working environments where respiratory protection is not needed. Contains the SA 60 ADF lens and all Kemppi comfort features.



Technical data

Welding filter type	SA 60
ADF view size (mm)	102×60
ADF shade range	8/9-13
ADF light state	4
ADF switching time	0.1 ms
ADF sensors	2
ADF remote control	Yes
ADF classification	1/1/1/2
Flip-up visor	Yes
Standards	EN 175 B, EN 166 B, EN 379, AS/NZS 1337.1, AS/NZS 1338.1

Accessories, spares and consumables

Outer Protection Plate for Gamma

- SP008034



Grinding Visor

- SP008040



Grinding Visor, Life+

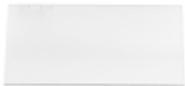
- SP008040HC



Grinding Visor, Yellow

- SP008040Y



Inner Protection Plate 106.5×65.5×1mm • SP012425		Headband • SP009023	
Sweatband 2 pcs • SP9873018		Neck Band • SP010728	
Welding Visor Frame Assembly • SP007996		Work Light Solid Cover Plate Set • SP011026	
Lock for Grinding Visor • SP008114		Side Cover Plate • SP012053	
Visor Knob Set • SP008152		SA 60 Welding Filter • SP012422	
Knob Counter Part • SP008153		Comfort Band Padding 5 pcs • SP013231	
Visor Adjuster Set • SP008157		Kemppi Tool Bag • SP010090	
Welding Visor Positioning Spring • SP008158		Universal Leather Neck Protector • SP015579	

GAMMA GTH3 SFA + RSA 230

9873150

Gamma GTH3 SFA Airline features the automatic welding lens SA 60 ADF. Connected to a certified breathing air source via an airline and belt-mounted regulator RSA 230, Gamma GTH3 Airline models provide an alternative to the battery powered systems.



Technical data

Welding filter type	SA 60
ADF view size (mm)	102×60
ADF shade range	8/9-13
ADF light state	4
ADF switching time	0.1 ms
ADF sensors	2
ADF remote control	Yes
ADF classification	1/1/1/2
Flip-up visor	Yes
Respirator unit	RSA 230
Respirator unit belt size (cm)	125 cm
Supply pressure hose length	10 ... 30 m
Required supply air pressure	550 ... 600 kPa
Minimum airflow	160 l/min
Maximum airflow	400 l/min
Standards	EN 175 B, EN 166 B, EN 397, EN 12941 TH3, EN 14594 3B, AS/NZS 1716 P2, AS/NZS 1337.1, AS/NZS 1338.1

Accessories, spares and consumables

Outer Protection Plate for Gamma • SP008034		Sweatband 2 pcs • SP9873018	
Grinding Visor • SP008040		Welding Visor Frame Assembly • SP007996	
Grinding Visor, Life+ • SP008040HC		Lock for Grinding Visor • SP008114	
Grinding Visor, Yellow • SP008040Y		Visor Knob Set • SP008152	
Face Seal for Gamma • SP009794		Knob Counter Part • SP008153	
Hose Protection Cover • SP010788		Visor Adjuster Set • SP008157	
Silencer Set for RSA 230 2 pcs • SP011735		Welding Visor Positioning Spring • SP008158	
Inner Protection Plate 106.5×65.5×1mm • SP012425		Headband • SP009023	

Leather Belt • SP010243		Remote Control for SA 60 and XA 74 • SP012097	
Air Duct Nozzle • SP010639		Air Duct for PFA and SFA • SP012157	
Neck Band • SP010728		Air Hose • SP012253	
Air Hose Sealing Rings, 2 pcs • SP010784		SA 60 Welding Filter • SP012422	
Work Light Solid Cover Plate Set • SP011026		Supplied Air Regular for RSA 230 • SP012857	
Air Hose Adapter for RSA 230 • SP011227		Comfort Band Padding 5 pcs • SP013231	
RSA 230 Supplied Air Regulator • SP011617		Gamma GTH3 SFA Welding Helmet • SP013232	
Side Cover Plate • SP012053		Kemppi Tool Bag • SP010090	

GAMMA GTH3 SFA + PFU 210E

9873601

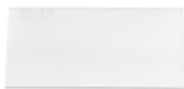
Premium TH3 class respiratory protection, plus all the safety and comfort offered throughout the Gamma GTH3 product range. Gamma GTH3 SFA models include the PFU 210e battery-powered filter unit and the automatic welding lens SA 60. For a package with a battery, please use order code P0716.



Technical data

Welding filter type	SA 60
ADF view size (mm)	102×60
ADF shade range	8/9-13
ADF light state	4
ADF switching time	0.1 ms
ADF sensors	2
ADF remote control	Yes
ADF classification	1/1/1/2
Flip-up visor	Yes
Respirator unit	PFU 210e
Respirator unit air filter	Prefilter, Particle filter Life+, Gas filter Life+ , Odor filter (optional)
Respirator unit belt size (cm)	125 cm
Respirator unit battery type and voltage	SD: Li-ion 14.4 V, 3.2 Ah (46 Wh), HD: Li-ion 14.4 V, 6.4 Ah (92 Wh)
Respirator unit average battery life with filters	SD: 7 h, HD: 9 h
Minimum airflow	160 l/min
Maximum airflow	210 l/min
Standards	EN 175 B, EN 166 B, EN 397, EN 12941 TH3, EN 14594 3B, AS/NZS 1716 P2, AS/NZS 1337.1, AS/NZS 1338.1

Accessories, spares and consumables

Outer Protection Plate for Gamma • SP008034		Inner Protection Plate 106.5×65.5×1mm • SP012425	
Grinding Visor • SP008040		Battery, Li-ion SD 3.2 Ah • SP012584	
Grinding Visor, Life+ • SP008040HC		Particle Filter Life+ 2 pcs • SP015757	
Grinding Visor, Yellow • SP008040Y		Odor Pre-filter 10 pcs • SP027163	
Face Seal for Gamma • SP009794		Pre-filter 10 pcs • SP9320002	
Gas Filter • SP009934		Pre-filter 100 pcs • SP9320002MP	
Hose Protection Cover • SP010788		Sweatband 2 pcs • SP9873018	
Li-ion Battery HD • SP012021		Welding Visor Frame Assembly • SP007996	

Lock for Grinding Visor • SP008114		Neck Band • SP010728	
Visor Knob Set • SP008152		Air Hose Sealing Rings, 2 pcs • SP010784	
Knob Counter Part • SP008153		Work Light Solid Cover Plate Set • SP011026	
Visor Adjuster Set • SP008157		PFU 210e Powered Air Purifying Respirator • SP011996	
Welding Visor Positioning Spring • SP008158		Side Cover Plate • SP012053	
Headband • SP009023		Filter Cover for PFU 210e • SP012095	
Leather Belt • SP010243		Remote Control for SA 60 and XA 74 • SP012097	
Air Duct Nozzle • SP010639		Air Duct for PFA and SFA • SP012157	

PFU 210e Body • SP012217		Gamma GTH3 SFA Welding Helmet • SP013232	
Air Hose • SP012253		Spark Shield • SP9320003	
SA 60 Welding Filter • SP012422		Kemppi Tool Bag • SP010090	
Battery Charger • SP012426		Universal Leather Neck Protector • SP015579	
Flow Meter • SP012492		Extended Head Protector • SP020921	
Belt Assembly • SP012999			
Comfort Band Padding 5 pcs • SP013231			

GAMMA GTH3 XFA + PFU 210E

9873602

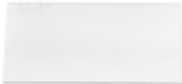
Gamma GTH3 XFA offers top-class safety and comfort with total freedom of movement. Even in the toughest working environments, it is the ultimate welder's respirator, featuring class-leading LIFE+ Color ADF, integrated LED work lights, fastcharge Li-ion battery packs, and all Gamma comfort features. For a package with a battery, please use order code P0721.



Technical data

Welding filter type	XA 74
ADF view size (mm)	102×74
ADF shade range	8/9-13/14-15
ADF light state	4
ADF switching time	0.1 ms
ADF sensors	2
ADF remote control	Yes
ADF classification	1/1/1/2
Flip-up visor	Yes
Respirator unit	PFU 210e
Respirator unit air filter	Prefilter, Particle filter Life+, Gas filter Life+ , Odor filter (optional)
Respirator unit belt size (cm)	125 cm
Respirator unit battery type and voltage	SD: Li-ion 14.4 V, 3.2 Ah (46 Wh), HD: Li-ion 14.4 V, 6.4 Ah (92 Wh)
Respirator unit average battery life with filters	SD: 7 h, HD: 9 h
Minimum airflow	160 l/min
Maximum airflow	210 l/min
Standards	EN 175 B, EN 166 B, EN 397, EN 12941 TH3, EN 14594 3B, AS/NZS 1716 P2, AS/NZS 1337.1, AS/NZS 1338.1

Accessories, spares and consumables

Outer Protection Plate for Gamma • SP008034		Li-ion Battery HD • SP012021	
Grinding Visor • SP008040		Inner Protection Plate 106.5×75×1mm • SP012424	
Grinding Visor, Life+ • SP008040HC		Battery, Li-ion SD 3.2 Ah • SP012584	
Grinding Visor, Yellow • SP008040Y		Particle Filter Life+ 2 pcs • SP015757	
Face Seal for Gamma • SP009794		Odor Pre-filter 10 pcs • SP027163	
Gas Filter • SP009934		Pre-filter 10 pcs • SP9320002	
Hose Protection Cover • SP010788		Pre-filter 100 pcs • SP9320002MP	

Sweatband 2 pcs • SP9873018		Air Duct for XFA • SP009349	
Welding Visor Frame Assembly • SP007996		Leather Belt • SP010243	
Lock for Grinding Visor • SP008114		Work Light Lens Cover Plate Set, 3 sets • SP010526	
Visor Knob Set • SP008152		Air Duct Nozzle • SP010639	
Knob Counter Part • SP008153		Neck Band • SP010728	
Visor Adjuster Set • SP008157		Air Hose Sealing Rings, 2 pcs • SP010784	
Welding Visor Positioning Spring • SP008158		Terminal Wire Set • SP011964	
Headband • SP009023		PFU 210e Powered Air Purifying Respirator • SP011996	

Side Cover Plate • SP012053		Belt Assembly • SP012999	
Filter Cover for PFU 210e • SP012095		Comfort Band Padding 5 pcs • SP013231	
Remote Control for SA 60 and XA 74 • SP012097		Spark Shield • SP9320003	
Air Hose • SP012148		Kemppi Tool Bag • SP010090	
PFU 210e Body • SP012217		Universal Leather Neck Protector • SP015579	
XA 74 Welding Filter • SP012421		Extended Head Protector • SP020921	
Battery Charger • SP012426			
Flow Meter • SP012492			

PRODUCT SELECTION TABLE

GTH3 SFA + RSA 230



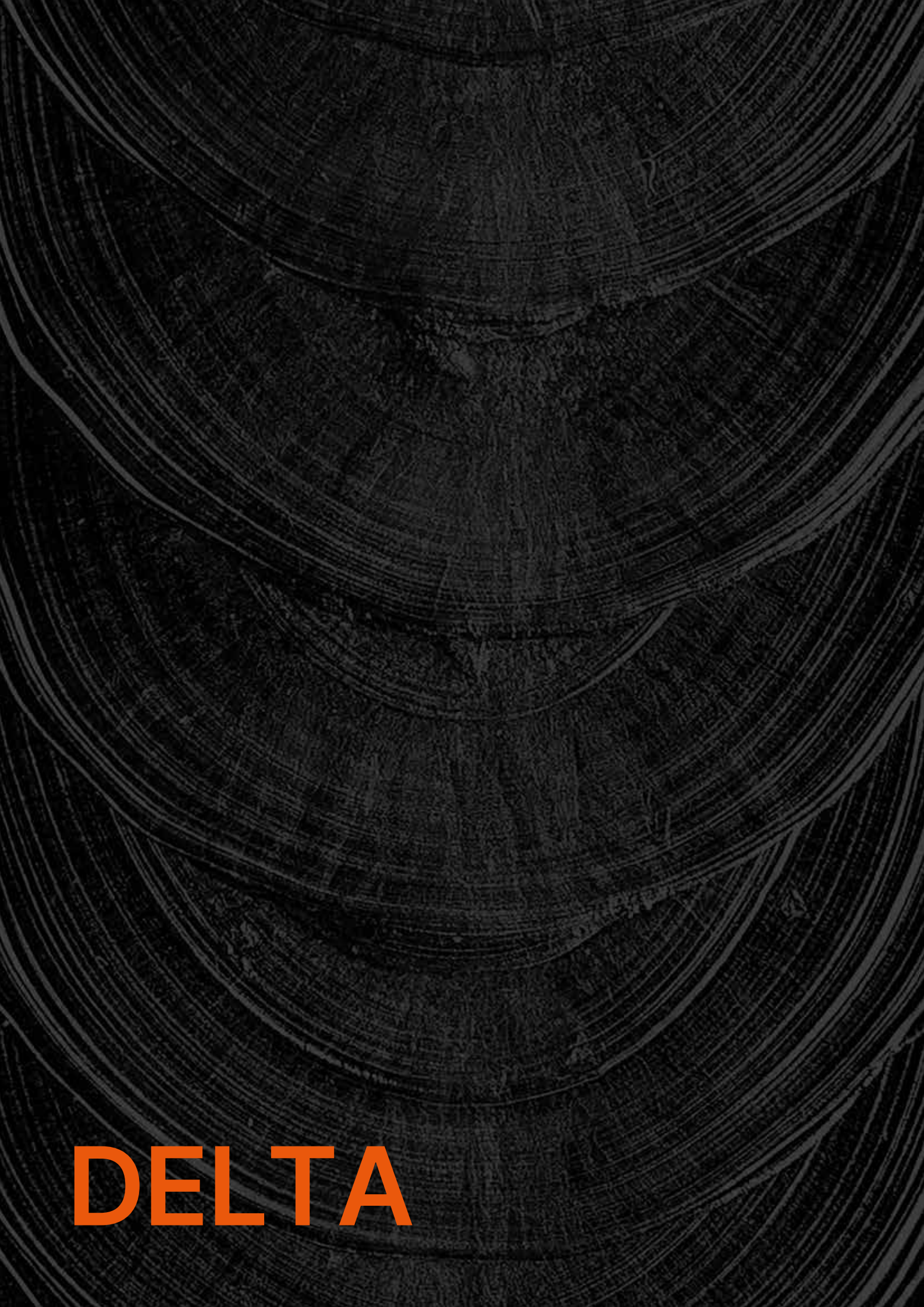
GTH3 SFA + PFU 210e



GTH3 XFA + PFU 210e



Gamma GTH3	Gamma GTH3 SFA + RSA 230	Gamma GTH3 SFA + PFU 210e	Gamma GTH3 XFA + PFU 210e
MIG/MAG	●	●	●
MMA	●	●	●
Gouging	●	●	●
Plasma welding	●	●	●
Plasma cutting	●	●	●
Helmet weight	1000 g	1000 g	1100 g
ADF view size (mm)	102×60	102×60	102×74
ADF shade range	8/9-13	8/9-13	8/9-13/14-15
Respirator unit	RSA 230	PFU 210e	PFU 210e
LED light	No	No	Yes
Respiratory level	TH3	TH3	TH3
Hard hat protection	No	No	No
Compatible with hearing protection	No	No	No



DELTA



DELTA FRESH AIR

Welding and respiratory protection in hard hat work areas

Delta models provide head and respiratory protection for welding and fabrication personnel working in extreme conditions, such as shipbuilding, heavy fabrication, mining and construction sites.

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Scan QR code or
[click here](#)



MAIN BENEFITS



Maximum protection

Integrated head, face and respiratory protection for welders and fabricators.



Exceptional vision

The intelligent, separately hinged welding visor offers exceptional vision experience.



Durable and certified

The system meets hard-hat and welding standards (e.g., EN 397 for the helmet, EN 175 B for face shield) and is designed for heavy fabrication, shipyards, mining.

KEY FEATURES



Integrated hard hat design

The Delta Fresh Air unit combines a hard hat + welding visor + powered fresh air respirator in one system, making it suited for even the most extreme environments.



Auto-darkening welding filter

The Delta range includes auto-darkening lenses with different shade ranges and large view-areas suitable for welding in tough conditions.



Compatibility with ear defenders

Designed to accommodate high-quality ear defenders, the helmet allows for seamless integration of hearing protection, enhancing overall safety without sacrificing comfort.



High-quality welding visor

The large, clear welding visor provides excellent optical clarity and a wide field of view, facilitating precise welding tasks and reducing eye strain.

DELTA 90 SFA + FA FLOW CONTROL

9873310

Delta 90 SFA welding helmet, auto-darkening welding filter SA 60B, FA Flow Control unit, air hose, Li-ion battery and charger, flow meter, and comfort belt.



Technical data

Welding filter type	SA 60B
ADF view size (mm)	100×60
ADF shade range	9-13
ADF light state	3.5
ADF switching time	0.1 ms
ADF sensors	3
ADF remote control	No
ADF classification	V1
Flip-up visor	Yes
Respirator unit	FA Flow Control
Respirator unit belt size (cm)	150 cm
Respirator unit battery type and voltage	FA Li-ion battery, 4.4 Ah
Respirator unit average battery life with filters	6...7 h
Minimum airflow	170 l/min
Maximum airflow	240 l/min
Standards	EN 175 B, EN 166 B, EN 397, EN 12941 TH2, AS/NZS 1716 P1, AS/NZS 1337.1, AS/NZS 1338.1

Accessories, spares and consumables

Comfort Band Padding 5 pcs

- SP013231



Pre-filter for FA Flow Control

- W007492



Odor Filter for FA Flow Control W007494		Li-ion Battery Charger W013564	
Face Seal for Delta W007516		Magnifying Lens 1.0x 9873260	
Delta SFA Welding Helmet with- out ADF SP9873066		Magnifying Lens 1.5x 9873261	
Fixing Screws W007518		Magnifying Lens 2.0x 9873262	
Welding Visor for Delta FA W007522		Magnifying Lens 2.5x 9873263	
ADF Fixing Screws W007570		Kemppi Tool Bag SP010090	
Heavy-duty Comfort Belt W007789		Universal Leather Neck Protector SP015579	
Welding Visor Delta W009234			

DELTA 90 SFA + FA PRESSURE FLOW CONTROL

9873311

Delta 90 SFA welding helmet, auto-darkening welding filter SA 60B, FA Flow Control unit, air hose, Li-ion battery and charger, flow meter, and comfort belt.



Technical data

Welding filter type	SA 60B ADF
ADF light state	Shade 3.5
ADF switching time	0.1 ms
ADF remote control	No
Flip-up visor	Yes
Respirator unit	FA Pressure Flow Control
Respirator unit belt size (cm)	150 cm
Required supply air pressure	300 ... 1000 kPa
Minimum airflow	170 l/min
Maximum airflow	400 l/min
Standards	EN 166, EN 175, EN 14594, EN 379, EN 397

Accessories, spares and consumables

Comfort Band Padding 5 pcs • SP013231		Face Seal for Delta • W007516	
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Delta SFA Welding Helmet with- out ADF • SP9873066		Magnifying Lens 1.0x • 9873260	
Silencer for FA Pressure Flow Control • W007498		Magnifying Lens 1.5x • 9873261	
Filter for FA Pressure Conditioner • W007505		Magnifying Lens 2.0x • 9873262	
Fixing Screws • W007518		Magnifying Lens 2.5x • 9873263	
Welding Visor for Delta FA • W007522		Kempfi Tool Bag • SP010090	
ADF Fixing Screws • W007570		Universal Leather Neck Protector • SP015579	
Welding Visor Delta • W009234			

DELTA+ 90 XFA + FA FLOW CONTROL

9873320

Delta+ 90 XFA welding helmet, auto-darkening welding filter XA 47, air hose, FA Flow Control unit, Li-ion battery and charger, flow meter, comfort belt.



Technical data

Welding filter type	XA 47
ADF view size (mm)	97×47
ADF shade range	9-13/14-15
ADF light state	4
ADF switching time	0.1 ms
ADF sensors	2
ADF remote control	No
ADF classification	1/1/1/2
Flip-up visor	Yes
Respirator unit	FA Flow Control
Respirator unit belt size (cm)	150 cm
Respirator unit battery type and voltage	FA Li-ion battery, 4.4 Ah
Respirator unit average battery life with filters	6...7 h
Minimum airflow	170 l/min
Maximum airflow	240 l/min
Standards	EN 175 B, EN 166 B, EN 397, EN 12941 TH2, AS/NZS 1716 P1, AS/NZS 1337.1, AS/NZS 1338.1

Accessories, spares and consumables

Comfort Band Padding 5 pcs • SP013231		Face Seal for Delta • W007516	
Sweatband Delta+ • SP9873013		Fixing Screws • W007518	
Pre-filter for FA Flow Control • W007492		Welding Visor for Delta FA • W007522	
Odor Filter for FA Flow Control • W007494		ADF Fixing Screws • W007570	
Protection Plate 121×106mm • W007520		Heavy-duty Comfort Belt • W007789	
Grinding Visor for Delta Helmets • W009233		Welding Visor Delta • W009234	
Delta+ 90 XFA Welding Helmet without ADF • SP9873069		Li-ion Battery Charger • W013564	

Magnifying Lens 1.0x • 9873260		Magnifying Lens 2.5x • 9873263	
Magnifying Lens 1.5x • 9873261		Kemppi Tool Bag • SP010090	
Magnifying Lens 2.0x • 9873262		Universal Leather Neck Protector • SP015579	

DELTA+ 90 XFA + FA PRESSURE FLOW

9873321

Delta+ 90 XFA welding helmet, auto-darkening welding filter XA 47, FA Pressure Flow Control unit, flow meter, belt for FA Pressure Flow Control, grinding visor.



Technical data

Welding filter type	XA 47
ADF view size (mm)	97×47
ADF shade range	9-13/14-15
ADF light state	4
ADF switching time	0.1 ms
ADF sensors	2
ADF remote control	No
ADF classification	1/1/1/2
Flip-up visor	Yes
Respirator unit	FA Pressure Flow Control
Respirator unit belt size (cm)	150 cm
Required supply air pressure	300 ... 1000 kPa
Minimum airflow	170 l/min
Maximum airflow	400 l/min
Standards	EN 175 B, EN 166 B, EN 397, EN 14594 2A, AS/NZS 1716 P1, AS/NZS 1337.1, AS/NZS 1338.1

Accessories, spares and consumables

Comfort Band Padding 5 pcs • SP013231		Fixing Screws • W007518	
Sweatband Delta+ • SP9873013		Welding Visor for Delta FA • W007522	
Protection Plate 121×106mm • W007520		ADF Fixing Screws • W007570	
Grinding Visor for Delta Helmets • W009233		Welding Visor Delta • W009234	
Delta+ 90 XFA Welding Helmet without ADF • SP9873069		Magnifying Lens 1.0x • 9873260	
Silencer for FA Pressure Flow Control • W007498		Magnifying Lens 1.5x • 9873261	
Filter for FA Pressure Conditioner • W007505		Magnifying Lens 2.0x • 9873262	
Face Seal for Delta • W007516		Magnifying Lens 2.5x • 9873263	

Kemppi Tool Bag

- SP010090



Universal Leather Neck Protector

- SP015579



PRODUCT SELECTION TABLE

Delta 90 SFA + FA
Flow Control



Delta 90 SFA + FA
Pressure Flow Control



Delta+ 90 XFA + FA
Pressure Flow Control



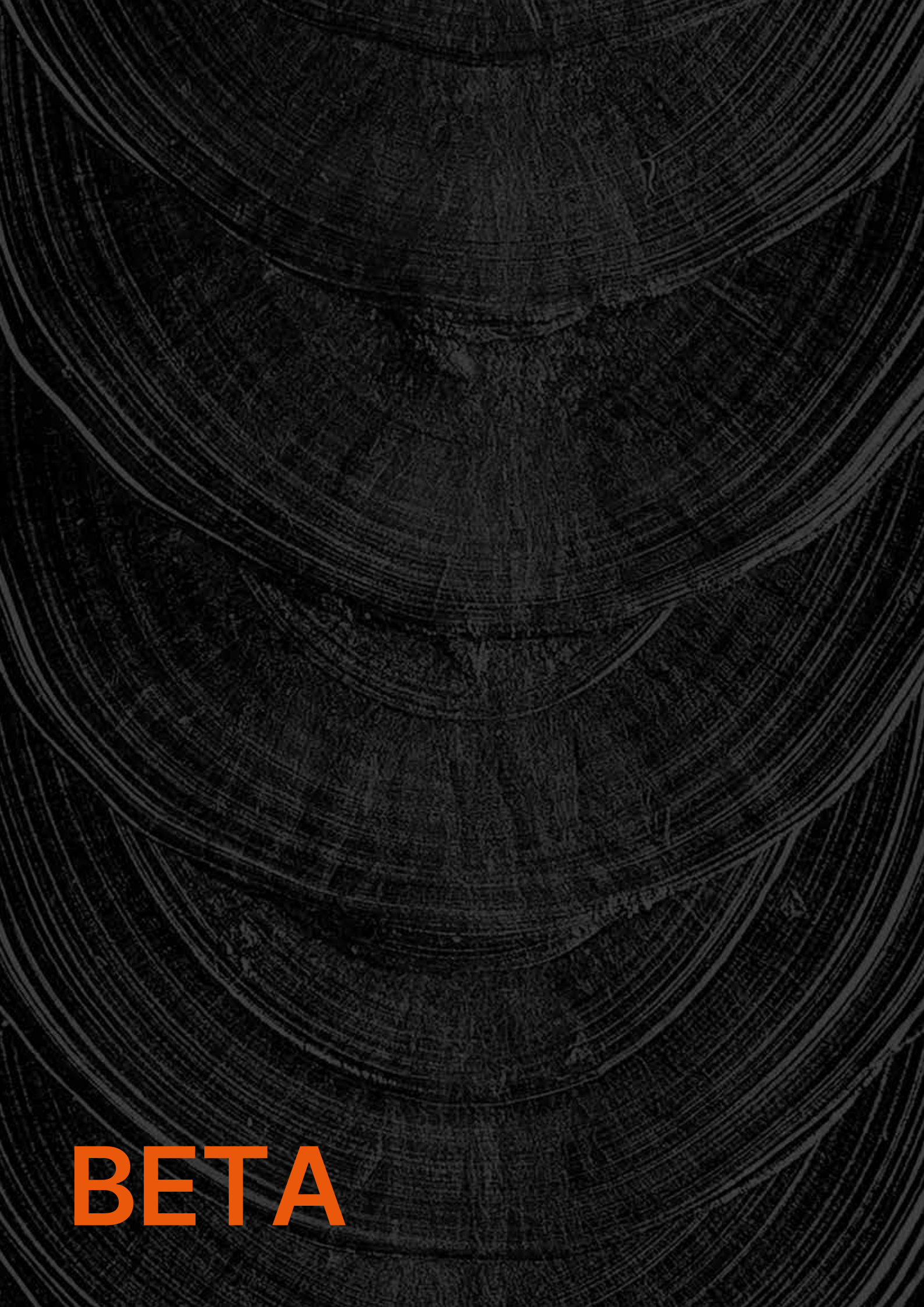
Delta+ 90 XFA + FA
Pressure Flow



Delta Fresh Air

	Delta 90 SFA + FA Flow Control	Delta 90 SFA + FA Pressure Flow Control	Delta+ 90 XFA + FA Flow Control	Delta+ 90 XFA + FA Pressure Flow
MIG/MAG	●	●	●	●
MMA	●	●	●	●
TIG	●	●		
Gouging	●	●	●	●
Plasma welding	●	●	●	●
Plasma cutting	●	●	●	●
Helmet weight	950 g		1145 g	1145 g
ADF view size (mm)	100×60		97×47	97×47
ADF shade range	9-13		9-13/14-15	9-13/14-15
Respirator unit	FA Flow Control	FA Pressure Flow Control	FA Flow Control	FA Pressure Flow Control
LED light	No	No	No	No
Respiratory level	TH2		TH2	TH2
Hard hat protection	Yes	Yes	Yes	Yes
Compatible with hearing protec- tion	Yes	Yes	Yes	Yes





BETA



BETA HELMETS, RESPIRATORY SYSTEMS, AND SAFETY HELMETS

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Beta welding helmets combine reliable protection, comfort, and visibility, with options for powered respiratory protection and integrated industrial safety helmets.

MAIN BENEFITS



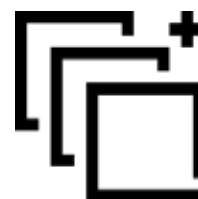
Extra protection and comfort

Beta e series welding helmets offer high levels of personal protection featuring deep cut shell designs, which ensure additional face and neck protection.



Clean and safe breathing air

Beta Fresh Air's highly efficient respiratory filters block no less than 98% of the airborne particles.



Work site safety improved

Beta e SH provides full-time face and hearing protection for welding, grinding, tacking and inspection.

KEY FEATURES



Versatile Protection

Provides premium protection for welding, tacking, cutting, grinding, and inspection processes.



Lightweight and comfortable design

The helmet is lightweight, offering comfort for extended periods of use, and features a comfort headband for a secure fit.



Passive or auto-darkening filter (ADF) options with a large viewing area

Available with either a passive lens or an auto-darkening filter (ADF). The ADF variant offers a viewing area of 60 cm² with shade adjustments from 3.5 to 13, providing flexibility for different welding processes.



Flip-up lens cassette with GapView position

The lens cassette can be flipped up to three positions (fully closed, fully open, and GapView), enabling tasks like tack welding, inspection, or switching quickly between modes.

BETA E90A

9873023

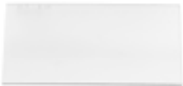
Beta e90A welding helmet with auto-darkening welding filter SA 60B offers reliable protection for the eyes, face and neck in basic welding and fabrication. The model is equipped with a lightweight but strong shell construction. Beta e90A welding mask also features a comfortable headband, GapView flip lens function and magnifying lens frame.



Technical data

Welding filter type	SA 60B
ADF view size (mm)	100×60
ADF shade range	9-13
ADF light state	3.5
ADF switching time	0.1 ms
ADF sensors	3
ADF remote control	No
ADF classification	V1
Flip-up visor	Yes
Standards	EN 175 B, EN 166 B, EN 379, AS/NZS 1337.1, AS/NZS 1338.1

Accessories, spares and consumables

Inner Protection Plate 106.5×65.5×1mm • SP012425		Sweatband 2 pcs • SP9873018	
Comfort Band Padding 5 pcs • SP013231		Protection Plate 90×110×1.0mm 10 pcs • SP9873253	

Protection Plate 90×110×1.0mm 500 pcs • SP9873253A		Hatch Set Beta e90 • SP015664	
Protection Plate 90×110×1.0mm 1000 pcs • SP9873253B		Beta e90 Welding Helmet with- out ADF • SP9873024	
Safety Plate 90×110×1.5mm 10 pcs • SP9873254		SA 60B Welding Filter • SP9873064	
Safety Plate 90×110×1.5mm 500 pcs • SP9873254A		Magnifying Lens 1.0x • 9873260	
Safety Plate 90×110×1.5mm 1000 pcs • SP9873254B		Magnifying Lens 1.5x • 9873261	
Headband • SP009023		Magnifying Lens 2.0x • 9873262	
Neck Band • SP010728		Magnifying Lens 2.5x • 9873263	
Adjuster Set • SP014349		Kemppi Tool Bag • SP010090	

Leather Welding Bib

- SP015177



Universal Leather Neck Protector

- SP015579



BETA E90X

9873024

Beta e90X welding helmet with auto-darkening welding filter XA 47 offers reliable protection for the eyes, face and neck in basic welding and fabrication. The model is equipped with a lightweight but strong shell construction. Beta e90X welding mask also features a comfortable headband, GapView flip lens function and magnifying lens frame.



Technical data

Welding filter type	XA 47
ADF view size (mm)	97×47
ADF shade range	9-13/14-15
ADF light state	4
ADF switching time	0.1 ms
ADF sensors	2
ADF remote control	No
ADF classification	1/1/1/2
Flip-up visor	Yes
Standards	EN 175 B, EN 166 B, EN 379, AS/NZS 1337.1, AS/NZS 1338.1

Accessories, spares and consumables

Inner Protection Plate 104×54x-1mm • SP012952		Sweatband 2 pcs • SP9873018	
Comfort Band Padding 5 pcs • SP013231		Protection Plate 90×110×1.0mm 10 pcs • SP9873253	

Protection Plate 90×110×1.0mm 500 pcs • SP9873253A		Hatch Set Beta e90 • SP015664	
Protection Plate 90×110×1.0mm 1000 pcs • SP9873253B		Beta e90 Welding Helmet with- out ADF • SP9873024	
Safety Plate 90×110×1.5mm 10 pcs • SP9873254		XA 47 Welding Filter • SP9873063	
Safety Plate 90×110×1.5mm 500 pcs • SP9873254A		Magnifying Lens 1.0x • 9873260	
Safety Plate 90×110×1.5mm 1000 pcs • SP9873254B		Magnifying Lens 1.5x • 9873261	
Headband • SP009023		Magnifying Lens 2.0x • 9873262	
Neck Band • SP010728		Magnifying Lens 2.5x • 9873263	
Adjuster Set • SP014349		Kemppi Tool Bag • SP010090	

Leather Welding Bib

- SP015177



Universal Leather Neck Protector

- SP015579



BETA E90P

9873022

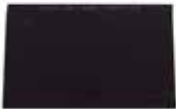
Beta e90P welding helmet with a passive welding filter offers reliable protection for the eyes, face and neck in basic welding and fabrication. The model is equipped with a lightweight but strong shell construction. Beta e90P welding mask also features a comfortable headband, GapView flip lens function and magnifying lens frame.



Technical data

Welding filter type	Passive
Flip-up visor	Yes
Standards	EN 175 B, EN 166 B, EN 169, AS/NZS 1337.1, AS/NZS 1338.1

Accessories, spares and consumables

Welding Glass DIN 8 90×110 • 9873241		Welding Glass DIN 11 90×110 • 9873244	
Welding Glass DIN 9 90×110 • 9873242		Welding Glass DIN 90×110 • 9873245	
Welding Glass DIN 10 90×110 • 9873243		Welding Glass DIN 13 90×110 • 9873246	

Comfort Band Padding 5 pcs • SP013231		Headband • SP009023	
Sweatband 2 pcs • SP9873018		Neck Band • SP010728	
Protection Plate 90×110×1.0mm 10 pcs • SP9873253		Adjuster Set • SP014349	
Protection Plate 90×110×1.0mm 500 pcs • SP9873253A		Hatch Set Beta e90 • SP015664	
Protection Plate 90×110×1.0mm 1000 pcs • SP9873253B		Filter Retaining Spring 90 10 pcs • SP3149850	
Safety Plate 90×110×1.5mm 10 pcs • SP9873254		Beta e90 Welding Helmet with- out ADF • SP9873024	
Safety Plate 90×110×1.5mm 500 pcs • SP9873254A		Magnifying Lens 1.0x • 9873260	
Safety Plate 90×110×1.5mm 1000 pcs • SP9873254B		Magnifying Lens 1.5x • 9873261	

Magnifying Lens 2.0x • 9873262		Leather Welding Bib • SP015177	
Magnifying Lens 2.5x • 9873263		Universal Leather Neck Protector • SP015579	
Kemppi Tool Bag • SP010090			

BETA E90 SFA + PFU 210E

9873604

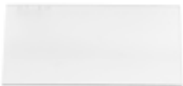
TH2-rated PAPR packages feature solutions for both particle and gas filtration. Package contains Beta e90 SFA welding helmet, auto-darkening welding lens SA 60B, powered air respirator PFU 210e, air hose, pre-filter, particle filter, battery 3.2 Ah, battery charger, flow meter, leather belt with comfort padding. For package with a battery, please use order code P0706.



Technical data

Welding filter type	SA 60B
ADF view size (mm)	100×60
ADF shade range	9-13
ADF light state	3.5
ADF switching time	0.1 ms
ADF sensors	3
ADF remote control	No
ADF classification	V1
Flip-up visor	Yes
Respirator unit	PFU 210e
Respirator unit air filter	Prefilter, Particle filter Life+, Gas filter Life+ , Odor filter (optional)
Respirator unit belt size (cm)	125 cm
Respirator unit battery type and voltage	SD: Li-ion 14.4 V, 3.2 Ah (46 Wh), HD: Li-ion 14.4 V, 6.4 Ah (92 Wh)
Respirator unit average battery life with filters	SD: 7 h, HD: 9 h
Minimum airflow	160 l/min
Maximum airflow	210 l/min
Standards	EN 175 B, EN 166 B, EN 397, EN 12941 TH2, EN 14594 2B, AS/NZS 1716 P1, AS/NZS 1337.1, AS/NZS 1338.1

Accessories, spares and consumables

Gas Filter • SP009934		Particle Filter Life+ 2 pcs • SP015757	
Hose Protection Cover • SP010788		Air Duct Tie • SP024735	
Li-ion Battery HD • SP012021		Odor Pre-filter 10 pcs • SP027163	
Odor Filter • SP012223		PAPR Backpack System • SP029596	
Inner Protection Plate 106.5×65.5×1mm • SP012425		Pre-filter 10 pcs • SP9320002	
Battery, Li-ion SD 3.2 Ah • SP012584		Pre-filter 100 pcs • SP9320002MP	
Comfort Band Padding 5 pcs • SP013231		Sweatband 2 pcs • SP9873018	
Face Seal Beta e • SP015537		Protection Plate 90×110×1.0mm 10 pcs • SP9873253	

Protection Plate 90×110×1.0mm 500 pcs • SP9873253A		Air Hose Sealing Rings, 2 pcs • SP010784	
Protection Plate 90×110×1.0mm 1000 pcs • SP9873253B		PFU 210e Powered Air Purifying Respirator • SP011996	
Safety Plate 90×110×1.5mm 10 pcs • SP9873254		Filter Cover for PFU 210e • SP012095	
Safety Plate 90×110×1.5mm 500 pcs • SP9873254A		PFU 210e Body • SP012217	
Safety Plate 90×110×1.5mm 1000 pcs • SP9873254B		Air Hose • SP012253	
Headband • SP009023		Battery Charger • SP012426	
Leather Belt • SP010243		Flow Meter • SP012492	
Neck Band • SP010728		Belt Assembly • SP012999	

Hook and Loop Tape, Hook Side 1m SP014059		Magnifying Lens 1.5x 9873261	
Air Duct for Beta e FA SP014067		Magnifying Lens 2.0x 9873262	
Adjuster Set SP014349		Magnifying Lens 2.5x 9873263	
Hatch Set Beta e90 SP015664		Kemppi Tool Bag SP010090	
Spark Shield SP9320003		Leather Welding Bib SP015177	
Beta e90 FA Welding Helmet without ADF SP9873004		Universal Leather Neck Protector SP015579	
SA 60B Welding Filter SP9873064		Helmet Bag, Small SP023780	
Magnifying Lens 1.0x 9873260			

BETA E90 SFA + RSA 230

9873033

Welder's respirator for connection to a supplied breathing air source. Package contains Beta e90 SFA welding helmet, auto-darkening welding filter SA 60B, supplied air regulator RSA 230, air hose and air hose adapter for RSA 230, flow meter, leather belt with comfort padding.



Technical data

Welding filter type	SA 60B
ADF view size (mm)	100×60
ADF shade range	9-13
ADF light state	3.5
ADF switching time	0.1 ms
ADF sensors	3
ADF remote control	No
ADF classification	V1
Flip-up visor	Yes
Respirator unit	RSA 230
Respirator unit belt size (cm)	125 cm
Supply pressure hose length	10 ... 30 m
Required supply air pressure	550 ... 600 kPa
Minimum airflow	160 l/min
Maximum airflow	400 l/min
Standards	EN 175 B, EN 166 B, EN 397, EN 12941 TH2, EN 14594 2B, AS/NZS 1716 P1, AS/NZS 1337.1, AS/NZS 1338.1

Accessories, spares and consumables

Hose Protection Cover • SP010788		Protection Plate 90×110×1.0mm 500 pcs • SP9873253A	
Inner Protection Plate 104×54×1mm • SP012952		Protection Plate 90×110×1.0mm 1000 pcs • SP9873253B	
Comfort Band Padding 5 pcs • SP013231		Safety Plate 90×110×1.5mm 10 pcs • SP9873254	
Face Seal Beta e • SP015537		Safety Plate 90×110×1.5mm 500 pcs • SP9873254A	
Air Duct Tie • SP024735		Safety Plate 90×110×1.5mm 1000 pcs • SP9873254B	
Sweatband 2 pcs • SP9873018		Headband • SP009023	
Protection Plate 90×110×1.0mm 10 pcs • SP9873253		Leather Belt • SP010243	

Neck Band • SP010728		Hook and Loop Tape, Hook Side 1m • SP014059	
Air Hose Sealing Rings, 2 pcs • SP010784		Air Duct for Beta e FA • SP014067	
Air Hose Adapter for RSA 230 • SP011227		Adjuster Set • SP014349	
RSA 230 Supplied Air Regulator • SP011617		Hatch Set Beta e90 • SP015664	
Air Hose • SP012253		Beta e90 FA Welding Helmet without ADF • SP9873004	
Flow Meter • SP012492		SA 60B Welding Filter • SP9873064	
Supplied Air Regular for RSA 230 • SP012857		Magnifying Lens 1.0x • 9873260	
Belt Assembly • SP012999		Magnifying Lens 1.5x • 9873261	

Magnifying Lens 2.0x • 9873262		Pressure Hose, 10m • SP013848	
Magnifying Lens 2.5x • 9873263		Leather Welding Bib • SP015177	
Kemppi Tool Bag • SP010090			

BETA E90 XFA + PFU 210E

9873605

TH2-rated PAPR packages feature solutions for both particle and gas filtration. Package contains Beta e90 XFA welding helmet, auto-darkening welding lens XA 47, powered air respirator PFU 210e, air hose, pre-filter, particle filter, battery 3.2 Ah, battery charger, flow meter, leather belt with comfort padding. For a package with a battery, please use order code P0711.



Technical data

Welding filter type	XA 47
ADF view size (mm)	97×47
ADF shade range	9-13/14-15
ADF light state	4
ADF switching time	0.1 ms
ADF sensors	2
ADF remote control	No
ADF classification	1/1/1/2
Flip-up visor	Yes
Respirator unit	PFU 210e
Respirator unit air filter	Prefilter, Particle filter Life+, Gas filter Life+ , Odor filter (optional)
Respirator unit belt size (cm)	125 cm
Respirator unit battery type and voltage	SD: Li-ion 14.4 V, 3.2 Ah (46 Wh), HD: Li-ion 14.4 V, 6.4 Ah (92 Wh)
Respirator unit average battery life with filters	SD: 7 h, HD: 9 h
Minimum airflow	160 l/min
Maximum airflow	210 l/min
Standards	EN 175 B, EN 166 B, EN 397, EN 12941 TH2, EN 14594 2B, AS/NZS 1716 P1, AS/NZS 1337.1, AS/NZS 1338.1

Accessories, spares and consumables

Gas Filter • SP009934		Particle Filter Life+ 2 pcs • SP015757	
Hose Protection Cover • SP010788		Air Duct Tie • SP024735	
Li-ion Battery HD • SP012021		Odor Pre-filter 10 pcs • SP027163	
Odor Filter • SP012223		PAPR Backpack System • SP029596	
Battery, Li-ion SD 3.2 Ah • SP012584		Pre-filter 10 pcs • SP9320002	
Inner Protection Plate 104×54x-1mm • SP012952		Pre-filter 100 pcs • SP9320002MP	
Comfort Band Padding 5 pcs • SP013231		Sweatband 2 pcs • SP9873018	
Face Seal Beta e • SP015537		Protection Plate 90×110×1.0mm 10 pcs • SP9873253	

Protection Plate 90×110×1.0mm 500 pcs • SP9873253A		Air Hose Sealing Rings, 2 pcs • SP010784	
Protection Plate 90×110×1.0mm 1000 pcs • SP9873253B		PFU 210e Powered Air Purifying Respirator • SP011996	
Safety Plate 90×110×1.5mm 10 pcs • SP9873254		Filter Cover for PFU 210e • SP012095	
Safety Plate 90×110×1.5mm 500 pcs • SP9873254A		PFU 210e Body • SP012217	
Safety Plate 90×110×1.5mm 1000 pcs • SP9873254B		Air Hose • SP012253	
Headband • SP009023		Battery Charger • SP012426	
Leather Belt • SP010243		Flow Meter • SP012492	
Neck Band • SP010728		Belt Assembly • SP012999	

Hook and Loop Tape, Hook Side 1m SP014059		Magnifying Lens 1.5x 9873261	
Air Duct for Beta e FA SP014067		Magnifying Lens 2.0x 9873262	
Adjuster Set SP014349		Magnifying Lens 2.5x 9873263	
Hatch Set Beta e90 SP015664		Kemppi Tool Bag SP010090	
Spark Shield SP9320003		Leather Welding Bib SP015177	
Beta e90 FA Welding Helmet without ADF SP9873004		Universal Leather Neck Protector SP015579	
XA 47 Welding Filter SP9873063		Helmet Bag, Small SP023780	
Magnifying Lens 1.0x 9873260			

BETA E90 XFA + RSA 230

9873037

Welder's respirator for connection to a supplied breathing air source. Package contains Beta e90 XFA welding helmet, auto-darkening welding lens XA 47, supplied air regulator RSA 230, air hose and air hose adapter for RSA 230, flow meter, and leather belt with comfort padding.



Technical data

Welding filter type	XA 47
ADF view size (mm)	97×47
ADF shade range	9-13/14-15
ADF light state	4
ADF switching time	0.1 ms
ADF sensors	2
ADF remote control	No
ADF classification	1/1/1/2
Flip-up visor	Yes
Respirator unit	RSA 230
Respirator unit belt size (cm)	125 cm
Supply pressure hose length	10 ... 30 m
Required supply air pressure	550 ... 600 kPa
Minimum airflow	160 l/min
Maximum airflow	400 l/min
Standards	EN 175 B, EN 166 B, EN 397, EN 12941 TH2, EN 14594 2B, AS/NZS 1716 P1, AS/NZS 1337.1, AS/NZS 1338.1

Accessories, spares and consumables

Hose Protection Cover • SP010788		Protection Plate 90×110×1.0mm 1000 pcs • SP9873253B	
Inner Protection Plate 104×54×1mm • SP012952		Safety Plate 90×110×1.5mm 10 pcs • SP9873254	
Comfort Band Padding 5 pcs • SP013231		Safety Plate 90×110×1.5mm 500 pcs • SP9873254A	
Face Seal Beta e • SP015537		Safety Plate 90×110×1.5mm 1000 pcs • SP9873254B	
Air Duct Tie • SP024735		Headband • SP009023	
Sweatband 2 pcs • SP9873018		Leather Belt • SP010243	
Protection Plate 90×110×1.0mm 10 pcs • SP9873253		Neck Band • SP010728	
Protection Plate 90×110×1.0mm 500 pcs • SP9873253A		Air Hose Sealing Rings, 2 pcs • SP010784	

Air Hose Adapter for RSA 230 • SP011227		Adjuster Set • SP014349	
RSA 230 Supplied Air Regulator • SP011617		Hatch Set Beta e90 • SP015664	
Air Hose • SP012253		Beta e90 FA Welding Helmet without ADF • SP9873004	
Flow Meter • SP012492		XA 47 Welding Filter • SP9873063	
Supplied Air Regular for RSA 230 • SP012857		Magnifying Lens 1.0x • 9873260	
Belt Assembly • SP012999		Magnifying Lens 1.5x • 9873261	
Hook and Loop Tape, Hook Side 1m • SP014059		Magnifying Lens 2.0x • 9873262	
Air Duct for Beta e FA • SP014067		Magnifying Lens 2.5x • 9873263	

Kemppi Tool Bag

- SP010090



Leather Welding Bib

- SP015177



Pressure Hose, 10m

- SP013848



BETA E90 PFA + PFU 210E

9873603

TH2-rated PAPR packages feature solutions for both particle and gas filtration. Package contains Beta e90 PFA welding helmet, shade 11 passive welding lens, powered air respirator PFU 210e, air hose, pre-filter, particle filter, battery 3.2 Ah, battery charger, flow meter, leather belt with comfort padding. For a package with a battery, please use order code P0701.



Technical data

Welding filter type	Passive
Flip-up visor	Yes
Respirator unit	PFU 210e
Respirator unit air filter	Prefilter, Particle filter Life+, Gas filter Life+ , Odor filter (optional)
Respirator unit belt size (cm)	125 cm
Respirator unit battery type and voltage	SD: Li-ion 14.4 V, 3.2 Ah (46 Wh), HD: Li-ion 14.4 V, 6.4 Ah (92 Wh)
Respirator unit average battery life with filters	SD: 7 h, HD: 9 h
Minimum airflow	160 l/min
Maximum airflow	210 l/min
Standards	EN 175 B, EN 166 B, EN 169, EN 12941 TH2, EN 14594 2B, AS/NZS 1716 P1, AS/NZS 1337.1, AS/NZS 1338.1

Accessories, spares and consumables

Welding Glass DIN 8 90×110 • 9873241		Welding Glass DIN 10 90×110 • 9873243	
Welding Glass DIN 9 90×110 • 9873242		Welding Glass DIN 11 90×110 • 9873244	

Welding Glass DIN 90×110 • 9873245		Particle Filter Life+ 2 pcs • SP015757	
Welding Glass DIN 13 90×110 • 9873246		Air Duct Tie • SP024735	
Gas Filter • SP009934		Odor Pre-filter 10 pcs • SP027163	
Hose Protection Cover • SP010788		PAPR Backpack System • SP029596	
Li-ion Battery HD • SP012021		Pre-filter 10 pcs • SP9320002	
Battery, Li-ion SD 3.2 Ah • SP012584		Pre-filter 100 pcs • SP9320002MP	
Comfort Band Padding 5 pcs • SP013231		Sweatband 2 pcs • SP9873018	
Face Seal Beta e • SP015537		Protection Plate 90×110×1.0mm 10 pcs • SP9873253	

Protection Plate 90×110×1.0mm 500 pcs • SP9873253A		Air Hose Sealing Rings, 2 pcs • SP010784	
Protection Plate 90×110×1.0mm 1000 pcs • SP9873253B		PFU 210e Powered Air Purifying Respirator • SP011996	
Safety Plate 90×110×1.5mm 10 pcs • SP9873254		Filter Cover for PFU 210e • SP012095	
Safety Plate 90×110×1.5mm 500 pcs • SP9873254A		PFU 210e Body • SP012217	
Safety Plate 90×110×1.5mm 1000 pcs • SP9873254B		Air Hose • SP012253	
Headband • SP009023		Battery Charger • SP012426	
Leather Belt • SP010243		Flow Meter • SP012492	
Neck Band • SP010728		Belt Assembly • SP012999	

Hook and Loop Tape, Hook Side 1m SP014059		Magnifying Lens 1.5x 9873261	
Air Duct for Beta e FA SP014067		Magnifying Lens 2.0x 9873262	
Adjuster Set SP014349		Magnifying Lens 2.5x 9873263	
Hatch Set Beta e90 SP015664		Kemppi Tool Bag SP010090	
Filter Retaining Spring 90 10 pcs SP3149850		Leather Welding Bib SP015177	
Spark Shield SP9320003		Universal Leather Neck Protector SP015579	
Beta e90 FA Welding Helmet without ADF SP9873004		Helmet Bag, Small SP023780	
Magnifying Lens 1.0x 9873260			

BETA E90 PFA + RSA 230

9873031

Welder's respirator for connection to a supplied breathing air source. Package contains Beta e90 PFA welding helmet, passive welding lens, supplied air regulator RSA 230, air hose and air hose adapter for RSA 230, flow meter, and leather belt with comfort padding.



Technical data

Welding filter type	Passive
Flip-up visor	Yes
Respirator unit	RSA 230
Respirator unit belt size (cm)	125 cm
Supply pressure hose length	10 ... 30 m
Required supply air pressure	550 ... 600 kPa
Minimum airflow	160 l/min
Maximum airflow	400 l/min
Standards	EN 175 B, EN 166 B, EN 169, EN 12941 TH2, EN 14594 2B, AS/NZS 1716 P1, AS/NZS 1337.1, AS/NZS 1338.1

Accessories, spares and consumables

Welding Glass DIN 8 90×110 • 9873241		Welding Glass DIN 10 90×110 • 9873243	
Welding Glass DIN 9 90×110 • 9873242		Welding Glass DIN 11 90×110 • 9873244	

Welding Glass DIN 90×110 • 9873245		Protection Plate 90×110×1.0mm 500 pcs • SP9873253A	
Welding Glass DIN 13 90×110 • 9873246		Protection Plate 90×110×1.0mm 1000 pcs • SP9873253B	
Hose Protection Cover • SP010788		Safety Plate 90×110×1.5mm 10 pcs • SP9873254	
Comfort Band Padding 5 pcs • SP013231		Safety Plate 90×110×1.5mm 500 pcs • SP9873254A	
Face Seal Beta e • SP015537		Safety Plate 90×110×1.5mm 1000 pcs • SP9873254B	
Air Duct Tie • SP024735		Headband • SP009023	
Sweatband 2 pcs • SP9873018		Leather Belt • SP010243	
Protection Plate 90×110×1.0mm 10 pcs • SP9873253		Neck Band • SP010728	

Air Hose Sealing Rings, 2 pcs • SP010784		Air Duct for Beta e FA • SP014067	
Air Hose Adapter for RSA 230 • SP011227		Adjuster Set • SP014349	
RSA 230 Supplied Air Regulator • SP011617		Hatch Set Beta e90 • SP015664	
Air Hose • SP012253		Filter Retaining Spring 90 10 pcs • SP3149850	
Flow Meter • SP012492		Beta e90 FA Welding Helmet without ADF • SP9873004	
Supplied Air Regular for RSA 230 • SP012857		Magnifying Lens 1.0x • 9873260	
Belt Assembly • SP012999		Magnifying Lens 1.5x • 9873261	
Hook and Loop Tape, Hook Side 1m • SP014059		Magnifying Lens 2.0x • 9873262	

Magnifying Lens 2.5x • 9873263		Pressure Hose, 10m • SP013848	
Kemppi Tool Bag • SP010090		Leather Welding Bib • SP015177	

BETA E90A SH

9873027

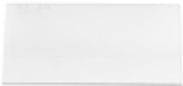
Beta e90A SH welding mask with an automatic darkening welding filter offers reliable full-face protection and it is compatible with Kask, Petzl and Zekler hard hats with passive earmuffs. Quick and secure installation to the hard hat earmuff holder enables easy shifting into different work modes especially in the challenging work environments.



Technical data

Welding filter type	SA 60B
ADF view size (mm)	100×60
ADF shade range	9-13
ADF light state	3.5
ADF switching time	0.1 ms
ADF sensors	3
ADF remote control	No
ADF classification	1/1/1/1
Flip-up visor	Yes
Standards	EN 175 B, EN 166 B, EN 379, AS/NZS 1337.1, AS/NZS 1338.1

Accessories, spares and consumables

Inner Protection Plate 106.5×65.5×1mm • SP012425		Protection Plate 90×110×1.0mm 500 pcs • SP9873253A	
Protection Plate 90×110×1.0mm 10 pcs • SP9873253		Protection Plate 90×110×1.0mm 1000 pcs • SP9873253B	

Safety Plate 90×110×1.5mm 10 pcs • SP9873254		Magnifying Lens 2.0x • 9873262	
Safety Plate 90×110×1.5mm 500 pcs • SP9873254A		Magnifying Lens 2.5x • 9873263	
Safety Plate 90×110×1.5mm 1000 pcs • SP9873254B		Beta e397 Hard Hat • 9873397	
Hatch Set Beta e90 • SP015664		Beta e397V Hard Hat • 9873397V	
Temple Arm Set for Beta SH • SP023436		Kempfi Tool Bag • SP010090	
SA 60B Welding Filter • SP9873064		Leather Welding Bib • SP015177	
Magnifying Lens 1.0x • 9873260		Universal Leather Neck Protector • SP015579	
Magnifying Lens 1.5x • 9873261		Helmet Bag, Small • SP023780	

Beta 397 Adapter 30mm

- WAC00008



Hearing Protectors Kask SC2

- WHP00005



BETA E90A SH KIT

9873029

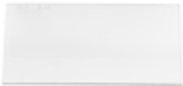
Beta e90A SH kit with Beta e397 hard hat, Beta e90A SH welding mask and Kask earmuffs. A complete set is an easy solution for welding work and provides an ability to remove it quickly in order to continue with other work tasks while wearing the hard hat.



Technical data

Welding filter type	SA 60B
ADF view size (mm)	100×60
ADF shade range	9-13
ADF light state	3.5
ADF switching time	0.1 ms
ADF sensors	3
ADF remote control	No
ADF classification	1/1/1/1
Flip-up visor	Yes
Standards	EN 175 B, EN 166 B, EN 379, EN 397, AS/NZS 1337.1, AS/NZS 1338.1

Accessories, spares and consumables

Inner Protection Plate 106.5×65.5×1mm • SP012425		Protection Plate 90×110×1.0mm 500 pcs • SP9873253A	
Protection Plate 90×110×1.0mm 10 pcs • SP9873253		Protection Plate 90×110×1.0mm 1000 pcs • SP9873253B	

Safety Plate 90×110×1.5mm 10 pcs • SP9873254		Beta e397 Hard Hat • 9873397	
Safety Plate 90×110×1.5mm 500 pcs • SP9873254A		Beta e397V Hard Hat • 9873397V	
Safety Plate 90×110×1.5mm 1000 pcs • SP9873254B		Hatch Set Beta e90 • SP015664	
SC2 Hygiene Kit • WAC00006		Temple Arm Set for Beta SH • SP023436	
SC3 Hygiene Kit • WAC00007		SA 60B Welding Filter • SP9873064	
Beta e397 Inner Padding • WPA00010		Magnifying Lens 1.0x • 9873260	
Beta e397 Sweatband • WPA00011		Magnifying Lens 1.5x • 9873261	
Beta e397 Sweatband EC • WPA00012		Magnifying Lens 2.0x • 9873262	

Magnifying Lens 2.5x • 9873263		Helmet Bag, Small • SP023780	
Kemppi Tool Bag • SP010090		Beta 397 Adapter 30mm • WAC00008	
Leather Welding Bib • SP015177		Hearing Protectors Kask SC2 • WHP00005	
Universal Leather Neck Protector • SP015579			

BETA E90P SH

9873026

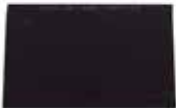
Beta e90P SH welding mask with a passive welding filter offers reliable full-face protection. It is compatible with Kask, Petzl and Zekler hard hats with passive earmuffs. Quick and secure installation to the hard hat earmuff holder enables easy shifting into different work modes especially in the challenging work environments.



Technical data

Welding filter type	Passive
Flip-up visor	Yes
Standards	EN 175 B, EN 166 B, EN 379, AS/NZS 1337.1, AS/NZS 1338.1

Accessories, spares and consumables

Welding Glass DIN 8 90×110 • 9873241		Welding Glass DIN 11 90×110 • 9873244	
Welding Glass DIN 9 90×110 • 9873242		Welding Glass DIN 90×110 • 9873245	
Welding Glass DIN 10 90×110 • 9873243		Welding Glass DIN 13 90×110 • 9873246	

Protection Plate 90×110×1.0mm 10 pcs • SP9873253		Filter Retaining Spring 90 10 pcs • SP3149850	
Protection Plate 90×110×1.0mm 500 pcs • SP9873253A		Beta e397 Hard Hat • 9873397	
Protection Plate 90×110×1.0mm 1000 pcs • SP9873253B		Beta e397V Hard Hat • 9873397V	
Safety Plate 90×110×1.5mm 10 pcs • SP9873254		Kemppi Tool Bag • SP010090	
Safety Plate 90×110×1.5mm 500 pcs • SP9873254A		Leather Welding Bib • SP015177	
Safety Plate 90×110×1.5mm 1000 pcs • SP9873254B		Universal Leather Neck Protector • SP015579	
Hatch Set Beta e90 • SP015664		Helmet Bag, Small • SP023780	
Temple Arm Set for Beta SH • SP023436		Beta 397 Adapter 30mm • WAC00008	

Hearing Protectors Kask SC2

- WHP00005



BETA E90P SH KIT

9873028

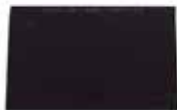
Beta e90P SH kit with Beta e397 hard hat, Beta e90P SH welding mask and Kask earmuffs. A complete set is an easy solution for welding work and provides an ability to remove it quickly in order to continue with other work tasks while wearing the hard hat.

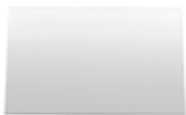


Technical data

Welding filter type	Passive
ADF remote control	No
Flip-up visor	Yes
Standards	EN 175 B, EN 166 B, EN 397

Accessories, spares and consumables

Welding Glass DIN 8 90×110 • 9873241		Welding Glass DIN 11 90×110 • 9873244	
Welding Glass DIN 9 90×110 • 9873242		Welding Glass DIN 90×110 • 9873245	
Welding Glass DIN 10 90×110 • 9873243		Welding Glass DIN 13 90×110 • 9873246	

Protection Plate 90×110×1.0mm 10 pcs • SP9873253		Beta e397 Inner Padding • WPA00010	
Protection Plate 90×110×1.0mm 500 pcs • SP9873253A		Beta e397 Sweatband • WPA00011	
Protection Plate 90×110×1.0mm 1000 pcs • SP9873253B		Beta e397 Sweatband EC • WPA00012	
Safety Plate 90×110×1.5mm 10 pcs • SP9873254		Beta e397 Hard Hat • 9873397	
Safety Plate 90×110×1.5mm 500 pcs • SP9873254A		Beta e397V Hard Hat • 9873397V	
Safety Plate 90×110×1.5mm 1000 pcs • SP9873254B		Hatch Set Beta e90 • SP015664	
SC2 Hygiene Kit • WAC00006		Temple Arm Set for Beta SH • SP023436	
SC3 Hygiene Kit • WAC00007		Filter Retaining Spring 90 10 pcs • SP3149850	

Kemppi Tool Bag • SP010090		Helmet Bag, Small • SP023780	
Leather Welding Bib • SP015177		Beta 397 Adapter 30mm • WAC00008	
Universal Leather Neck Protector • SP015579		Hearing Protectors Kask SC2 • WHP00005	

PRODUCT SELECTION TABLE

Beta e90P



Beta e90A



Beta e90X



Beta	Beta e90P	Beta e90A	Beta e90X
MIG/MAG	●	●	●
MMA	●	●	●
TIG	●	●	
Gouging	●	●	●
Plasma welding	●	●	●
Plasma cutting	●	●	●
Helmet weight	475 g	505 g	525 g
ADF view size (mm)		100×60	97×47
ADF shade range		9-13	9-13/14-15
LED light	No	No	No

PRODUCT SELECTION TABLE

Beta e90 PFA + RSA 230



Beta e90 SFA + RSA 230



Beta e90 XFA + RSA 230



Beta e90 PFA + PFU 210e



Beta e90 SFA + PFU 210e



Beta e90 XFA + PFU 210e



Beta Fresh Air	Beta e90 PFA + RSA 230	Beta e90 SFA + RSA 230	Beta e90 XFA + RSA 230	Beta e90 PFA + PFU 210e	Beta e90 SFA + PFU 210e	Beta e90 XFA + PFU 210e
MIG/MAG	●	●	●	●	●	●
MMA	●	●	●	●	●	●
TIG	●	●		●	●	
Gouging	●	●	●	●	●	●
Plasma welding	●	●	●	●	●	●
Plasma cutting	●	●	●	●	●	●
Helmet weight	650 g	680 g	700 g	650 g	680 g	700 g
ADF view size (mm)		100×60	97×47		100×60	97×47
ADF shade range		9-13	9-13/14-15		9-13	9-13/14-15
Respirator unit	RSA 230	RSA 230	RSA 230	PFU 210e	PFU 210e	PFU 210e
LED light	No	No	No	No	No	No
Respiratory level	TH2	TH2	TH2	TH2	TH2	TH2
Hard hat protection	No	No	No	No	No	No
Compatible with hearing protection	No	No	No	No	No	No

PRODUCT SELECTION TABLE

Beta e90P SH



Beta e90P SH



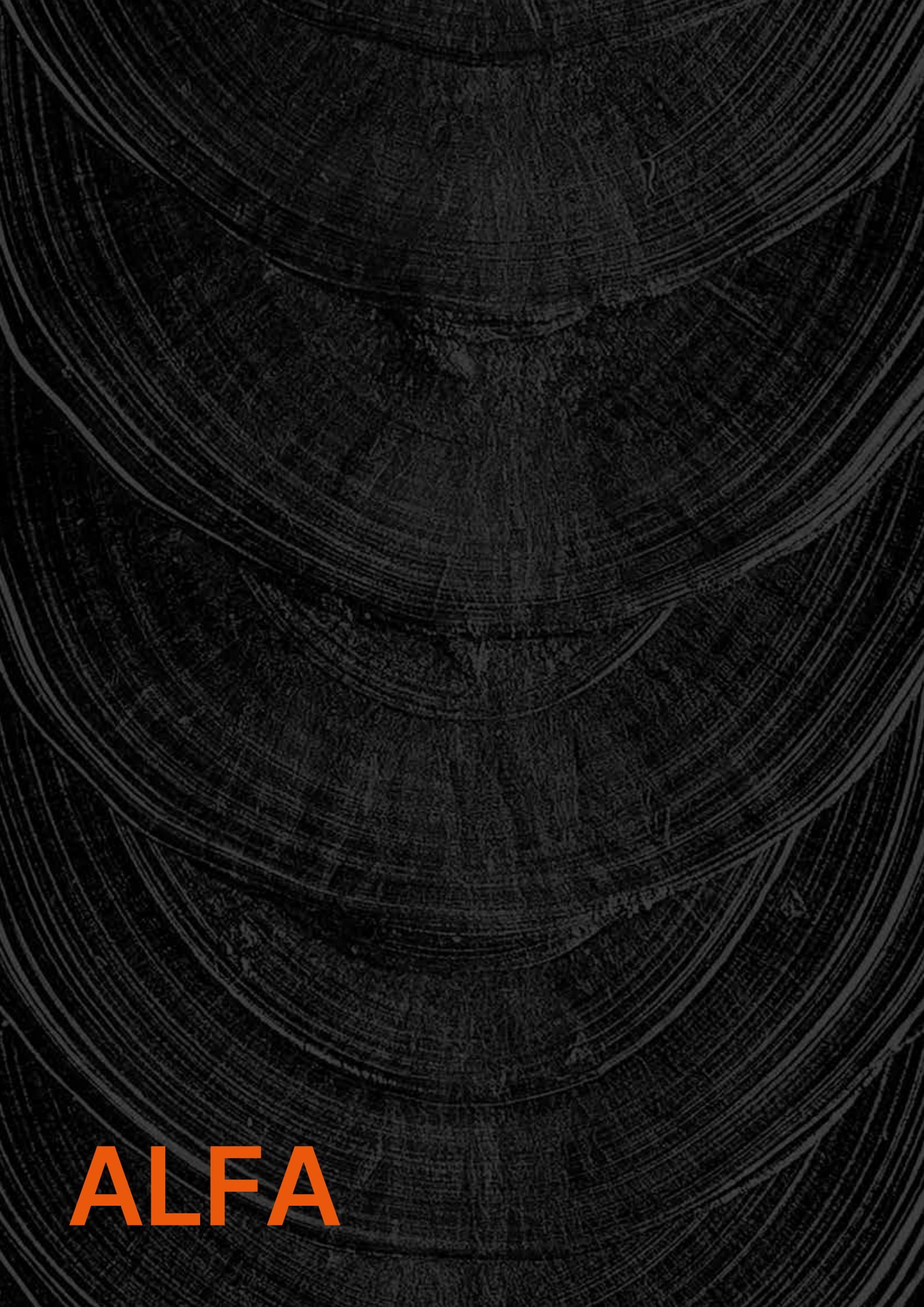
Beta e90P SH Kit



Beta e90A SH Kit



Beta e SH	Beta e90P SH	Beta e90A SH	Beta e90P SH Kit	Beta e90A SH Kit
MIG/MAG	●	●	●	●
MMA	●	●	●	●
TIG	●	●	●	●
Gouging	●	●	●	●
Plasma welding	●	●	●	●
Plasma cutting	●	●	●	●
Helmet weight	440 g	470 g	1225 g	1285 g
ADF view size (mm)		100×60		100×60
ADF shade range		9-13		9-13
LED light	No	No	No	No



ALFA

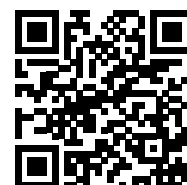


ALFA WELDING MASKS

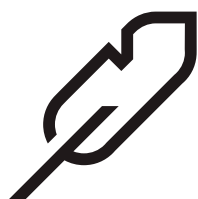
Lightweight welding mask with perfect balance

Alfa represents the most compact, lightweight welding helmet in the Kemppi welder's protection range. A durable, low cost solution for light to medium duty welding tasks.

Visit website
Scan QR code or
[click here](#)

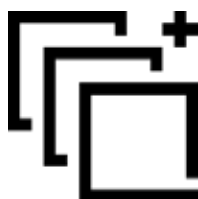


MAIN BENEFITS



Lightweight and comfortable

Alfa welding shield weighs only 467g making it very comfortable to wear, allowing good access for tight work-spaces.



Suitable for multiple use

Premium protection for welding, cutting, grinding and inspection processes.



Comfortable and cost-effective

As a light to medium duty helmet, Alfa offers a well-balanced mix of protection, comfort and cost-effectiveness.

KEY FEATURES



Lightweight design

Weighing only 467g, the Alfa helmet is among the lightest in Kemppi's range, reducing neck fatigue during prolonged use.



Flip-up lens cassette with GapView setting

Features a flip-up welding lens cassette for pre- and post-weld inspection, with a GapView setting for enhanced visibility.



Auto-Darkening Filter (ADF)

The optional ADF SA 35 offers a shade range of 9–13 and a switching time of 0.1 ms, providing optimal eye protection across various welding processes.



Comfort & fit features

The strong, adjustable ComFlex headband ensures a comfortable and secure fit, adaptable to individual users.

ALFA E60P

9873020

Alfa e60P welding mask with a passive welding filter offers the most compact and lightweight face shield for light to medium duty welding tasks. The model also features generous shell dimensions, flip-up welding lens with GapView setting and ComFlex headband.



Technical data

Welding filter type	Passive
Flip-up visor	Yes
Standards	EN 175 B, EN 166 B, EN 169, AS/NZS 1337.1, AS/NZS 1338.1

Accessories, spares and consumables

Welding Glass DIN 8 60×110 • 9873161		Welding Glass DIN 11 60×110 • 9873191	
Welding Glass DIN 9 60×110 • 9873171		Welding Glass DIN 12 60×110 • 9873202	
Welding Glass DIN 10 60×110 • 9873181		Welding Glass DIN 13 60×110 • 9873211	

Comfort Band Padding 5 pcs • SP013231		Adjuster Set • SP014349	
Sweatband 2 pcs • SP9873018		Hatch Set for Alfa e60 • SP015663	
Protection Plate 60×110mm • SP9873252		Filter Retaining Spring 60 10 pcs • SP3149840	
Safety Plate 90×110×1.5mm 10 pcs • SP9873254		Alfa e60 Welding Helmet without ADF • SP9873021	
Safety Plate 90×110×1.5mm 500 pcs • SP9873254A		Magnifying Lens 1.0x • 9873260	
Safety Plate 90×110×1.5mm 1000 pcs • SP9873254B		Magnifying Lens 1.5x • 9873261	
Headband • SP009023		Magnifying Lens 2.0x • 9873262	
Neck Band • SP010728		Magnifying Lens 2.5x • 9873263	

Kemppi Tool Bag

- SP010090



Universal Leather Neck Protector

- SP015579



Leather Welding Bib

- SP015177



ALFA E60A

9873021

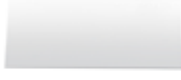
Alfa e60A welding mask with an auto-darkening welding filter SA 35 offers the most compact and lightweight face shield for light to medium duty welding tasks. The model also features generous shell dimensions, flip-up welding lens with GapView setting and ComFlex headband.



Technical data

Welding filter type	SA 35
ADF view size (mm)	96×35
ADF shade range	9-13
ADF light state	4
ADF switching time	0.1 ms
ADF sensors	2
ADF remote control	No
ADF classification	1/1/1/2
Flip-up visor	Yes
Standards	EN 175 B, EN 166 B, EN 379

Accessories, spares and consumables

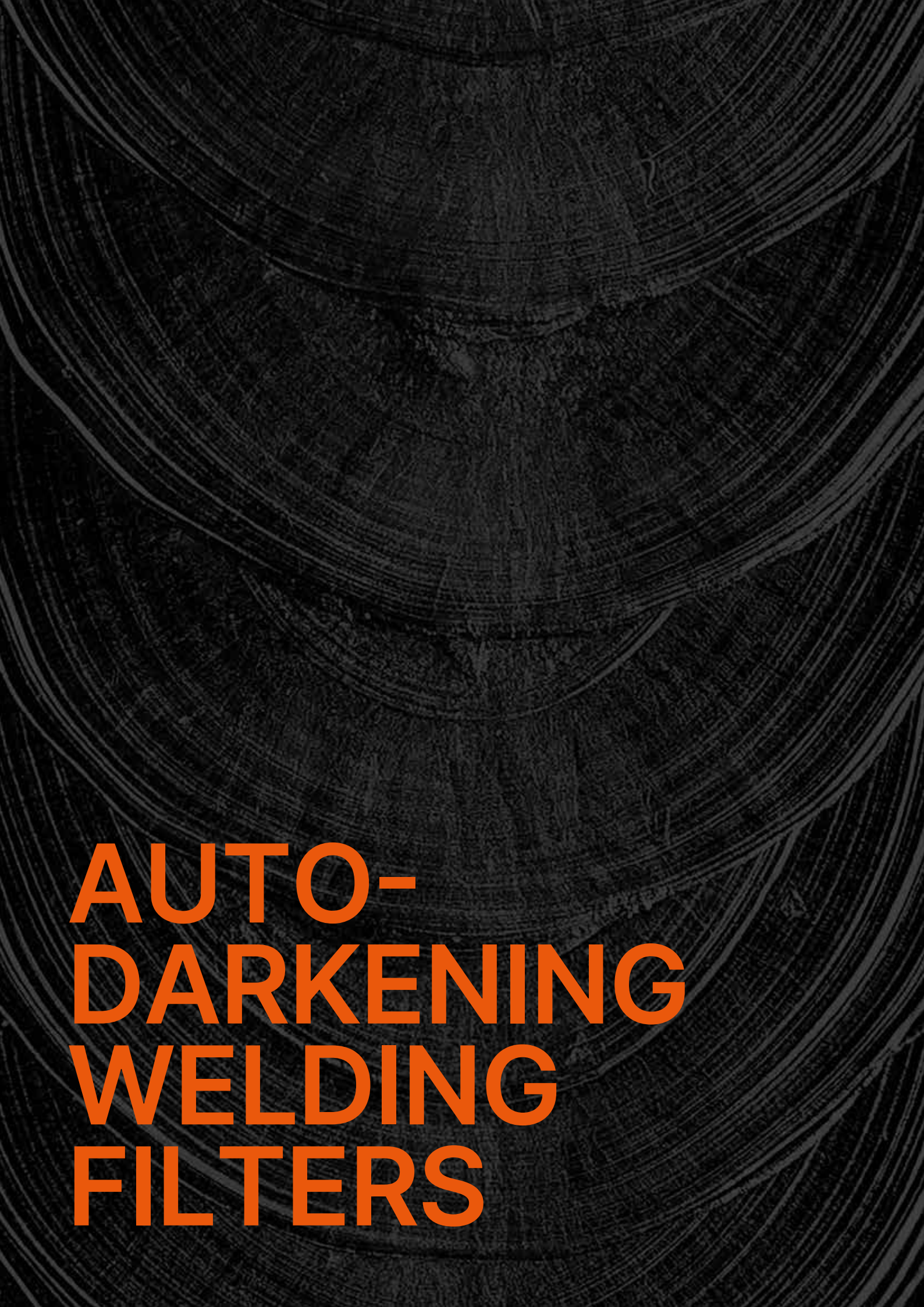
Inner Protection Plate 108×37x-1mm • SP012951		Sweatband 2 pcs • SP9873018	
Comfort Band Padding 5 pcs • SP013231		Protection Plate 60×110mm • SP9873252	

Safety Plate 90×110×1.5mm 10 pcs • SP9873254		SA 35 Welding Filter • SP9873061	
Safety Plate 90×110×1.5mm 500 pcs • SP9873254A		Magnifying Lens 1.0x • 9873260	
Safety Plate 90×110×1.5mm 1000 pcs • SP9873254B		Magnifying Lens 1.5x • 9873261	
Headband • SP009023		Magnifying Lens 2.0x • 9873262	
Neck Band • SP010728		Magnifying Lens 2.5x • 9873263	
Adjuster Set • SP014349		Kemppi Tool Bag • SP010090	
Hatch Set for Alfa e60 • SP015663		Leather Welding Bib • SP015177	
Alfa e60 Welding Helmet without ADF • SP9873021		Universal Leather Neck Protector • SP015579	

PRODUCT SELECTION TABLE



Alfa	Alfa e60P	Alfa e60A
MIG/MAG	●	●
MMA	●	●
TIG	●	
Gouging	●	●
Plasma welding	●	●
Plasma cutting	●	●
Helmet weight	470 g	490 g
ADF view size (mm)		96×35
ADF shade range		9-13
LED light	No	No



AUTO- DARKENING WELDING FILTERS

AUTO-DARKENING WELDING FILTERS

Digitally controlled protection for your eyes

Welding shields fitted with auto-darkening filters (ADF) protect your eyes from the intense light of the welding arc and UV/IR radiation. The ADF technology is based on liquid crystals that have the ability to switch their state when exposed to bright light, automatically switching from clear to dark instantly when you strike the arc and back to clear again when the arc is extinguished. The lens shade and its sensitivity to light is set by you according to the welding task and your personal needs.

Kemppi's ADF selection offers five models with different shade ranges and features. Please see the compatibility table.

Vision+ Color ADF technology enables greater clarity of vision and improved work accuracy, which reduces user eye strain and fatigue. Vision+ Color lenses improve color recognition and optical quality.

Remote-RC feature is included to Gamma welding helmets fitted with an ADF lens, making adjustment

of the ADF extremely easy whilst wearing the helmet. The remote control buttons are protected from impact and conveniently placed, making adjustment simple without taking the helmet off. Gamma ADF parameters are marked by color LEDs and can be clearly seen and recognized from inside the helmet, ideal for parameter adjustment when moving between tasks.



Before



During



After



Gamma ADF remote control is designed for operation whilst wearing the helmet. The orange silicone rubber remote buttons are located inside the helmet shell wall, adding protection from knocks and abrasions. The wearer can adjust the ADF settings and view the changes on the large ADF panel interface, plus switch on and off the LED works lights in Gamma GTH3 XFA model.

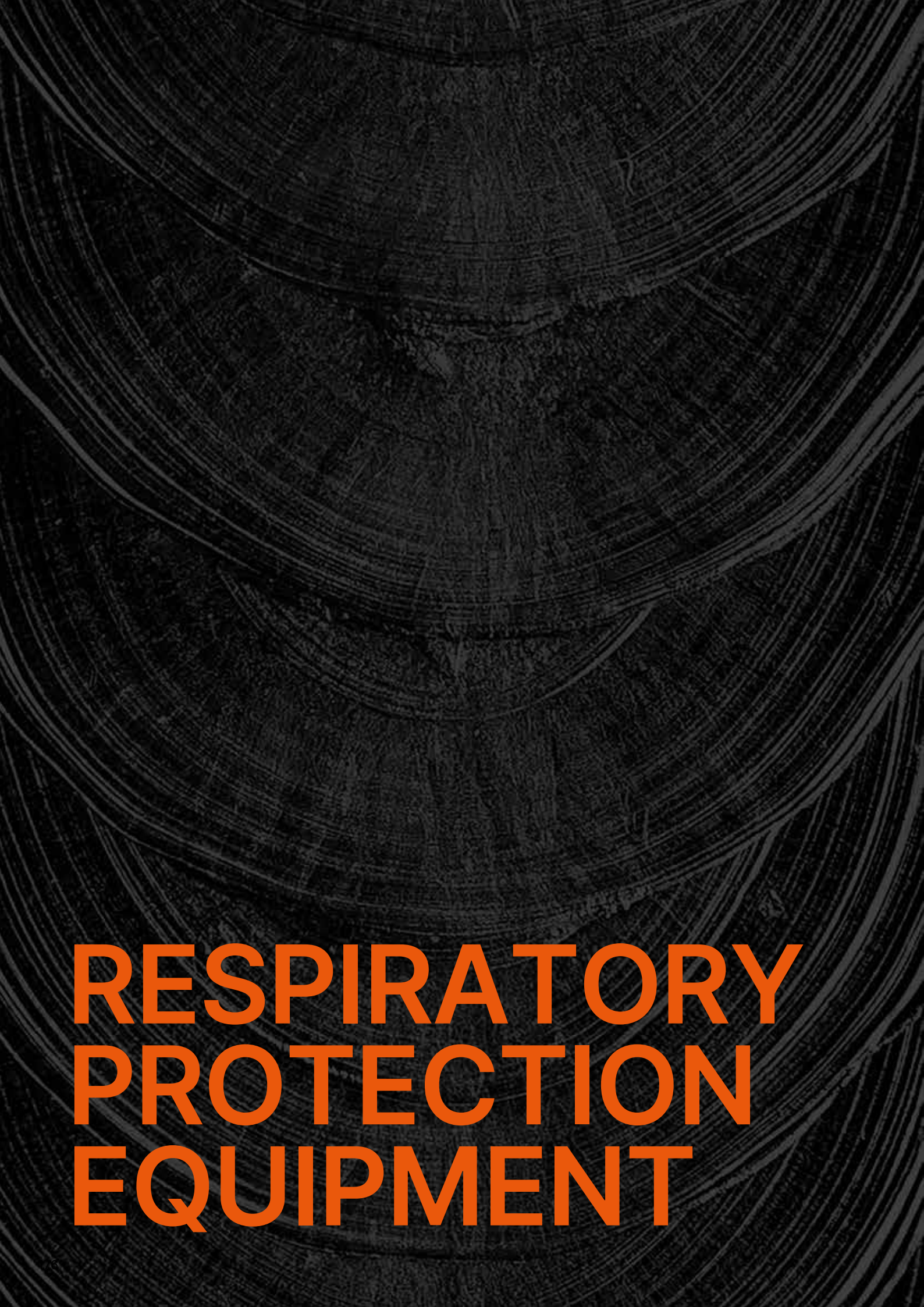
ADF SPECIFICATION AND COMPATIBILITY



ADF model	ADF S006	XA 74 Welding Filter	SA 60 Welding Filter	SA 35 Welding Filter
Product code	9875061	SP012421	SP012422	SP9873061
ADF view size (mm)	100×60	102×74	102×60	96×35
ADF shade range	9-13	8/9-13/14-15	8/9-13	9-13
ADF light state	4	4	4	4
ADF switching time	0.1 ms	0.1 ms	0.1 ms	0.1 ms
ADF sensors	4	2	2	2
Vision+ Color	Yes	Yes	Yes	Yes
ADF remote control	No	Yes	Yes	No
ADF battery type	2xCR2450	1 x CR2450	1 x CR2450	2xCR2032
ADF classification	1/1/1/1	1/1/1/2	1/1/1/2	1/1/1/2
Grind mode	Yes	Yes	Yes	No
Compatibility	S1065 S-line Fresh Air	Gamma GTH3 XFA + PFU 210e Gamma GTH3	Gamma 100A Gamma GTH3 SFA + RSA 230 Gamma GTH3 SFA + PFU 210e Gamma Gamma GTH3	Alfa e60A Alfa



ADF model	XA 47 Welding Filter	SA 60B Welding Filter	SA 60Z Welding Filter	XA 60Z Welding Filter
Product code	SP9873063	SP9873064	SP9873076	SP9873078
ADF view size (mm)	97×47	100×60	110×60	110×60
ADF shade range	9-13/14-15	9-13	8-12	9-13/14
ADF light state	4	3.5	2.5	3
ADF switching time	0.1 ms	0.1 ms	0.1 ms	0.1 ms
ADF sensors	2	3	3	3
Vision+ Color	Yes	Yes	Yes	Yes
ADF remote control	No	No	Yes	Yes
ADF battery type	1 x CR2450	2 x CR2032	1 x CR2450	1 x CR2450
ADF classification	1/1/1/2	V1	V1	V1
Grind mode	Yes	Yes	Yes	Yes
Compatibility	Beta e90X Beta e90 XFA + RSA 230 Beta e90 XFA + PFU 210e Beta Beta Fresh Air Delta Fresh Air	Beta e90A Beta e90A SH Beta e90A SH Kit Beta e90 SFA + RSA 230 Beta e90 SFA + PFU 210e Beta Beta e SH Beta Fresh Air Delta Fresh Air	Zeta W200 Zeta W200x Zeta W201 Fresh Air Helmet Zeta W201x Fresh Air Helmet Zeta W210 Zeta W210x Zeta W211 Fresh Air Helmet Zeta W211x Fresh Air Helmet Zeta Fresh Air W201 + PFU 210e Zeta Fresh Air W201X + PFU 210e Zeta Fresh Air W201 + RSA 230 Zeta Fresh Air W211 + PFU 210e Zeta Fresh Air W211x + PFU 210e Zeta Fresh Air W211 + RSA 230 Zeta Fresh Air W Zeta W	Zeta W200 Zeta W200x Zeta W201 Fresh Air Helmet Zeta W201x Fresh Air Helmet Zeta W210x Zeta W211 Fresh Air Helmet Zeta W211x Fresh Air Helmet Zeta Fresh Air W201 + PFU 210e Zeta Fresh Air W201X + PFU 210e Zeta Fresh Air W201 + RSA 230 Zeta Fresh Air W211 + PFU 210e Zeta Fresh Air W211x + PFU 210e Zeta Fresh Air W211 + RSA 230 Zeta W



RESPIRATORY PROTECTION EQUIPMENT



POWERED FILTER UNITS FOR SAFE AND EASY BREATHING

Portable unit gives you freedom of movement

Powered filter units, or Powered Air Purifying Respirators (PAPR), are the most advanced group of personal protective equipment providing a high level of protection even for long lasting applications. Battery powered portable fan units drive the local air through a particulate or chemical filter and blow it into the breathing zone.

Major user advantages are derived from the excellent mobility,

independence of movement provided by the battery powered filter pack and providing positive over pressure by the fan forcing air into the breathing zone. This eliminates difficulty in breathing associated with negative pressure respirators and reduces the importance of a good facial fit.

Supplied air respirators – long working periods, lower cost

Supplied air respirators provide an ideal solution for workplaces equipped with breathing air

supplies and where freedom of movement is not an issue. Ideal for long work periods and fixed work stations, supplied air respirators offer lower running costs compared to PAPR systems. Supplied air respirators are also recommended where there may be a temporary build-up of gases.

Note: Supplied air sources must meet mandatory local breathable air quality regulations.



PFU 210e

The best protection for your lungs

PFU 210e means 'Powered Filter Unit with a maximum air speed of 210 liters per minute'. Representing the highest level of filtration performance, PFU 210e is available with both Gamma GTH3 and Beta FA respirator systems, so you can be sure of receiving clean and safe air to breathe.

Robust and durable, PFU 210e offers selectable fan speeds of 160 lpm and 210 lpm, battery and filter status indicators, plus a choice of either standard duty or heavy duty batteries. Lithium-Ion battery technology guarantees fast charging times and the power to protect with either particle filter or a combined filter set with the A1B1E1 gas filter. When A1B1E1 gas filter is in use, Smart Sense technology automatically regulates the PFU 210e to air speed 160 lpm, extending filter and battery lifetime. The fast charging battery empowers effectively the work shift as you can operate with a new battery and particle filter for approximately 8 hours (when using SD battery) and 16 hours (when using HD battery).

- 1 Filter cover
- 2 Spark arrester
- 3 Pre-filter
- 4 Particle filter
- 5 Odor filter: Removes unpleasant odors. Optional accessory. Do not use if a gas filter is present.
- 6 Gas filter: Removes gases and vapors



KEMPPI MC-6 MULTICHARGER

Plug-and-play solution

A reliable, plug-and-play solution to secure there are always charged batteries to keep your fresh-air equipment continue to supply safe air. A way to secure productivity by not having to stop welding due to batteries running out of power.

A robust solution that can charge up to six batteries at the same time. No matter if SD and HD batteries are being used. Both versions can be charged at the same time. The MC-6 charger can either be placed on a workbench or mounted to the wall. Signal lights will indicate when a battery is charging by showing a red light. When fully charged and ready to go, the signal is green. No fuss with individual cables to each battery. Just connect the main cord to the power socket, slide the battery into the charging slot and you are up and running.

Kemppi MC-6 Multi-Charger

- 1 to 6pcs of PFU210e's SD or HD batteries can be charged
- SD and HD batteries can be charged at the same time
- SD battery charging time about 1,5h and HD battery 3 hours
- Device automatically doesn't allow charging under temperature of 0 °C
- Ease of use → no need to plug in small connector, just slide battery to its slot
- Signal lights for each batteries telling if battery is charging (red) or full (green led light)
- Can be used on the desk or can be hung on the wall
- MC-6 saves space from desks when no need for 6 pcs of single chargers
- Increase safety when there is not so many single chargers with their cables laying on the floor or benches
- Available with five different kind of mains power cord: EU, UK, DK, AS/NZS, CH



Technical specifications

Input voltage	24 V DC, 12 A DC
Output voltage	12 V - 16.6 V
Charging current	6 x 2.0 A
Over current protection	3.6 A / charger slot
Charging power	6 x 32 W
Weight (charger)	2.5 kg
Weight (power supply)	1.4 kg
Dimensions	500 x 350 x 73 mm
Connector type (1)	XT 60 H - F.G.

Ordering numbers

P0730	Multi-Charger 6 EU
P0731	Multi-Charger 6 UK
P0732	Multi-Charger 6 DK
P0733	Multi-Charger 6 AS/NZS
P0734	Multi-Charger 6 CH

Spare parts

SP9722200	Mains power cord EU
SP9722201	Mains power cord DK
SP9722202	Mains power cord UK
SP9722203	Mains power cord AS/NZS
SP9722204	Mains power cord CH
SP9777650	Power supply (24 V, 300 W)
SP9873700	Multi-Charger 6 unit



RSA 230

Supplied breathing air solution for excellent protection and cost efficiency

RSA 230 regulation valve enables a controlled air flow to the welder's respirator head-top fitted with a fabric face seal, and is supplied together with Gamma and Beta supplied air models. The positive air pressure created inside the head-top controls the ingress of contaminated air to the breathing zone and ensures a supply of clean breathing air. The RSA 230 regulation valve features a replaceable silencer, decreasing audible airflow noise and is mounted to a comfort back pad, secured to the body with a leather belt.

- Supports Gamma and Beta respirators
- Cost efficient alternative to PAPR models
- Recommended for specified environments
- Comfortable and light in weight
- Whistle alarm activates when air flow goes below 160lpm
- Quick release connector to the Airline
- Easily adjusts airflow to the breathing zone
- Must be connected with known breathing air source.



Supplied breathing air solutions offer excellent protection and costs efficiency.



FA FLOW CONTROL

Efficient, lightweight and compact

FA Flow Control is a battery powered filter unit with adjustable motor fan speeds from 140 lpm to 210 lpm. Powered from a Li-ion battery pack and providing protection against particulate contaminants associated with welding and fabrication operations, FA Flow Control offers excellent freedom of movement and breathing protection. You can operate with a new battery and particle filter for approximately 8 hours.

- 140 lpm to 210 lpm air flow regulation
- Status indicators for motor speed, battery and filter
- Li-ion rechargeable battery pack
- Excellent freedom of movement in the workplace
- Supports Delta/Delta+ models only



Filter cover, particle filter and motor unit.



FA PRESSURE FLOW CONTROL

For Delta and Delta+

FA Pressure Flow Control system ensures easy and reliable airflow control and monitoring for Delta and Delta+ hard hat supplied air respirators. The belt mounted airflow regulation valve enables simple air flow adjustment to the breathing zone and is an ideal and cost efficient solution for more static work place locations and applications.

- Supports Delta and Delta+ respirators
- Easy and reliable airflow control
- Belt mounted and light in weight
- Quick release connector to the Airline
- Air monitoring gauge
- Must be connected with known breathing air source



Supplied air solutions are ideal where welding gases may build up displacing breathing air.

FILTERS FOR PAPR

A key component of any respirator is the filter

Filters are divided into gas, particle and combined filters according to the type of protection they provide.

There are standards setting the minimum requirements, test methods and markings for the filters. Gas filters are divided into different types (A, B, E, K etc.) according to the group of substances they are capable of absorbing, and by their absorption capacity they are classified into groups 1, 2 and 3.

Kemppi particle filters in combination with Kemppi PAPR devices provide excellent protection for most welding processes and applications. But your local independent air measurement specialist can provide an air quality report in order for you to accurately select the correct respiratory solution

Kemppi combined filters are divided into gas and particle filters. They have an absorption capacity against organic vapors with boiling points over 65 °C, acid/inorganic gases and vapors, sulfur dioxide. The filtration efficiency is 99,9 % against dust, fumes and mists. Every substance that falls into the above mentioned categories is covered by a Kemppi combined filter set. See the table opposite for further guidance.

- 1 Filter cover
- 2 Spark arrester
- 3 Pre-filter
- 4 Particle filter
- 5 Odor filter: Removes unpleasant odors. Optional accessory. Do not use if a gas filter is present.
- 6 Gas filter: Removes gases and vapors



Protection against particles and gas.

BREATHING AIR DELIVERY SOLUTIONS

Chemical	Filtering devices		Isolating devices
	Particle	Particle & Gas ABE	Supplied air
Aluminum	●	●	●
Argon			●
Beryllium	●	●	●
Bromine		●	●
Cadmium	●	●	●
Carbon Dioxide			●
Carbon Monoxide			●
Chlorine		●	●
Chlorine Dioxide		●	●
Chromium Hexavalent	●	●	●
Copper	●	●	●
Fluorides		●	●
Fluorine		●	●
Helium			●
Isocyanates	●	●	●
Hydrogen Chloride		●	●
Hydrogen Cyanide	●	●	●
Hydrogen Fluoride		●	●
Hydrogen Sulphide		●	●
Iron Oxide	●	●	●
Lead	●	●	●
Magnesium	●	●	●
Manganese	●	●	●
Nickel	●	●	●
Nitrogen Dioxide			●
Nitric Oxide			●
Ozone		●	●
Phosgene			●
Phosphine			●
Silicon Dioxide	●	●	●
Sulfur Dioxide		●	●
Trichloroethylene		●	●
Vanadium Oxide	●	●	●
White Spirit		●	●
Zinc	●	●	●
Zinc Chloride	●	●	●
Zinc Oxide	●	●	●

Note: Gas filters must always be used in combination with a particle filter.

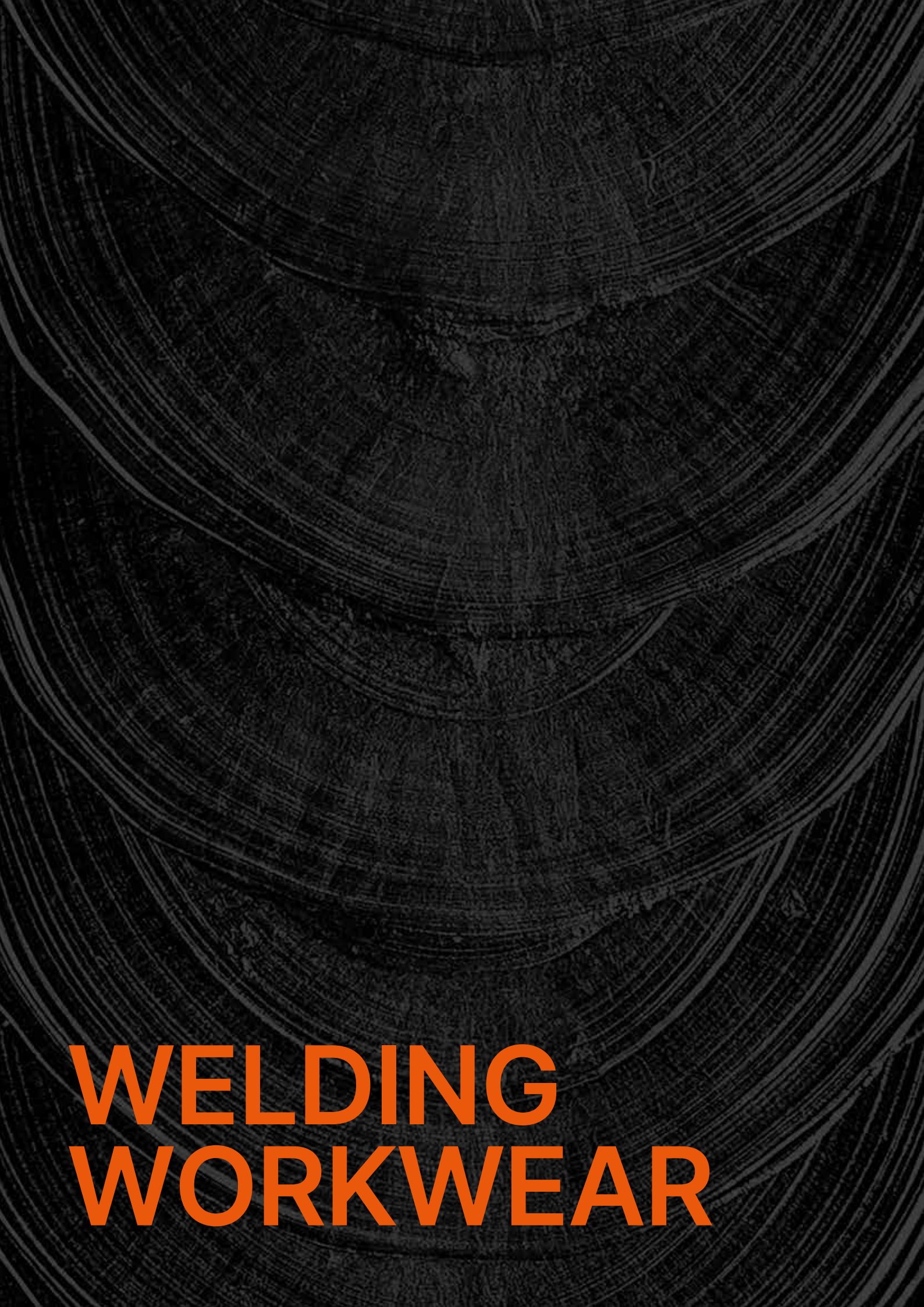
RECOMMENDED MAINTENANCE GUIDE

Item	Check	Frequency	Typical replacement frequency	Note
Clear protection plates	Spatter, scratches, heat damage	Daily	Weekly	Scratches, pitting, spatter, fumes and dirt impair your vision. Replace as necessary.
Clear grinding visor plate	Dirt, fumes and scratches	Daily	Monthly	Wash in warm soapy water and dry with a soft cloth.
Fabric face seals	Holes and hygiene	Daily	3 months	Check for burn holes and tears effecting to respiratory performance.
Breathing tubes and covers	Holes and tears	Daily	Only if damaged or leaking	Breathing tubes should be replaced if holed. Holes and Leaks reduces respiratory protection
Batteries	Charge state	Daily	12 months	Charge batteries daily when in use or at least every four months if in storage.
Safety plates	Scratches	Weekly	3 months	Clean with a soft dry cloth and replace as necessary.
Sweatbands	Hygiene	Weekly	Monthly	Can be washed in warm soapy water - dry before use.
Pre-filters	Contamination	Weekly	Weekly	Pre filters extend particle filter life. Replace as required depending on environment.
Particle filters	Contamination	Weekly	Monthly	Do not attempt to clean particle filter. Replace when necessary and follow the PAPR filter status lights and alarm.
Filter cover	Damage	Weekly	Only if damaged	Always ensure the filter cover and internal spark arrestor plate is correctly fitted.
Gas filters	Contamination	As needed	As needed	A guide to a gas filters life expiration is a change in odour. Gas filter life time is a matter of local contamination levels.

Comparing standards and protection factors

The table below assists understanding of how respiratory protection systems are classified and performance levels defined. Ultimately performance values define total inward leakage of contaminated air to the breathing zone and factors occupational exposure limits for a given concentration of contaminant.

Respirator device	EN12941	Maximum inward leakage %	Nominal Protection Factor (NPF)	Assigned Protection Factors (Values vary between countries, see examples below)	Australia and New Zealand standards for maximum inward leakage	
Powered Air Purifying Respirator (PAPR) fitted with a helmet and fabric face seal	TH1	10 %	NPF = 10	UK = 10 / Finland = 5	P1	5 %
	TH2	2 %	NPF = 50	UK = 20 / Finland = 20	P2	1 %
	TH3	0.2 %	NPF = 500	UK = 40 / Finland = 200	P3	0.05 %



WELDING WORKWEAR



KEMPPI WELDING WORKWEAR

Workwear designed for welders by welders

Kemppi welding workwear collection is engineered with advanced design and certified flame-retardant materials for your ultimate protection and comfort during welding.

Visit website
Scan QR code or
[click here](#)



MAIN BENEFITS



Ultimate protection

Engineered with advanced and certified flame-retardant materials, Kemppli workwear offers superior protection even in the harshest welding environments.



Comfort and durability

With ergonomic design and robust construction, you enjoy long-lasting comfort and durability that withstands the rigors of daily welding.



Trusted quality

Backed by Kemppli's legacy of innovation and excellence in welding technology, our workwear ensures you stay safe and focused on the job.

KEY FEATURES



Made from high-quality ant flame materials

All of the Kemppi welding workwear clothes are made from premium anti-flame material: 80% cotton, 19% polyester, and 1% carbon fiber. The clothing is certified with welding standards EN ISO 11611, EN ISO 11612, and electrostatic EN ISO 1149.



Adjustable for comfortable workwear

The welding workwear is designed with your comfort in mind. The waists, collars, and cuffs are adjustable, as is the width of the trouser legs. The length of the trousers can also be extended by an extra 6 cm. The jackets have pleats in the back to allow movement.



Multifunctional pockets

Unique and functional multifunctional pockets to support your welding work. In addition to normal inside, chest, and side pockets, the workwear includes ID card holders, multitool pockets, caliper pockets, and torch handle pockets, to name a few.



Protect your knees

Knee protectors Kotka can be added to the knee pad pockets of the Work Trousers Lahti, Bib & Braves Oulu, and Work overalls Turku.

WELDING WORKWEAR OVERVIEW



ID card holder inside



Inner Pocket



Torch gun handle pocket





Elastic waist for extra comfort



Calliper and multitool pocket



Legs can be easily extended by extra 6 cm

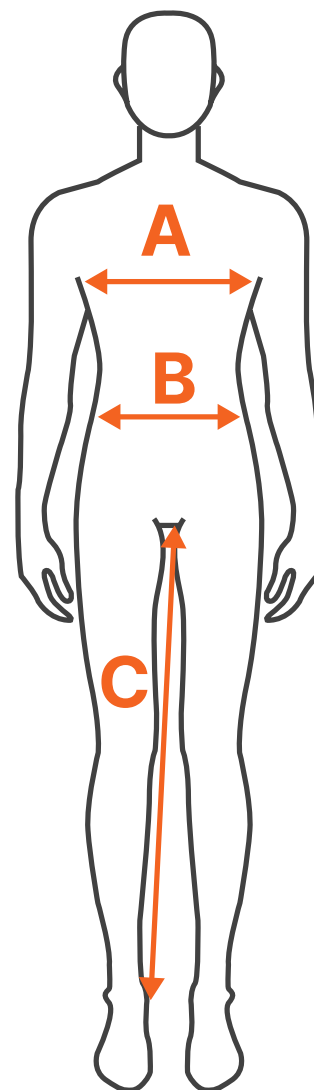


2-level Knee pad pockets

Adjustable legs with velcros



SIZE CHARTS FOR CLOTHES

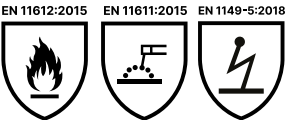


INDICATIVE SIZE GUIDE

SIZE		JACKETS	TROUSERS		TROUSERS	
		WORK OVERALLS	BIB & BRACES		BIB & BRACES	
		1/2 CHEST [CM]	WAIST [CM]	WAIST [INCH]	INSEAM [CM]	INSEAM [INCH]
EU	NUMERIC	A	B		C	
XS	46/80	46	70-80	28-32	70,5	28
S	48/85	48	75-85	30-34	73,5	29
M	50/92	50	82-92	32-36	76,5	30
L	54/98	52-54	88-98	35-39	76,5	30
XL	56/106	56	96-106	38-42	77,5	31
2XL	60/114	58-60	104-114	41-45	77,5	31
3XL	62/122	62	112-122	44-48	78,5	31
4XL	66/128	64-66	118-128	47-51	78,5	31
5XL	68/134	68	124-134	48-52	78,5	31

WORK JACKET HELSINKI

Work jacket Helsinki is a premium flame-retardant jacket designed to offer superior protection in the harshest welding environments. The jacket has many multifunctional pockets, including an inside pocket, chest pockets, and two side pockets. The collar, cuffs, and waist can be adjusted with flame-retardant velcro. Made from 80% cotton, 19% polyester and 1% carbon fiber. The jacket is certified with welding standards EN ISO 11611, EN ISO 11612, and electro-static EN ISO 1149. Available in sizes XS-5XL.



Technical data

Materials	19% polyester, 1% carbon fiber, 80% cotton
Standards	EN ISO 13688:2013+A1:2021, EN 1149-5:2018, EN ISO 11612:2015 A1+A2 B1 C1 E1 F1, EN ISO 11611:2015 Class1 A1+A2 and EN 14404:2004+A1:2010

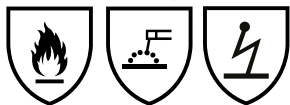
Product code		Size
KWW011001046	Work Jacket Helsinki	XS
KWW011001048	Work Jacket Helsinki	S
KWW011001050	Work Jacket Helsinki	M
KWW011001054	Work Jacket Helsinki	L
KWW011001056	Work Jacket Helsinki	XL
KWW011001060	Work Jacket Helsinki	2XL
KWW011001062	Work Jacket Helsinki	3XL
KWW011001066	Work Jacket Helsinki	4XL
KWW011001068	Work Jacket Helsinki	5XL

LONG JACKET PORVOO

Long work jacket Porvoo is a premium flame-retardant long jacket designed to offer superior protection in different welding environments. It is a great alternative to the apron, and an excellent option for welding schools and demonstrations. The jacket has many multifunctional pockets, including an inside pocket, two velcro-closing chest pockets, and two bottom pockets. The collar and cuffs can be adjusted with flame-retardant velcro, and the sides can be opened with zippers. Made from 80% cotton, 19% polyester, and 1% carbon fiber. The jacket is certified with welding standards EN ISO 11611, EN ISO 11612, and electrostatic EN ISO 1149. Available in sizes XS-5XL.



EN 11612:2015 EN 11611:2015 EN 1149-5:2018



Technical data

Materials	19% polyester, 1% carbon fiber, 80% cotton
Standards	EN ISO 13688:2013+A1:2021, EN 1149-5:2018, EN ISO 11612:2015 A1+A2 B1 C1 E1 F1, EN ISO 11611:2015 Class1 A1+A2 and EN 14404:2004+A1:2010

Product code	Size	
KWW011101046	Long Jacket Porvoo	XS
KWW011101048	Long Jacket Porvoo	S
KWW011101050	Long Jacket Porvoo	M
KWW011101054	Long Jacket Porvoo	L
KWW011101056	Long Jacket Porvoo	XL
KWW011101060	Long Jacket Porvoo	2XL
KWW011101062	Long Jacket Porvoo	3XL
KWW011101066	Long Jacket Porvoo	4XL
KWW011101068	Long Jacket Porvoo	5XL

WORK TROUSERS LAHTI

Work trousers Lahti are premium flame-retardant trousers designed to offer superior protection even in the harshest welding environments. They are comfortable to wear due to their elastic waist and have wider belt loops to fit the Kemppi Fresh Air system leather belt. The trousers are easily adjustable; the legs can be extended by an extra 6 cm, and the width of the legs can be adjusted with flame-retardant velcro. The trousers have many multifunctional pockets, such as the caliper and torch handle pockets, multitool pockets, and pockets for knee pads (sold separately; see knee protectors Kotka). Made from 80% cotton, 19% polyester, and 1% carbon fiber. The trousers are certified with welding standards EN ISO 11611, EN ISO 11612, and electrostatic EN ISO 1149. Available in sizes XS-5XL.



EN 11612:2015 EN 11611:2015 EN 1149-5:2018



Technical data

Materials	19% polyester, 1% carbon fiber, 80% cotton
Standards	EN ISO 13688:2013+A1:2021, EN 1149-5:2018, EN ISO 11612:2015 A1+A2 B1 C1 E1 F1, EN ISO 11611:2015 Class1 A1+A2 and EN 14404:2004+A1:2010

Product code		Size
KWW012001080	Work Trousers Lahti	XS
KWW012001085	Work Trousers Lahti	S
KWW012001092	Work Trousers Lahti	M
KWW012001098	Work Trousers Lahti	L
KWW012001106	Work Trousers Lahti	XL
KWW012001114	Work Trousers Lahti	2XL
KWW012001122	Work Trousers Lahti	3XL
KWW012001128	Work Trousers Lahti	4XL
KWW012001134	Work Trousers Lahti	5XL

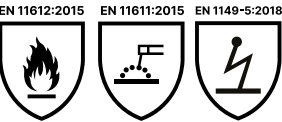
Knee Protectors Kotka

- KWW000001



BIB & BRACES OULU

Bib and braces Oulu are premium flame-retardant workwear designed to offer superior protection even in the harshest welding environments. They are comfortable to wear due to the adjustable waist and braces. Legs can be extended by an extra 6 cm, and the width of the legs can be adjusted with flame-retardant velcro. The bib & braces have many multifunctional pockets, such as the caliper and torch handle pockets, multitool pockets, and pockets for knee pads (sold separately; see knee protectors Kotka). Made from 80% cotton, 19% polyester, and 1% carbon fiber. The trousers are certified with welding standards EN ISO 11611, EN ISO 11612, and electrostatic EN ISO 1149. Available in sizes XS-5XL.



Technical data

Materials	19% polyester, 1% carbon fiber, 80% cotton
Standards	EN ISO 13688:2013+A1:2021, EN 1149-5:2018, EN ISO 11612:2015 A1+A2 B1 C1 E1 F1, EN ISO 11611:2015 Class1 A1+A2 and EN 14404:2004+A1:2010

Product code		Size
KWW013001080	Bib & Braces Oulu	XS
KWW013001085	Bib & Braces Oulu	S
KWW013001092	Bib & Braces Oulu	M
KWW013001098	Bib & Braces Oulu	L
KWW013001106	Bib & Braces Oulu	XL
KWW013001114	Bib & Braces Oulu	2XL
KWW013001122	Bib & Braces Oulu	3XL
KWW013001128	Bib & Braces Oulu	4XL
KWW013001134	Bib & Braces Oulu	5XL

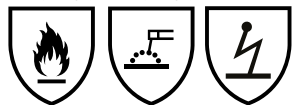
Knee Protectors Kotka	
• KWW000001	

WORK OVERALLS TURKU

Work overalls Turku are premium flame-retardant workwear designed to offer superior protection in the harshest welding environments. The overalls are comfortable to wear due to the elastic waist. The collar and width of the trouser legs can be adjusted with velcro. Legs can also be extended by an extra 6 cm. Pleats and elastic in the back ensure comfort. Overalls have many multifunctional pockets, such as inner pocket, caliper and torch handle pockets, multitool pockets, and pockets for knee pads (sold separately; see knee protectors Kotka). Made from 80% cotton, 19% polyester, and 1% carbon fiber. Overalls are certified with welding standards EN ISO 11611, EN ISO 11612, and antistatic EN ISO 1149. Available in sizes XS-5XL. Designed by welders for welders.



EN 11612:2015 EN 11611:2015 EN 1149-5:2018



Technical data

Materials	19% polyester, 1% carbon fiber, 80% cotton
Standards	EN ISO 13688:2013+A1:2021, EN 1149-5:2018, EN ISO 11612:2015 A1+A2 B1 C1 E1 F1, EN ISO 11611:2015 Class1 A1+A2 and EN 14404:2004+A1:2010

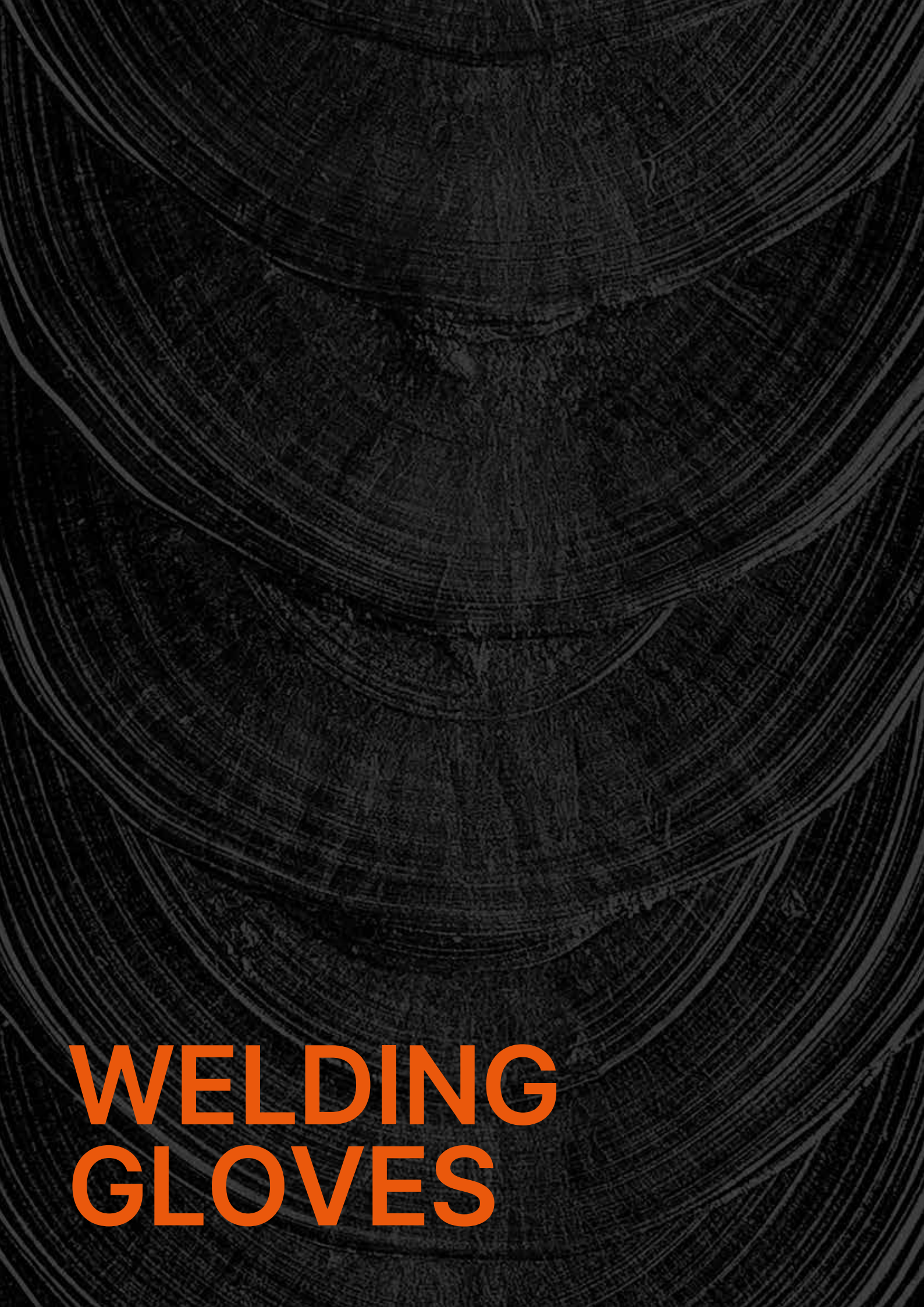
Product code		Size
KWW014001046	Work Overalls Turku	XS
KWW014001048	Work Overalls Turku	S
KWW014001050	Work Overalls Turku	M
KWW014001054	Work Overalls Turku	L
KWW014001056	Work Overalls Turku	XL
KWW014001060	Work Overalls Turku	2XL
KWW014001062	Work Overalls Turku	3XL
KWW014001066	Work Overalls Turku	4XL
KWW014001068	Work Overalls Turku	5XL

Knee Protectors Kotka

- KWW000001







WELDING GLOVES



KEMPPI GLOVES FOR WELDING AND FABRICATION

Welding gloves from the welding specialists

Kemppi welding gloves have been developed with Kemppli's uncompromising design integrity and safety standards, with high-quality materials for excellent functionality.

Visit website
Scan QR code or
[click here](#)



MAIN BENEFITS



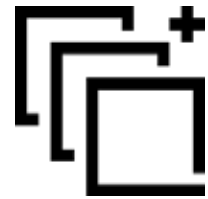
Safety

Designed with Kemppi's commitment to safe welding, ensuring protection against heat, sparks, and abrasions.



Functionality

Meticulously designed for maximum dexterity and functionality.



Variety

Two lines for different welding applications with a wide size selection.

KEY FEATURES



Gloves for all welding needs

The comprehensive range of Kemppli welding gloves ensures you'll find a pair suitable for all welding needs, from general tasks in the workshop to the hottest and most demanding welding work.



Heat protection

Fully insulated gloves like the Pro MAG TACK Glove offer excellent heat protection for high-temperature welding tasks.



Reinforced wear points

Strategically reinforced areas to enhance durability and extend glove life.



Wide size selection

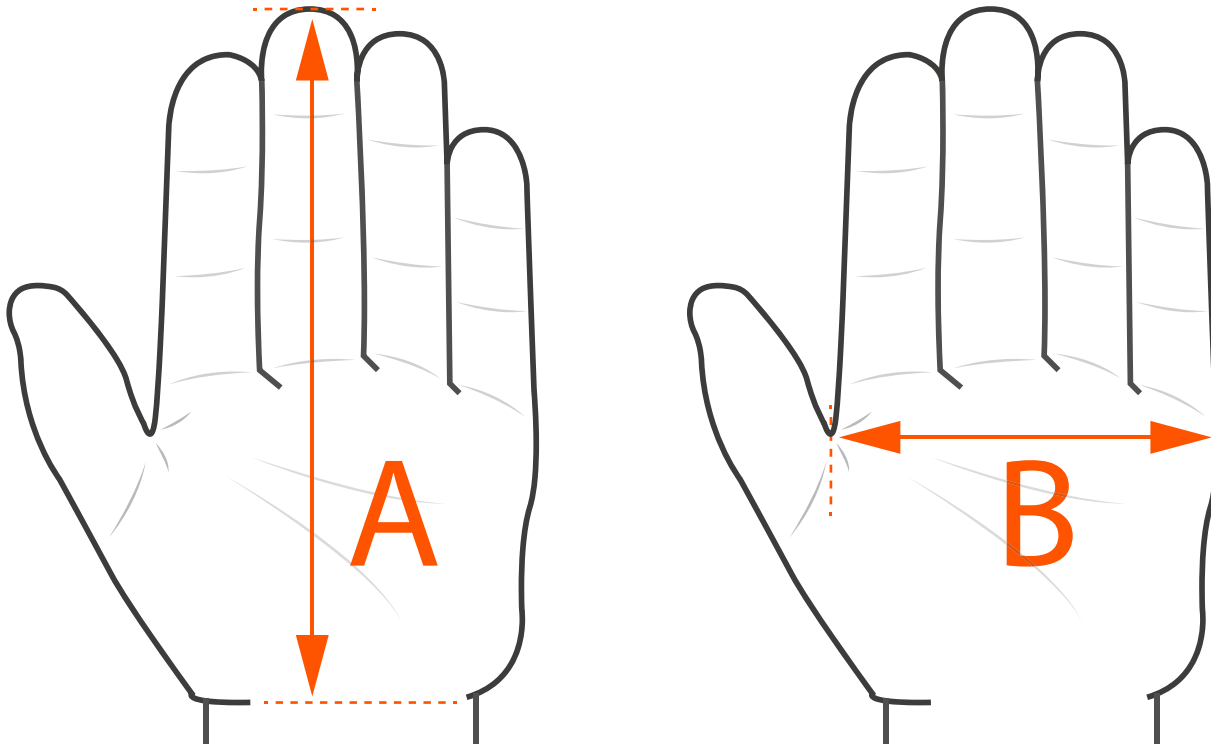
Available in a broad range of sizes to ensure a comfortable fit for all users.

MAIN FEATURES

- Top quality split and full-grain leather
- Multi-layer design for optimal protection and insulation
- Para-amid stitching
- Reinforced knuckle protection
- Elastic wrist for a snug fit



SIZE CHART FOR GLOVES



A	LENGHT, CM	SIZE	B	WIDTH, CM
	17 - 18	Small (S)		7,5 - 8,5
	18 - 19	Medium (M)		8,5 - 9,5
	19 - 20	Large (L)		9,5 - 10,5
	20 - 21	X-Large (XL)		10,5 - 11,5
	21 - 22	XX-Large (XXL)		11,5 - 12,5

KEMPPI SIZE	A	FINGER LENGHT, CM	B	PALM WIDTH, CM
S7		< 17		< 7.5
S8		17.0 - 18.0		7.5 - 8.5
S9		18.0 - 19.0		8.0 - 9.0
S10		18.5 - 19.5		8.5 - 9.5
S11		19.0 - 20.5		9.5 - 10.5
S12		> 20.5		> 10.5

PRO MAG/TACK WELDING GLOVE

For when the going gets hot. Fully insulated glove for hotter welding work. Provides good heat protection and durability yet is soft and flexible enough for the smooth operation of welding machines and torches. Reinforced at wear points for an extended lifetime.



EN 388:2016 EN 407:2020



Technical data

Materials	Buffalo leather, Cow split leather 0.9–1.1 mm, Cow split leather 1.2–1.4 mm
Glove category	Cat. 2
Standards	EN ISO 21420
EN 388	2322X
EN 407	413X4X
EN 12477	Type A

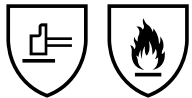
Product code		Size
KGPM1S7	Pro MAG/TACK Welding Glove	7
KGPM1S8	Pro MAG/TACK Welding Glove	8
KGPM1S9	Pro MAG/TACK Welding Glove	9
KGPM1S10	Pro MAG/TACK Welding Glove	10
KGPM1S11	Pro MAG/TACK Welding Glove	11
KGPM1S12	Pro MAG/TACK Welding Glove	12

PRO MIG WELDING GLOVE

Get a glove that can do both. Partially insulated for both high heat protection and dexterity. A perfect mix between heat protection and dexterity, with a snug fit for good control of torch and equipment. Base of hand reinforced for extended lifetime.



EN 388:2016 EN 407:2020



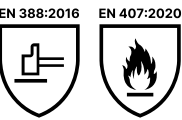
Technical data

Materials	Buffalo leather, Cow split leather 0.9–1.1 mm, Cow split leather 1.2–1.4 mm
Glove category	Cat. 2
Standards	EN ISO 21420
EN 388	2122X
EN 407	412X4X
EN 12477	Type A

Product code		Size
KGPM2S7	Pro MIG Welding Glove	7
KGPM2S8	Pro MIG Welding Glove	8
KGPM2S9	Pro MIG Welding Glove	9
KGPM2S10	Pro MIG Welding Glove	10
KGPM2S11	Pro MIG Welding Glove	11
KGPM2S12	Pro MIG Welding Glove	12

PRO TIG WELDING GLOVE

The “never take your glove off” glove – a full leather glove for when the direct feeling is the most important feature. Thin, yet durable and protective, with a snug fit for good fingertip sensitivity.



Technical data

Materials	Buffalo leather, Cow split leather 0.9–1.1 mm, Cow split leather 1.2–1.4 mm
Glove category	Cat. 2
Standards	EN ISO 21420
EN 388	2122X
EN 407	412X4X
EN 12477	Type B

Product code		Size
KGPM3S7	Pro TIG Welding Glove	7
KGPM3S8	Pro TIG Welding Glove	8
KGPM3S9	Pro TIG Welding Glove	9
KGPM3S10	Pro TIG Welding Glove	10
KGPM3S11	Pro TIG Welding Glove	11
KGPM3S12	Pro TIG Welding Glove	12

PRO FABRICATOR GLOVE

The multitasker of the workshop: an unlined short glove perfect for general tasks, grinding, and finishing. This short glove model combines durable leather with spark-withstanding mod acrylic, with a Velcro strap for the perfect fit.



EN 388:2016 EN 407:2020



Technical data

Materials	Buffalo leather, Cow split leather 0.9–1.1 mm, Meta aramid
Glove category	Cat. 2
Standards	EN ISO 21420
EN 388	2122X
EN 407	N/A
EN 12477	No type

Product code		Size
KGPM4S7	Pro FABRICATOR Glove	7
KGPM4S8	Pro FABRICATOR Glove	8
KGPM4S9	Pro FABRICATOR Glove	9
KGPM4S10	Pro FABRICATOR Glove	10
KGPM4S11	Pro FABRICATOR Glove	11
KGPM4S12	Pro FABRICATOR Glove	12

PRO WINTER GLOVE

This traditional welding glove is for the coldest temperatures. It features a 3M Thinsulate® lining for protection against cold and a Kevlar lining on the palm and top of the hand for a proper cut protection level. The snug fit ensures good dexterity and control of your welding equipment, and the insulation keeps your fingers protected from heat and cold.



Technical data

Materials	Cotton piping, Cow split leather 1–1.2 mm, Cow split leather 1.2–1.4 mm, Goat crust leather 0.7–0.8 mm
Glove category	Cat. 2
Standards	EN12477:2001+A1:2005
EN 388	3523D
EN 407	413X4X
EN 511	24X
EN 12477	Type A

Product code		Size
KGPM9S7	Pro Winter Glove	7
KGPM9S8	Pro Winter Glove	8
KGPM9S9	Pro Winter Glove	9
KGPM9S10	Pro Winter Glove	10
KGPM9S11	Pro Winter Glove	11
KGPM9S12	Pro Winter Glove	12

PRO WINTER LOBSTER GLOVE

Stay cozy even in the harshest winter chills! These innovative gloves feature a unique lobster-claw shape, combining your fingers into a semi-mitten design that creates a snug “air pocket” of warmth. While your three outer fingers huddle in their compartments within a more extensive, insulated space, your hands retain more heat than traditional gloves. With a super-soft, insulated interior, these gloves are the ultimate cold-weather welding glove companion, combining the warmth of mittens with the dexterity of gloves.



Technical data

Materials	Cow split leather 1–1.2 mm, Cow split leather 1.2–1.4 mm, Goat crust leather 0.7–0.8 mm
Glove category	Cat. 2
Standards	EN12477:2001+A1:2005
EN 388	3523D
EN 407	413X4X
EN 511	24X
EN 12477	Type A

Product code		Size
KGPM10S7	Pro Winter Lobster Glove	7
KGPM10S8	Pro Winter Lobster Glove	8
KGPM10S9	Pro Winter Lobster Glove	9
KGPM10S10	Pro Winter Lobster Glove	10
KGPM10S11	Pro Winter Lobster Glove	11
KGPM10S12	Pro Winter Lobster Glove	12

PRO HEAT CUT GLOVE

Built for extreme welding conditions, these premium gloves deliver outstanding heat resistance combined with the highest level F cut protection for maximum safety and confidence in heavy-duty work.



EN 388:2016 EN 407:2020



Technical data

Materials	Cow split leather 1.2–1.4 mm
Glove category	Cat. 2
EN 388	2X42F
EN 407	413X4X
EN 12477	Type A

Product code		Size
KGPM13S7	Pro Heat Cut Glove	7
KGPM13S8	Pro Heat Cut Glove	8
KGPM13S9	Pro Heat Cut Glove	9
KGPM13S10	Pro Heat Cut Glove	10
KGPM13S11	Pro Heat Cut Glove	11
KGPM13S12	Pro Heat Cut Glove	12

CRAFT MAG/TACK WELDING GLOVE

Soft yet durable: fully insulated glove for hotter welding work, made from quality split leather. Elastic at the wrist secures a good fit. Extra back of hand insulation for added heat protection.



EN 388:2016 EN 407:2020



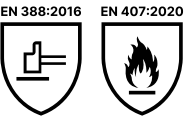
Technical data

Materials	Cow split leather 1–1.2 mm
Glove category	Cat. 2
Standards	EN ISO 21420
EN 388	3244X
EN 407	412X4X
EN 12477	Type A

Product code		Size
KGSM5S7	Craft MAG/TACK Welding Glove	7
KGSM5S8	Craft MAG/TACK Welding Glove	8
KGSM5S9	Craft MAG/TACK Welding Glove	9
KGSM5S10	Craft MAG/TACK Welding Glove	10
KGSM5S11	Craft MAG/TACK Welding Glove	11
KGSM5S12	Craft MAG/TACK Welding Glove	12

CRAFT MIG WELDING GLOVE

The ideal mix: a partially insulated glove that offers both good dexterity and good heat protection.



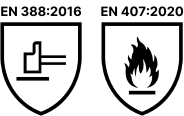
Technical data

Materials	Buffalo leather, Cow split leather 1–1.2 mm
Glove category	Cat. 2
Standards	EN ISO 21420
EN 388	2121X
EN 407	412X4X
EN 12477	Type B

Product code		Size
KGSM6S7	Craft MIG Welding Glove	7
KGSM6S8	Craft MIG Welding Glove	8
KGSM6S9	Craft MIG Welding Glove	9
KGSM6S10	Craft MIG Welding Glove	10
KGSM6S11	Craft MIG Welding Glove	11
KGSM6S12	Craft MIG Welding Glove	12

CRAFT TIG WELDING GLOVE

For when the feeling is essential. Unlined glove for high dexterity and fingertip sensation. A snug fit in quality leather.



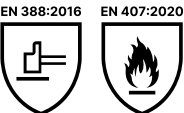
Technical data

Materials	Buffalo leather, Cow split leather 1–1.2 mm
Glove category	Cat. 2
Standards	EN ISO 21420
EN 388	2121X
EN 407	412X4X
EN 12477	Type B

Product code		Size
KGSM7S7	Craft TIG Welding Glove	7
KGSM7S8	Craft TIG Welding Glove	8
KGSM7S9	Craft TIG Welding Glove	9
KGSM7S10	Craft TIG Welding Glove	10
KGSM7S11	Craft TIG Welding Glove	11
KGSM7S12	Craft TIG Welding Glove	12

CRAFT FABRICATOR GLOVE

A glove for the grind: unlined full leather short glove perfect for general tasks in the workshop. Supple and durable, with a split leather back of hand for good spark protection.



Technical data

Materials	Buffalo leather, Cotton piping, Cow split leather 0.9–1.1 mm
Glove category	Cat. 2
Standards	EN ISO 21420
EN 388	2121X
EN 407	N/A

Product code		Size
KGSM8S7	Craft FABRICATOR Glove	7
KGSM8S8	Craft FABRICATOR Glove	8
KGSM8S9	Craft FABRICATOR Glove	9
KGSM8S10	Craft FABRICATOR Glove	10
KGSM8S11	Craft FABRICATOR Glove	11
KGSM8S12	Craft FABRICATOR Glove	12





CERTIFIED PROTECTION FOR THE EYES AND FACE

Personal protective equipment must be certified in compliance with specified standards before being placed on the market. Kemppi personal protective equipment meets European standards and is CE marked. Models marked accordingly also meet the defined standards for Australia and New Zealand.

PPE product selection table

Correct product selection is essential to provide the best protection and performance for your personal needs and application.

Protection for the eyes and face

EN 166, EN 175, and EN 379 were withdrawn and replaced by EN ISO 16321-1 General requirements and EN

ISO 16321-2 Additional requirements for protectors used during welding.

EN ISO 16321-1 defines the optical properties of the visor and resistance to high-speed particles given as C (45m/s), D (80m/s), and E (120m/s). EN ISO 16321 series does not classify visors based on their optical quality, but manufacturers can test and apply for Enhanced Optical Properties, which are marked as number 1.

Physical and mechanical protection properties of welding helmet are defined at EN ISO 16321-2, including electrical insulation, resistance to penetration by hot solids, light tightness, and drop robustness.

For automatic welding filters, the old 1/1/1/1

classification has been replaced by V1, V2, or V3 marking, which tells the angular dependency class of the ADF; the lower the number, the better. The angular dependency measures how well the ADFs shade level stays consistent when viewed at different angles. For passive welding filters, the scale (shade) number is given as W8, W9, or W10, for example.

Standards for powered air respirators

Welding helmets and visors fitted with a fabric face seal and supplied with filtered air from a battery-powered filtering device are defined in the European standard EN 12941, which lists three levels of protection performance: TH1, TH2, and TH3. The number references define the product's level of inward leakage performance and the mechanical strength of hose couplings. Products certified as TH1 have a maximum inward leakage to the breathing zone of 10 %, TH2 products have a maximum inward leakage of 2 %, and TH3 products offer the best respiratory protection with a maximum inward leakage of 0.2 %.

Particle and gas filters

The performance of particle filters fitted to powered air respirators is classified together with the complete filtering device under EN 12941. However, the performance of gas filters is defined by letters, numbers, and a color-coded system that indicates the performance level and the gases the filter protects against. The letters represent 'A' for organic, 'B' for inorganic, and 'E' for acid gases, and numbers '1, 2, or 3 indicate the filters' capacity, either low, medium, or high capacity.

Head protection

Helmets certified to EN 397 provide protection against falling objects, which can cause brain injury or skull fractures.

Hand protection

EN 12477 is a standard for protective gloves used in welding. It defines test requirements for welding gloves and separates them into Type A and Type B. In general, Type A has less dexterity but more heat protection, and Type B has more dexterity but less heat protection.

EN ISO 21420 specifies the general requirements for protective gloves. This standard applies to all types of gloves designed to protect hands against risks, regardless of the specific hazard (mechanical, chemical, thermal, etc.). It sets the baseline for safety, comfort, and performance testing.



EN 407 certified gloves give protection against thermal risks. If gloves are EN 407 pictogram depicting a flame should be found somewhere from the glove. Under the pictogram can be found six numbers which tell the protection level of the glove, higher the number, better the protection level. If test has not been applicable, then it is marked with X.

A. Limited flame spread	0 - 4
B. Contact heat	0 - 4
C. Convective heat	0 - 4
D. Radiant heat	0 - 4
E. Small splashes of molten metal	0 - 4



The EN 388 certified gloves give protection against mechanical risks such as abrasion, blade cut, tear and puncture. If the gloves are certified against EN 388, the corresponding pictogram with applicable performance levels should be visible somewhere on the glove and X means test is not performed. For cut protected gloves the performance level is marked last under pictogram from levels A to F. Higher number or letter indicates better protection level.

A. Abrasion resistance	0 - 4
B. Blade cut resistance	0 - 5
C. Tear resistance	0 - 4
D. Puncture resistance	0 - 4
E. TDM: cut resistance	A - F



EN 511 specifies the requirements and test methods for protective gloves against cold. It applies to gloves that

protect hands from convective cold (cold air), contact cold (touching cold surfaces), and water penetration at low temperatures. The standard is commonly used for industrial processes, outdoor work, cold storage, refrigeration, and winter handling.

Gloves certified to EN 511 are marked with a snowflake symbol and three numbers. The higher number represents better protection.

A. Convective cold	0 - 4
B. Contact cold	0 - 4
C. Water penetration	0 = water penetrates within 30 minutes 1 = no water penetration

Protective clothing

EN ISO 11611 specifies the minimum basic safety requirements and test methods for protective clothing used for welding and allied processes (hoods, aprons, sleeves, and gaiters). Certified protective clothing protects the wearer from molten metal splashes, short contact with flames, and heat from welding arcs. It also reduces the risk of electric shock from accidental brief contact with electrical conductors up to about 100 V. The clothing is divided into two protection classes:

- Class 1 clothing is intended for lower-risk welding activities such as TIG, MIG, and MMA welding, as well as soldering, spot welding, and gas welding.
- Class 2 clothing is designed for higher-risk welding processes, like MMA, MAG, MIG welding, plasma cutting, and gouging. Class 2 provides enhanced protection against sparks, molten metal splashes, and higher levels of heat radiation.

The appropriate protection class should be selected based on the welding technique being used.

Clothing labels must clearly show the protection level and care instructions. The pictogram is shown with the standard number/year, protection class (1 or 2), and limited flame spread rating (A1 or A1 + A2).



EN ISO 11612 sets requirements for protective clothing designed to protect the wearer from heat and flame outside of firefighting operations. It mainly applies to

industrial work where people are exposed to flames, radiant or convective heat, or molten metal splashes.



- | |
|---------------------------------------|
| A. Limited flame spread (A1 or A1+A2) |
| B. Convective heat (B1 to B3) |
| C. Radiant Heat (C1 to C4) |
| D. Molten aluminium splash (D1 to D3) |
| E. Molten Iron splash (E1 to E3) |
| F. Contact heat (F1 to F3) |

Compliance with EN ISO 11612 ensures that workers exposed to heat and flame hazards are adequately protected by garments that are tested, classified, and marked according to their ability to resist specific types of heat.

The standard uses code letters to show performance for each type of heat exposure:

EN ISO 13688 Protective clothing – General requirements identifies the general requirements for protective clothing. It gives basic design and safety rules that all protective clothing should follow before applying hazard-specific standards. This standard is not used alone but always with another standard that defines protection for a specific hazard.

EN 1149-5 Protective clothing. Electrostatic properties. Part 5: Material performance and design requirements is a European standard for protective clothing with electrostatic properties. The standard explains the rules for making electrostatic dissipative protective clothing, including hoods and caps. The rules for clothing do not cover extra equipment you might wear or carry, like breathing gear, gloves or shoes that are not part of clothing.

Also, clothing may not give enough protection in areas with high oxygen and flammable gases.

Marking shall include the graphical symbol with standard designation.



Type 1	independent protectors that fasten around the leg
Type 2	foam plastic or other padding material in pockets on trouser legs, or permanently attached to trousers
Type 3	devices not attached to the body, placed as the user moves
Type 4	knee protectors for one or both knees, which are parts of devices with additional functions such as a frame to aid standing up, or a kneeling seat. The knee protectors may be worn on the body or be independent

EN 14404 Personal protective equipment – Knee protectors for work in the kneeling position specifies requirements, testing, and marking of knee protection used in occupational settings. Knee protectors are divided into four types:

Performance levels are:

Performance level 0	for flat floors only, no penetration protection
Performance level 1	flat or uneven floors, protects against penetration of 100 ± 5 N
Performance level 2	flat or uneven floors, severe conditions, protects against penetration of 250 ± 10 N

A knee protector shall be marked with the standard number, type, and class. A graphic symbol may only be used for knee protectors that have passed penetration resistance testing.

Standards for supplied air respirators

Supplied air respirators offer lower running costs compared to PAPR systems and are also recommended where there may be a temporary build-up of welding fumes.

Welder's respirators connected with a breathable air supply from a compressor meeting EN 12021 are defined under EN 14594. Kemppi welder's respirators must only be used in areas where the oxygen content exceeds 17% and must not be used as self-contained breathing apparatus, or for escape purposes.

Protection factors

The occupational exposure limit of general welding fumes is 5 mg/m^3 . OEL = the level of air contamination where respiratory protection is recommended under EN standards. (Levels and factors stated may differ in other regions.)

A respirator with a protection factor of 10 will provide protection up to $10 \times 5 \text{ mg/m}^3 = 50 \text{ mg/m}^3$ provided that 50 mg/m^3 is still below the IDLH of the given substance (IDLH= Immediately Dangerous to Life and Health).

The nominal protection factors assigned by the European Standard Authorities to a class of respirators (PAPR or supplied air device fitted with hood or helmet under EN12941), define a Nominal Protection Factor (NPF) based on the tested 3inward leakage efficiency of the respirator device.

DESIGNED FOR WELDERS

Kemppi is a global design leader in the arc welding industry, dedicated to enhancing welding quality and productivity through continuous technological innovation. We are committed to sustainable practices and advancing a greener, more equitable world. Kemppi provides high-quality welding solutions, including responsible products, digital innovations, and professional services for a diverse customer base, from large-scale industrial welding companies to individual contractors. Reliability and usability are the cornerstones of our product philosophy. With an extensive partner network spanning over 70 countries, we ensure local expertise and support worldwide. Headquartered in Lahti, Finland, Kemppi employs approximately 600 professionals across 16 countries.

Kemppi – Designed for welders



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