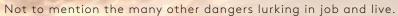




There are situations where you have to be able to rely one hundred percent on your protective equipment. Our products in the Heat, Splashes & Welding category offer the highest level of safety whenever things get hot – in direct contact with sparks and splashes of liquid metal as well as in extreme heat exposure.







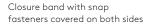
Mainly perfect for classical welding work – and now with additional protection against liquid iron. The PROBAN® cotton is particularly strong and made with a unique FR equipment, offering high wearing comfort and breathability. It provides welders with reliable protection against heat, sparks and welding splatters according to EN ISO 11611. The flame resistance persists even after repeated laundry and cleaning cycles.

ITEM	COLOUR	COLOUR NO.	COLOUR NAME			P P P P P P P P P P P P P P P P P P P	REGULAR SIZES
1 , 2 , 3		52	medium grey	EN ISO 11611 Class 2 A1	EN ISO 11612 A1/B1/C1/E3/F1	ISO 15797	46-58 & 94-110

 $\textbf{FIELDS OF APPLICATION:} \ \textbf{Steel works, metalworking industry, welding companies,} \\$

plant construction, foundries







Sleeve hem width adjustable via snap fasteners covered inside

JACKET

Welding protection class 2 Part number: **01272 10046 000 52** Garment weight: approx. 895 g Fabric weight: approx. 470 g/m²

Single-coloured • turn-down collar • closure band with snap fasteners on both sides • 1 chest pocket on the left and 2 side pockets, each reinforced and with flap and covered snap fastener • 1 inner front pocket on the right • sleeve hem width adjustable via covered inner snap fasteners • embroidered flame-retardant standard pictograms on the front.

HEAT, SPLASHES & WELDING



TROUSERS

Welding protection class 2 Part number: **01272 20084 003 52** Garment weight: approx. 905 g Fabric weight: approx. 470 g/m2

Single-coloured • added waistband with covered buttoning • covered button fly • 2 slant pockets • 1 hip pocket on the right with flap and covered snap fastener and 1 ruler pocket on the right, each reinforced.



BIB AND BRACE TROUSERS

Welding protection class 2 Part number: **01272 50062 001 52** Garment weight: approx. 1,105 g Fabric weight: approx. 470 g/m²

Single-coloured • stretch braces with clamp-on clips • straight kidney protection • 1 bib pocket and 1 reinforced hip pocket on the right, each with flap and covered snap fastener • covered button fly • 2 side seam pockets and 1 ruler pocket on the right, each reinforced.



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i.....i



MATERIAL: 100 % COTTON ·

FABRIC WEIGHT: approx. $470 \, g/m^2$

HB-WeldersFORCE®

Modern and comfortable PPE in several colour combinations:
With HB-WeldersFORCE®, we are adding two specialised fabrics for welding protection to our range.
Two qualities for flexible use: a 450 g/m² version for permanent welding work with larger amounts of sparks and higher radiant heat, and a lighter 350 g/m² version for occasional welding work with smaller sparks.

ITEM	COLOUR	COLOUR NO.	COLOUR NAME	MATERIAL WEIGHT			4	PR OBS OBS OBS OBS	REGULAR SIZES
		2027 2041	royal/navy navy/royal	350 g/m²		EN ISO 11611 Class 1 A1+A2			
1		2043 2382	navy/medium grey anthracite/medium grey	450 g/m²	EN ISO 11612 A1+A2/B1/C1/ E2/F1	EN ISO 11611 Class 2 A1+A2	EN 1149-5	ISO 15797	46-58 & 94-110
2		45	navy	350 g/m²	: :	EN ISO 11611 Class 1 A1+A2			
. ZI		58	anthracite	450 g/m²	··············	EN ISO 11611 Class 2 A1+A2		: :	

FIELDS OF APPLICATION: Steel works, metalworking industry, plant construction



Specially arranged pockets make it easier to reach in with gloves

BLOUSON 350

Welding protection class 1

Part number: **01144 10000 015 + COLOUR NO.**

Garment weight: 820g

BLOUSON 450

Welding protection class 2

Part number: 01209 10000 015 + COLOUR NO.

Garment weight: 1.070g

Two-coloured • stand-up collar • front with snap fasteners, covered on both sides • 2 breast pockets and 2 integrated side pockets, each with flap and covered snap fastener • FR let-in collar • sleeve hem width adjustable with plastic snap fastener • standard pictograms as FR direct embroidery on the front • manufactured in roof tile design.









2 Attached knee pockets and the free-hanging folding rule pocket make it easier to work when kneeling



Elastic waistband



2



TROUSERS 350

Welding protection class 1

Part number: **01144 20000 012 + COLOUR NO.**

Garment weight: 765g

TROUSERS 450

Welding protection class. 2

Part number: 01209 20000 012 + COLOUR NO.

Garment weight: 980g

Single-coloured • attached waistband with elastic band on both sides and button fastening on the outside • fly with covered zipper • 2 wing pockets • 2 back pockets, 1 ruler pocket on the right • each with flap and covered snap fastener • 1 mobile phone pocket on the left with flap and hook&loop fastener • knee pockets with covered hook&loop fastener • manufactured in roof tile design.

MATERIAL: 79 % COTTON, 10 % POLYESTER, 1 % CARBON • **FABRIC WEIGHT:** approx. 350 g/m² • approx. 450 g/m²

More sizes available - see size table on page 244

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Both versions are designed in the same look to ensure that employees are uniformly equipped in line with requirements. The flame-retardant and reinforced cotton ensures good wearing properties and the addition of polyester for greater strength and dimensional stability, so that the jacket, trousers and bib & brace can withstand many industrial washes.

ITEM	COLOUR	COLOUR NO.	COLOUR NAME	MATERIAL WEIGHT			4		REGULAR SIZES
		2027 2041	royal/navy navy/royal	350 g/m²	:	EN ISO 11611 Class 1 A1+A2			
1		2043 2382	navy/medium grey anthracite/medium arey	450 g/m²	EN ISO 11612 A1+A2/B1/C1/ E2/F1	EN ISO 11611 Class 2 A1+A2	EN 1149-5	ISO 15797	46-58 & 94-110
2 ,3		45	navy	350 g/m²	<u>:</u> :	EN ISO 11611 Class 1 A1+A2			
	E ADDUCA	58	anthracite	450 g/m²	··············	EN ISO 11611 Class 2 A1+A2			

FIELDS OF APPLICATION: Steel works, metalworking industry, plant construction



Elastic knitted inserts on the dungarees make it easier to put on and take off and to work in uncomfortable positions



BIB AND BRACE TROUSERS 350

Welding protection class 1

Part number: 01144 50100 000 + COLOUR NO.

Garment weight: 900g

BIB AND BRACE TROUSERS 450

Welding protection class 2

Part number: 01209 50100 000 + COLOUR NO.

Garment weight: 1.165g

Single-coloured • flame-retardant stretch braces with Fixlock buckles • straight kidney protection • 2 side slits with knitted gusset • 2 side seam pockets • 1 outer bib pocket, 2 back pockets, 1 ruler pocket on the right • each with flap and covered snap fastener • 1 cell phone pocket on the left with flap and hook&loop fastener • slit processing with covered zipper • knee pockets with covered hook&loop fastener • manufactured in roof tile construction.





POSSIBLE COLOUR COMBINATIONS - AVAILABLE IN TWO DIFFERENT FABRIC WEIGHTS



Thanks to the smooth surface and elaborate roof tile manufacture, beads of sweat and metal splashes do not stick to the clothing, but roll off downwards.

MATERIAL: 79 % COTTON, 10 % POLYESTER, 1 % CARBON **FABRIC WEIGHT:** approx. 350 g/m² · approx. 450 g/m²



Feel safe when welding: HB-4welders® 2.0 provides high-quality PPE for welders working under extreme conditions. It is perfectly suited for heavy duty welding work. SECAN® quality textiles have been tried and tested for many years, including extensively in the industrial laundry sector. Protection against molten metal splashes, sparks, welding beads and radiant heat.

ITEM	COLOUR	COLOUR NO.	COLOUR NAME			4	13		REGULAR SIZES	
1		2205	dark navy/medium grey							
2 3		458	dark navy	EN ISO 11611 Class 2 A1+A2	EN ISO 11612 A1+A2/B1/C1/ E3/F1	EN 1149-5	IEC 61482-2 APC 1	ISO 15797	46-58 & 94-110	
21,31		52	medium grey							
FIELDS OF APPLICATION: Welding companies, steel works, metalworking industry, foundries, plant construction										





1, 2 and 3 Ergonomic cut for more freedom of movement

BLOUSON

Welding protection class 2 Part number: **01237 10125 001 2205** Garment weight: approx. 1,175 g

Two-coloured • seamed with contrast colour off-white • band collar with covered snap fastener • closure band with covered PVC zip and covered snap fastener • 2 front pockets (+ mobile phone pocket on the right) with flap and covered snap fasteners • additional border on the lower arms • sleeve hems with adjustable covered snap fasteners • standard pictograms as direct FR embroidery on the front.















2

2 and 3 Ruler pocket with additional pen pocket

Flame-retardant stretch braces with useful fixlock buckle

Side entry with elastic knit wedge







TROUSERS

Welding protection class 2
Part number: **01237 20060 034 + COLOUR NO.**

Garment weight: approx. 970 g

Single-coloured • seamed with contrast colour off-white • added waistband with covered buttoning • fly with zip • 2 slant pockets • 1 hip pocket and 1 ruler pocket on the right (+ pen pocket) • 1 bellow pocket on the left (+ mobile phone pocket inside) – each with flap and covered snap fastener • knee pockets with adjustable hook & loop fastener.



Also models for ladies available delivered in just 21 days.

See page 236.

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BIB AND BRACE TROUSERS

Welding protection class 2

Part number: **01237 50041 065 + COLOUR NO.**

Garment weight: approx. 1,130 g

Two-coloured • seamed with contrast colour off-white • stretch braces with fixlock buckle • straight kidney protection • two-side access • PVC zip fly • 2 slant pockets • bib with outer pocket, flap and covered snap fastener • 1 hip pocket, 1 ruler pocket (+ pen pocket) and 1 bellows pocket (+ mobile phone pocket) – each with flap and covered snap fastener • knee pad pockets with adjustable covered hook &loop fastener.

MATERIAL: 89 % COTTON, 10 % POLYAMIDE, 1 % CARBON ·

FABRIC WEIGHT: approx. 390 g/m²





HB-ComFlex®

Comfortable, resilient and flexible: HB-ComFlex® combines elastic denim with resistant high-tech fabric in particularly exposed areas, for permanent intensive welding and heavy flex works as well as risky work situations such as overhead welding. The elastic denim provides the necessary freedom of movement and high wearing comfort. Worn solo, the denim is suitable for less exposed areas and medium to heavy welding work.

ITEM	COLOUR	COLOUR NO.	COLOUR NAME				REGULAR SIZES
4 0		397	dark denim	EN ISO 11612	EN ISO 11611 Class 2 A1+A2	ISO 15797	46-58 & 94-110
11,21		2404	dark denim/dark navy	A1+A2/B1/C1/E2	Class 2 A1+A2	130 13777	40-36 & 94-110

FIELDS OF APPLICATION: Welding companies, metalworking industry, plant construction, ship building









The denim gets a very individual used look after washing



Elasticated side

Free hanging pocket pouches on both pockets

Trim made of hightech fabric

Knee pockets





TROUSERS

Welding protection class 2

Part number: **01281 20000 007 397** (Denim)

Garment weight: approx. 930 g

Part number: 01281 20000 006 2404

(Denim + high-tech fabric)

Garment weight: approx. 940 g

Trim of high-tech fabric on front trousers • knee pocket with adjustable hook & loop fastener • pocket pouch of folding rule • leg pocket hanging free.

Single-coloured/two-coloured • set-in waistband with side elastic band and patent button to the outside • slit with zip • 2 wing pockets • 2 hip pockets, 1 folding rule pocket on the right and one leg pocket on the left, each with flap and covered snap fastener • mobile phone pocket in left leg pocket • ergonomically shaped knees due to darts • roof tile manufacture.



Elastic denim allows comfortable working with every movement

MATERIAL DENIM: 94 % COTTON, 4 % POLYESTER, 2 % ELASTANE · FABRIC WEIGHT: approx. 425 g/m² ·

MATERIAL HIGH-TECH FABRIC: 40 % ARAMIDE, 30 % MODACRYLIC, 20 % LYOCELL, 9 % POLYAMIDE, 1% CARBON ·

FABRIC WEIGHT: approx. 430 g/m²

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HB-ComFlex® is a modern industrial washable mix&match PPE that can be adapted to different areas of use and workplaces. All jacket, trouser and bib&brace garments can be combined with each other. The collection is complemented by a vegan welding apron that meets the requirements of the leasing industry to a particularly high degree.

ITEM	COLOUR	COLOUR NO.	COLOUR NAME				REGULAR SIZES
-1		397	dark denim				46-58 & 94-110
31		2404	dark denim/dark navy	EN ISO 11612 A1+A2/B1/C1/E2	EN ISO 11611 Class 2 A1+A2	ISO 15797	40-36 & 94-110
4		458	dark navy				46/48–58/60

FIELDS OF APPLICATION: Welding companies, metalworking industry, plant construction, ship building



BIB AND BRACE TROUSERS

Welding protection class 2

Part number: **01281 50100 008 397** (Denim)

Garment weight: approx. 1,040 g

Part number: **01281 50100 007 2404** (Denim+high-tech fabric)

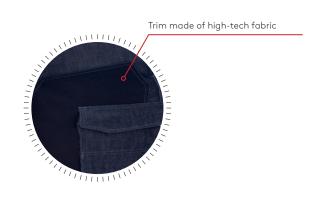
Garment weight: approx. 1,190 g

Trim of high-tech fabric on front trousers • knee pocket with

adjustable hook & loop fastener • pocket pouch of folding rule • leg pocket

hanging free.

Single-coloured/two-coloured • flame-retardant stretch straps with fixlock buckle • high-cut kidney protection • 2 comfortable side entrances made of knitted material • 2 wing pockets • 2 back pockets, one reinforced ruler pocket on the right and one reinforced leg pocket on the left – each with flap and covered snap fastener • mobile phone pocket in left leg pocket • shaped knees due to darts • roof tile manufacture.













The vegan welding apron for industrial laundry



Back belt adjustable with press studs

APRON WITH SLEEVES

Welding protection class 2

Part number: **01285 70069 000 458** (High-tech fabric)

Garment weight: approx. 1,020 g

Single-coloured • stand-up collar with concealed press stud • polo closure with concealed press studs • sack yoke • FR leasing collar • back belt adjustable with press studs • sleeve hem width adjustable with inside press stud • standards pictograms as FR direct embroidery • roof tile manufacture.

MATERIAL DENIM: 94 % COTTON, 4 % POLYESTER, 2 % ELASTANE · FABRIC WEIGHT: approx. 425 g/m² ·

MATERIAL HIGH-TECH FABRIC: 40 % ARAMIDE, 30 % MODACRYLIC, 20 % LYOCELL, 9 % POLYAMIDE, 1% CARBON ·

FABRIC WEIGHT: approx. 430 g/m²



This SECAN® collection offers reliable protection against liquid iron splashes (E3). The robust material with antistatic properties is also ideal for heavy welding work.

ITEM	COLOUR	COLOUR NO.	COLOUR NAME			4	PRO CONTRACTOR OF CONTRACTOR O	REGULAR SIZES
1 ,2 ,3		52	medium grey	EN ISO 11611 Class 2 A1+A2	EN ISO 11612 : A1+A2/B1/C1/ : E3/F1	EN 1149-5	ISO 15797	46-58 & 94-110

FIELDS OF APPLICATION: Steel works, metalworking industry, welding companies, foundries, plant construction, heat exposured workplaces



Standard pictograms as direct embroidery



Adjustable sleeve hem

JACKET

Liquid metal Fe

Part number: **01248 10048 001 52** Garment weight: approx. 870 g

Single-coloured • turn-down collar • closure band with snap fasteners covered on both sides • 1 inner front pocket on the right • 1 front pocket on the left and 2 side pockets – each with flap and covered snap fasteners • sleeve hem width adjustable via inside covered snap fastener • standard pictograms as direct embroidery on the front • FR leasing label.







Liquid metal Fe

Part number: 01248 20003 026 52 Garment weight: approx. 810 g

Single-coloured • added waistband with covered buttoning • covered button fly • 2 side seam pockets • 1 hip pocket on the right and 1 ruler pocket on the right each with flap and covered snap fastener.





2 and 3 Hip pocket and ruler pocket each with flap and covered snap fastener



BIB AND BRACE TROUSERS

Liquid metal Fe

Part number: **01248 50002 049 52** Garment weight: approx. 950 g

Single-coloured • stretch braces with clamp-on clips • straight kidney protection • 1 outer bib pocket with flap and covered snap fastener • side access on the left and fly, each with buttoning • 2 side seam pockets with covered snap fastener • 1 hip pocket on the right and 1 ruler pocket on the right – each with flap and covered hook&loop fastener.





MATERIAL: 98 % COTTON, 2 % CARBON FABRIC WEIGHT: approx. 420 g/m²



HB-Iron Pro

Our bestseller for protection against liquid iron splashes (E3). The SECAN® quality guarantees flame resistance up to 50 industrial washes and the reflective strips increase visibility. The ergonomic fit and modern design are just as impressive as the performance with maximum protection against heat radiation, welding splatters and large quantities of molten iron. NEW: a matching shirt made of lighter fabric, also with roof tile manufacture.

	ITEM	COLOUR	COLOUR NO.	COLOUR NAME			4	43	$\bigoplus_{\mathbb{C}}$		REGULAR SIZES
1	,2 ,3		3011	medium grey/orange/ fluorescent yellow	EN ISO 11612 A1+A2/B1/C1/ E3/F1	EN ISO 11611 Class 2 A1+A2		IEC 61482-2 APC 1	EN 17353		46-58 & 94-110
	a l		22	pure orange	EN ISO 11612 A1+A2/B1/C1/	EN ISO 11611	EN 1149-5		Type B2	ISO 15797	39/40 – 47/48
	4		52	middle grey	E1/F1	Klasse 1 A1+A2	Klasse 1 A1+A2		•		37/40-4//40

FIELDS OF APPLICATION: Steel works, metalworking industry, welding companies, foundries, plant construction, heat exposured workplaces



side pockets

JACKET

Liquid metal Fe

Part number: **01248 10000 011 3011** Garment weight: approx. 1,070 g

Three-coloured • stand-up collar with plastic snap fastener • fastening strip with snap fasteners, covered on both sides • 2 breast pockets with flap and covered snap fasteners • 2 set-in side pockets with plastic zipper • ergonomically shaped sleeves • sleeve hem width adjustable via plastic snap fasteners • flame-retardant reflective stripes with fluorescent yellow backing, suited for industrial laundry • no high-visibility protective clothing according to EN ISO 20471 • FR leasing label • standard pictograms as FR direct embroidery on the front • roof tile manufacture.



Higher visibility:

Patched flame-retardant reflective stripes with fluorescent backing, suited for industrial laundry, certified acc. to EN 17353





TROUSERS

Liquid metal Fe

Part number: **01248 20000 000 3011** Garment weight: approx. 840 g

Three-coloured • fitted waistband with covered button fastening • fly with zip • 2 side seam pockets • 1 back pocket on the right, 1 folding rule pocket on the right and one leg pocket on the left • each with flap and covered snap fastener • shaped knees due to darts • flame-retardant reflective stripes on the leg with fluorescent yellow backing, suited for industrial laundry • no high-visibility protective clothing acc. to EN ISO 20471 • roof tile manufacture.







HEAT, SPLASHES & WELDING



TTO WEAR

Trousers + bib and brace trousers also available with knee pockets in just 21 days. See page 237.

Flame-retardant stretch braces

High-cut kidney protection

NEW: The matching shirt – with reflective striping in accordance with EN 17353 for increased visibility





BIB AND BRACE TROUSERS

Liquid metal Fe

Part number: **01248 50100 005 3011**Garment weight: approx. 1,100 g

Three-coloured • flame-retardant stretch braces with fixlock buckle • high-cut kidney protection • 2 side entrances with elastic knitted wedge • slit with zip • 2 side seam pockets • 1 bib pocket with flap and covered snap fastener • 1 hip pocket on the right, 1 ruler pocket on the right and one leg pocket on the left • each with flap and covered snap fastener • shaped knees due to darts • flame-retardant reflective stripes on the leg with fluorescent yellow backing, suited for industrial laundry • no high-visibility protective clothing acc. to EN ISO 20471 • roof tile manufacture.

SHIRT

Liquid metal Fe

Part number: **01116 60026 005 + COLOUR NO.**

Garment weight: approx. 495 g

Single-colored • Comfort fit • turn-down collar with bar and covered snap fastener • collar with additional plastic snap fastener to close the raised collar • closure with snap fasteners covered on both sides • ergonomically shaped sleeves • chest pockets with flaps and sleeve cuffs with gusset, each with covered snap fasteners • FR reflective stripes with yellow backing, suited for industrial laundry • no high-visibility clothing protective acc. to EN ISO 20471 • FR leasing collar • standard pictograms as FR direct embroidery on right cuff • roof tile manufacture.

MATERIAL: 98 % COTTON, 2 % CARBON

FABRIC WEIGHT: 1 to 3 approx. 420 g/m² · 4 approx. 250 g/m²





Fans of natural fibres should try out this work clothing with low flammability: Marlan contains 30 % wool and 50 % viscose. This fibre combination offers efficient protection against liquid aluminium and iron as metal splashes easily drip off. The polyamide part of the fabric improves the mechanical resistance.

ITEM	COLOUR	COLOUR NO.	COLOUR NAME	F		PRO O	REGULAR SIZES
1 , 2 , 3 4		45	navy	EN ISO 11611 Class 1 A1	EN ISO 11612 A1/B1/C1/D3/ E3/F1	ISO 15797	46-58 & 94-110 46-58
FIELDS C	F APPLICA	TION: Aluminiu	ım working indust	ry, foundrie	s, metalwor	ks, heat exp	osed workplaces





JACKET

Liquid metal Al + Fe

Part number: **01180 10214 000 45** Garment weight: approx. 838 g

Single-coloured • turn-down collar • contrast stitching on shoulders and on the sides • set-in sleeve with pivot spacing • 1 breast pocket on left with flap • front pocket on right with flap • front closure with snap fasteners • manufactured in roof tile design.

TROUSERS

Liquid metal Al + Fe

Part number: **01180 20148 000 45** Garment weight: approx. 791g

Single-coloured • 2 slant pockets • covered front closure with snap fasteners • right-side ruler pocket • right-side back pocket.







Size-adjustable hip width



BIB AND BRACE TROUSERS

Liquid metal Al + Fe

Part number: **01180 50101 000 45** Garment weight: approx. 963 g

Single-coloured • adjustable braces • bib pocket • size-adjustable hip width • side pockets • covered front closure with snap fasteners • right-side ruler pocket • right-side back pocket • manufactured in roof tile design.

SHIRT

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Liquid metal Al + Fe

Part number: **01180 60028 000 45** Garment weight: approx. 647 g

Single-coloured • mandarin collar • set-in sleeve with pivot spacing • covered front closure with hook&loop fastener FR • manufactured in roof tile design.

MATERIAL: 50 % VISCOSE FR · 30 % WOOL · 20 % POLYAMIDE ·

FABRIC WEIGHT: approx. $365 \, g/m^2$





HB-HeavyMetal Pro®, available in two weight classes, is the answer to the special requirements for PPE for working with high temperatures or molten metal. The material has good moisture management and is also very comfortable to wear thanks to its balanced composition. Just like the reflective stripes, it is suited for industrial laundry.

ITEM	COLOUR	COLOUR NO.	COLOUR NAME	FABRIC WEIGHT			4	4.	$\bigoplus_{\mathbb{C}}$	PRO E	REGULAR SIZES
		2080	anthracite grey/ pure orange	approx. 340 g/m²	EN ISO 11612 A1+A2/ B1/C1/D2/ E2/F1	: :					
1 , 2		2138	anthracite grey/ petrol	approx. 430g/m²	EN ISO 11612 A1+A2/	EN ISO 11611	EN 1149-5	IEC 61482-2 APC 1	EN 17353 Type B2	ISO 15797	46-58 & 94-110
		2204	navy/ anthracite grey	430 g/m²	B1/C1/D3/ E3/F1	Class 2 A1+A2					

FIELDS OF APPLICATION: Aluminium working industrie, foundries, steelworks, heat-exposed workplaces



Side pockets with covered PVC zip

JACKET 340

Liquid metal Al + Fe

Part number: **01221 10000 012 + COLOUR NO.** (340 g/m²)

Garment weight: approx. 830 g

JACKET 430

Liquid metal Al + Fe

Part number: **01218 10000 012 + COLOUR NO.** (430 g/m²)

Garment weight: approx. 1,050 g

Two-coloured • stand-up collar with covered snap fastener • covered front closure with snap fasteners • 2 attached breast pockets with flaps and covered snap fasteners • 2 side pockets with covered PVC zip • ergonomically formed sleeves • sleeve width adjustable via snap fasteners • segmented FR reflective stripes, suitable for industrial laundry • no high-visibility protective clothing acc. to EN ISO 20471 • leasing neck label • embroidered FR standard pictograms on the front • manufactured with roof tile design.











2

1 and 2 Enjoy more freedom of movement thanks to the ergonomic cut

Leg pocket with mobile phone pocket inside

Knee pockets with adjustable hook&loop fastening

Contrast colour







TROUSERS 340

Liquid metal Al + Fe

Part number: **01221 20000 009 + COLOUR NO.** (340 g/m²)

Garment weight: approx. 730 g

TROUSERS 430

Liquid metal Al + Fe

Part number: **01218 20000 009 + COLOUR NO.** (430 g/m²)

Garment weight: approx. 990g

Two-coloured • added waistband with buttoning • covered zip fly • 2 side seam pockets • 2 back pockets, 1 ruler pocket on the right and 1 leg pocket on the left - each with flap and covered snap fastener • free hanging pocket pouch of ruler and leg pocket (+ mobile phone pocket inside) • knee pockets with adjustable hook \& loop fastener ${}^{\bullet}$ segmented FR reflective stripes, suitable for industrial laundry • no high-visibility protective clothing acc. to EN ISO 20471 • manufactured with roof tile design.

MATERIAL: 01221 50 % COTTON, 39 % MODACRYLIC, 10 % VISCOSE, 1 % CARBON · MATERIAL: 01218 52 % COTTON, 37 % MODACRYLIC, 10 % VISCOSE, 1 % CARBON ·

FABRIC WEIGHT: approx. 340 g/m² (01221) · approx. 430 g/m² (01218)



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The dynamic design of HB-HeavyMetal Pro® in trendy colours and ergonomic features stands for modern PPE with a high protection level. The standard profile also includes increased visibility certified according to EN 17353. The flame-retardant reflective strips are segmented and patched for optimum freedom of movement.

ITEM	COLOUR	COLOUR NO.	COLOUR NAME	FABRIC WEIGHT			4	4.3	<u> </u>	PRO DID	REGULAR SIZES
		2080	anthracite grey/ pure orange	approx. 340 g/m²	EN ISO 11612 A1+A2/ B1/C1/D2/ E2/F1	EN ISO 11611 Class 1 A1+A2					
1,2,3		2138	anthracite grey/ petrol	approx. 430 g/m²	EN ISO 11612 A1+A2/ B1/C1/D3/	EN ISO 11611 Class 2		IEC 61482-2 APC 1	EN 17353 Type B2	ISO 15797	46-58 & 94-110
		2204	navy/ anthracite grey	100 9/111	E3/F1	A1+A2					
		45	navy	approx.	EN ISO 11612 A1+A2/	EN ISO 11611		_	_		39/40-47/48
4		58	navy anthracite grey	250 g/m²	B1/C1/D1/ E2/F1	/ Class 1 A1+A2			-		37/40-4//40

FIELDS OF APPLICATION: Aluminium working industrie, foundries, steelworks, heat-exposed workplaces



2 and 3 Pocket pouch of ruler and leg pocket free hanging

movement thanks to the ergonomic cut

Enjoy more freedom of

1 to 4





BIB AND BRACE TROUSERS 340

Liquid metal Al + Fe

Part number: **01221 50100 009 + COLOUR NO.** (340 g/m²)

Garment weight: approx. 900 g

BIB AND BRACE TROUSERS 430

Liquid metal Al + Fe

Part number: **01218 50100 009 + COLOUR NO.** (430 g/m²)

Garment weight: approx. 1,170 g

Two-coloured • fix-lock stretch braces • breast bib pocket • high-cut kidney protection • one-side access • covered zip fly • 2 side seam pockets • 2 back pockets, 1 ruler pocket on the right and 1 leg pocket on the left - each with flap and covered snap fastener • free hanging pocket pouch of ruler and leg pocket (+mobile phone pocket inside) • knee pockets with adjustable hook &loop fastener • segmented FR reflective stripes, suitable for industrial laundry • no high-visibility protective clothing acc. to EN ISO 20471 • manufactured with roof tile design.







1 to 3 | Better visibility thanks to modern patched reflective stripes, flame retardant and suitable for industrial laundry, certified acc. to EN 17353





SHIRT

Liquid metal Al + Fe

Part number: 01109 60026 003 + COLOUR NO.

Garment weight: approx. 490 g

Single-coloured • Comfort Fit • turn-down collar with snap fastener • collar additionally with a plastic snap fastener to close when the collar is turned up • front zipper with covered snap fastener on both sides • preformed sleeves • chest pocket with flap and sleeve cuff with gusset – each with covered snap fastener • FR leasing label • standard pictograms as FR embroidery on right sleeve cuff • manufactured with roof tile design.

MATERIAL: 01221 and 01109 50 % COTTON, 39 % MODACRYLIC, 10 % VISCOSE, 1 % CARBON ·

MATERIAL: 01218 52 % COTTON, 37 % MODACRYLIC, 10 % VISCOSE, 1 % CARBON ·

FABRIC WEIGHT: approx. 340 g/m² (01221) · approx. 430 g/m² (01218) · approx. 250 g/m² (01109)

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Prime selection with liquid aluminium and iron: VINEX® impresses by its extraordinary and highly efficient protective properties while working with liquid metals and being exposed to metal splashes. The inherent flame-retardant fabric offers with D3 / EN 11612 the most high certified protection against aluminium splashes. In addition the fabric is very soft and offers high wearing comfort. Now also with Electric Arc Flash protection.

ITEM	COLOUR	COLOUR NO.	COLOUR NAME		4.		REGULAR SIZES
1,2,3		48	dark blue	EN ISO 11612 A1+A2/B1/C1/D3/ E3/F1	IEC 61482-2 APC 1	ISO 15797	46-58 & 94-110
4	· · · · · · · · · · · · · · · · · · ·	70	ddik blue	EN ISO 11612 A1+A2/B1/C1/D1/ E1/F1	-	100 13///	39/40-47/48

 $\textbf{FIELDS OF APPLICATION:} \ \textbf{Aluminium industry, steel and metal works, foundries,}$

heat exposed workplaces



BLOUSON

Liquid metal Al + Fe

Part number: **01058 10015 005 48**Garment weight: approx. 960 g

Single-coloured • high band collar with covered hook&loop fastener • closure band with snap fasteners covered on both sides • 1 front pocket on the left and 2 side pockets – each with flap and covered snap fasteners • 1 inner pouch pocket on the right with snap fastener • FR leasing label • sleeve hem width adjustable via inwards covered snap fasteners.

TROUSERS

Liquid metal Al + Fe

Part number: **01058 20013 003 48** Garment weight: approx. 1,005 g

Single-coloured • added waistband with 7 belt loops and covered buttoning • covered snap fastener fly • 2 side seam pockets • 1 hip pocket and 1 ruler pocket on the right with flap and covered snap fastener • trouser leg manufactured in roof tile design.









2 and 3 Roof tile design makes liquid metal splashes easily drip off

BIB AND BRACE TROUSERS

Liquid metal Al + Fe

Part number: **01058 50012 003 48** Garment weight: approx. 1,130 g

Single-coloured • stretch braces with clamp-on clips • 1 inner bib pocket with snap fastener • 2 side seam pockets with covered snap fasteners, 1 hip pocket on the right and 1 ruler pocket on the right – each with flap and covered snap fastener • 1 side access on the left and button fly • trouser leg manufactured in roof tile design.

SHIRT, WITH STAND-UP COLLAR

Liquid metal Al + Fe

Part number: **01057 60002 004 48** Garment weight: approx. 540 g

Single-coloured • stand up collar with hook &loop fastening • front zipper with snap fasteners covered on both sides • left hand side chest pocket with flap and covered snap fasteners • sleeves with adjustable wristbands via covered snap fastener.

MATERIAL: 85 % VINYLAL, 15 % MODAL ·

FABRIC WEIGHT: 1 to 3 approx. 390 g/m² · 4 approx. 285 g/m²







Health protection for PPE wearers on hot days:

Our cooling garments reduce heat stress in extreme temperatures. The cooling effect, which lasts for several hours, is activated simply under the tap. The surface is dry again in a few seconds and the product is immediately ready for use.

ITEM	COLOUR	COLOUR NO.	COLOUR NAME		SIZES
1 , 2		45	navy	-	S–2XL
3		58	anthracite grey	-	approx. 240 x 165 x 18 mm
4		46	black	EN ISO 11612-A1 Material	Length: 90 cm/110 cm/130 cm; Width: 38 mm

FIELDS OF APPLICATION: Heat and flame exposed workplaces, energy suppliers, public services, plant engineering and construction, electricians

3-D COOL® Technology: Fast and long-lasting cooling in the right places and for several hours. The material stores the water and provides a clear cooling effect for several hours via evaporative cooling.

COOLING VEST

Accessories

Part number: **90026 16021 000 45** Garment weight: approx. 260 g

Single-coloured • V-neck • covered hook &loop fastener for variable width adjustment • body in short shape for health protection: the kidney area remains free of cooling • in a few seconds the product is evenly activated with water and the surface is dry again and the vest is ready for use • does not drip and there is no condensation • lowers the body temperature to a normal physiological level • 3D-high-tech microfiber fleece • outer fabric antibacterial thanks to natural silver ions • pleasantly light and sweat-absorbing • can be worn under any clothing • machine washable in the household laundry.



1 and 2 Antibacterial outer fabric

COOLING BANDANA

Accessories

Part number: **90026 76026 000 45** Garment weight: approx. 90 g

Single-coloured • with ties in the back area • back with tab for cooling the neck area • in a few seconds the product is evenly activated with water and the surface is dry again and the bandana is ready for use • does not drip and does not release condensation • 3D-high-tech microfiber fleece • outer fabric antibacterial thanks to natural silver ions • pleasantly light and sweat-absorbing • can be worn under any helmet or hood • machine washable in the household laundry.



HEAT, SPLASHES & WELDING



KNEE PADS

Accessories

Part number: **04033 76013 000 58** Garment weight: approx. 70 g

The lightweight and sturdy knee pads protect the knees and increase comfort during activities that require kneeling. Suitable for all HB trousers equipped with knee pockets. Even withstands several domestic washings if it remains in the knee pockets (Note: no industrial laundry).

Sale unit: 1 pair



BELT FR

Accessories

Part number: **01113 76012 000 46** Garment weight: approx. 80 g

Stretch belt made of flame-retardant knitted material with plastic buckle, suited for heat protection clothing. The certified material meets the requirements regarding combustion behaviour and heat resistance and shrinkage with industrial laundry according to EN ISO 11612-A1.



MATERIAL: 1 and 2 Outer material: 100% POLYESTER, inner material: 100% COOLINE® POLYESTER .

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FABRIC WEIGHT: 1 and 2 approx. 580 g/m²



For works in high-temperature environments, we offer aluminised heat protection clothing from head to toe in four different materials, including two lightweight and very high-performance qualities. They complete our product range, including CLASSIC, COMFORT and COMFORT-Plus versions with numerous feature options. For example, the foundry coat is available in 84 and the heat protection jacket in 42 variants.









TEMPEX®-TREME HEAT MATERIAL OVERVIEW

The materials differ in terms of the composition and construction of the carrier material, the type of aluminisation, the weight and the specific protective properties against the various forms of heat load. Wearing comfort and mechanical strength also vary.

Material name	CK-12/Z	AW-1/Y	KF-3/Z	CK-4/Z
Material number	12014	12008	12003	12015
Collection/Products	TEMPEX®-TREME HEAT COMFORT/COMFORT Plus	TEMPEX®-TREME HEAT COMFORT/COMFORT Plus	TEMPEX®-TREME HEAT CLASSIC	Gaiters and gloves
Material	70 % preox, 30 % para-aramide	100 % aramide (70 % recycled meta-aramide, 30 % para-aramide)	100% para-aramide	70% preox, 30% para-aramide
Material weight	approx. 360 g/m²	approx. 420 g/m²	approx. 475 g/m²	approx. 690 g/m²
Carrier material	Twill	Knitted fabric with roughened nap	Herringbone twill	Twill
Aluminisation	Aluminum pigmented transfer film	PES film aluminised on both sides	Aluminum pigmented transfer film	Aluminum pigmented transfer film
Standards	EN ISO 11612 A1/B1/C3/D3/E3/F1	EN ISO 11612 A1/B1/C4/D3/E3/F2	EN ISO 11612 A1/B1/C3/D3/E3/F1	EN ISO 11612 A1/B1/C3/D3/E3/F1
Protection properties	High protection against radiant heat Very good protection from liquid metal spatters Very lightweight and soft design for high wearing comfort Good mechanical strength	 Highest protection against radiant heat (C4) Very high thermal insulation and heat barrier Very good protection from liquid metal spatters Lightweight and very soft design for high wearing comfort 	High protection against radiant heat Very good protection from liquid metal spatters Very high mechanical strength	High protection against radiant heat High protection against contact heat Very good protection from liquid metal spatters Very high mechanical strength
Detailed photo				

FIELDS OF APPLICATION:

Steelworks, aluminium-processing industry, foundries, heat-exposed workplaces, metal processing industry

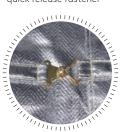


TEMPEX®-TREME HEAT CLASSIC

We offer jacket, trousers, foundry coat and sleeve apron in the resistant material KF-3/Z in various designs. Choose between hook&loop- and Ruck-Zuck-fastening as well as different coat and jacket lengths (see model overview on page 240).

ITEM	MAT. NO.	MATERIAL	COLOUR	COLOUR NO.	COLOUR NAME		REGULAR SIZES
1 to 4	12003	KF-3/Z		15	silver	EN ISO 11612 A1/B1/C3/D3/E3/F1	46/48-58/60









FOUNDRY COAT

Metalized heatprotection (C3) Part number: **12003 41030 000 15 (KF-3/Z)** Garment weight: approx. 1,520 g

Inner collar with flame-retardant cotton lining • front with covered hook&loop fastener FR • FR seams • length: approx. 130 cm.
Further available length: 140 cm.

APRON WITH SLEEVES

Metalized heatprotection (C3)

Part number: 12003 71130 000 15 (KF-3/Z)

Garment weight: approx. 1,125 g

Neckline with FR molleton • opening with covered hook & loop fastener • hook & loop fastener on the back • ergonomic sleeves • sleeve width adjustable via snap fastener inside • all seams with FR thread • length: approx. 130 cm.









More lengths and variants available in just 21 days. See page 238.

JACKET

Metalized heatprotection (C3) Part number: **12003 11080 000 15 (KF-3/Z)** Garment weight: approx. 1,025 g

Inner collar with flame-retardant cotton lining • front with covered hook & loop fastener FR • FR seams • length: approx. 80 cm.
Further available lengths: 90 cm/100 cm.

TROUSERS

Metalized heatprotection (C3) Part number: **12003 2H003 000 15 (KF-3/Z)** Garment weight: approx. 1,131 g

Sewn-in adjustable suspenders • covered zip fly with snap fastener closure • FR seams.



TEMPEX®-TREME HEAT CLASSIC

Our bib and half apron are also available in the robust KF-3/Z material and are equipped with an adjustable hook & loop fastener for faster donning and doffing.

ITEM	MAT. NO.	MATERIAL	COLOUR	COLOUR NO.	COLOUR NAME	(b)	SIZES
5 ,6	12003	KF-3/Z		15	silver	EN ISO 11612 A1/B1/C3/D3/E3/F1	One size







Tie straps

for closing

BIB APRON

Metalized heatprotection (C3) Part number: 12003 71131 000 15 (KF-3/Z) Garment weight: approx. 642 g

Neck strap • hook&loop fastener for closing • all seams with FR thread • length: approx. 130 cm.

HALF APRON

Metalized heatprotection (C3) Part number: 12003 71100 000 15 (KF-3/Z) Garment weight: approx. 511 g

Hook&loop fastening \bullet all seams with FR thread • length: approx. 100 cm.



2TO ZIWEAR

HEAT. **SPLASHES &** WELDING



Our COMFORT program stands for particularly high protection and optimised wearing comfort. All variants are available from stock in the very light material CK-12/Z and via our high-speed delivery service 21 TO WEAR® in the soft and highly insulating AW-1/Y. The aprons are available in several lengths.

ITEM	MAT. NO.	MATERIAL	COLOUR	COLOUR NO.	COLOUR NAME		REGULAR SIZES
1 , 2	12014	CK-12/Z		15	silver	EN ISO 11612 A1/B1/C3/D3/E3/F1	46/48–58/60 Bib apron: One size

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APRON WITH SLEEVES

Metalized heatprotection (C3)

Part number: 12014 71130 000 15 (CK-12/Z)

Garment weight: approx. 960 g

Neckline with FR molleton • opening with covered hook&loop fastener • hook&loop fastener on the back • ergonomic sleeves • sleeve width adjustable via snap fastener inside • all seams with FR thread • length: approx. 130 cm.

Further available length: 110 cm.

BIB APRON

Metalized heatprotection (C3) Part number: 12014 71131 000 15 (CK-12/Z)

Garment weight: approx. 470 g

Neck strap • hook&loop fastener for closing • all seams with FR thread • length: approx. 130 cm. Further available length: 110 cm.



More lengths as well as variants in material AW-1/Y available within just AR 21 days. See page 238.



TEMPEX®-TREME HEAT COMFORT

The COMFORT range includes jacket and foundry coat with ergonomically shaped sleeves (width-adjustable for the jacket), walking slit for the coat and several lengths and fastening options for both. The trousers have a comfort waistband and a hem-length fastener. All models offer excellent protection against larger iron and aluminium splashes (D3 and E3) and the AW-1/Y material offers maximum protection against radiant heat (C4).

ITEM	MAT. NO.	MATERIAL	COLOUR	COLOUR NO.	COLOUR NAME		REGULAR SIZES
3 , 4 , 5	12014	CK-12/Z		15	silver	EN ISO 11612 A1/B1/C3/D3/E3/F1	46/48-58/60



FOUNDRY COAT

Metalized heatprotection (C3)

Part number: 12014 41130 001 15 (CK-12/Z)

Garment weight: approx. 1,110 g

Ergonomic sleeves, width adjustable via snap fastener inside • inner collar with flame-retardant cotton lining • front with covered hook&loop fastener FR • walking slit • FR seams • length: approx. 130 cm. Further available lengths: 110 cm/120 cm/140 cm.









JACKET

Metalized heatprotection (C3)

Part number: 12014 11180 000 15 (CK-12/Z)

Garment weight: approx. 800 g

Ergonomic sleeves, width adjustable via snap fastener inside • inner collar with flame-retardant cotton lining \bullet front with covered hook & loop fastener FR \bullet FR seams • length: approx. 80 cm. Further available lengths: 90 cm/100 cm.

TROUSERS

Metalized heatprotection (C3)

Part number: 12014 21000 001 15 (CK-12/Z)

Garment weight: approx. 890 g

Sewn-in adjustable braces • covered zip fly with snap fastener • covered zip fly with hook&loop fastener • comfort waistband with side elastic band ullet inner waistband with FR molleton • quick access thanks to hook&loop fasteners at both sides of the legs • all seams with FR thread.



TEMPEX®-TREME HEAT COMFORT Plus

The COMFORT Plus program comprises the most comfortable equipment: the COMFORT versions are supplemented by additional features. In addition to the standard underarm ventilation, we offer optional additional back ventilation and, in the case of the caster coat, also the choice between a walking slit and the more comfortable concealed walking pleat for the best possible freedom of movement with optimum protection even when in action.

	ITEM	MAT. NO.	MATERIAL	COLOUR	COLOUR NO.	COLOUR NAME		REGULAR SIZES
1	1 , 2 , 3	12008	AW-1/Y		15	silver	EN ISO 11612 A1/B1/C4/D3/ E3/F2	46/48-58/60



FOUNDRY COAT

Metalized heatprotection (C4) Part number: 12008 41130 022 15 (AW-1/Y) Garment weight: approx. 1,470 g

Ergonomic sleeves, width adjustable via snap fastener inside • inner collar with flame-retardant cotton lining • front with covered hook&loop fastener FR • with underarm and back ventilation • FR seams • walking slit • length: approx. 130 cm. Further available lengths: 110 cm/120 cm/140 cm.











All seams with FR thread

JACKET

Metalized heatprotection (C4)

Part number: 12008 11180 020 15 (AW-1/Y)

Garment weight: approx. 945 g

Ergonomic sleeves, width adjustable via snap fastener inside • inner collar with flame-retardant cotton lining • front with covered hook&loop fastener FR • with underarm and back ventilation • FR seams • length: approx. 80 cm. Further available lengths: 90 cm/100 cm.

TROUSERS

Metalized heatprotection (C4)

Part number: 12008 21000 001 15 (AW-1/Y)

Garment weight: approx. 995 g

Sewn-in adjustable braces • covered zip fly with snap fastener • covered zip fly with hook&loop fastener • comfort waistband with side elastic band ullet inner waistband with FR molleton • quick access thanks to hook&loop fasteners at both sides of the legs • all seams with FR thread.



TEMPEX®-TREME HEAT

The aluminized heat protection clothing is complemented by compatible face and head protection, individually combinable. These include head protection hoods in various designs – also with ventilation openings – as well as the matching visors and heat protection glasses.

17	EM	MAT. NO.	MATERIAL	COLOUR	COLOUR NO.	COLOUR NAME		REGULAR SIZES
1,2	1,41,61	12003	KF-3/Z		•		EN ISO 11612 A1/B1/C3/D3/E3/F1	
3	,5	12008	AW-1/Y		15	silver	EN ISO 11612 A1/B1/C4/D3/ E3/F2	One size

PROTECTIVE HOOD, CHEST PROTECTION

Accessories

Part number: 12003 7H007 000 15 (KF-3/Z)

Garment weight: approx. 508 g

Shaped shoulder and chest area • elastic band in back • protective glass frame made of aluminum • storage loop • FR seams • approx. 600 mm long from the edge of the helmet (front and back side) • fits with helmets Phenol (item 90021 7Z006 011 68) and Poly (item 90022 7Z006 012 10) • fits with heat protection glass • sized 100 x 220 mm.



PROTECTIVE HOOD

Accessories

Part number: 12003 7H007 001 15 (KF-3/Z)

Garment weight: approx. 297 g

Elastic band in back • protective glass frame made of aluminum • storage loop • FR seams • approx. 150 mm long (back side) • fits with helmets Phenol (item 90021 7Z006 011 68) and Poly (item 90022 7Z006 012 10) • fits with heat protection glass • sized 100 x 220 mm.





PROTECTIVE HOOD, CHEST PROTECTION

Accessories

Part number: 12008 71001 002 15 (AW-1/Y)

Garment weight: approx. 415 g

Shaped shoulder and chest area • with two covered ventilation openings at the sides • elastic band in back • protective glass frame made from aluminium • storage loop • all seams with FR thread • side height approx. 50 cm from storage loop across shoulder • compatible with Phenol (item 90021 7Z006 011 68) and Poly helmet (item 90022 7Z006 012 10) • compatible with heat protection glass in size 100 x 220 mm.



2ITO ZIWEAR

HEAT, **SPLASHES &** WELDING



HELMET COVER

Accessories

Part number: 12003 7H009 000 15 (KF-3/Z)

Garment weight: approx. 184 g

Shaped neck protection • side snap fasteners for attaching a face shield • FR seams • fits with helmets Phenol (item 90021 7Z006 011 68) and Poly (item 90022 7Z006 012 10) • fits with face guard (item 12008 71010 000 15).



FACE GUARD

Accessories

Part number: 12008 71010 000 15 (KF-4/Z)

Garment weight: approx. 283 g

Protective glass frame made of aluminum • bendable wire for adjusting to head shape • side snap fasteners for attaching neck protection • FR seams • fits with helmet cover (item 12003 7H009 000 15) • fits with heat protection glass sized 100 x 220 mm.









CUFFS

Accessories

Part number: 12003 7H003 000 15 (KF-3/Z) Cuff made of aluminised Aramide • elastic band on both ends • length approx. 430 mm.



Elastic band on both ends

TEMPEX®-TREME HEAT

The aluminized heat protection clothing is complemented by compatible face and head protection which can be individually combined. This includes safety helmets, Bochum goggles and matching visors and heat protection glasses.

PROTECTIVE HELMET PHENOL

Accessories

Part number: 90021 7Z006 011 68

Straight shell • manufactured from phenolic resin fabric • 6-point webbed harness with genuine leather sweatband, foam cushion band and lock ratchet • antistatic, for use in hot zones (metal splashing), temperatures from -30 °C up to +150 °C • fits with all head protection hoods • fits with Flip-Up Mounting (item 90002 7Z019 004 15).

One size (51-64 cm)

gold Standards:





Fits with all head protection hoods

PROTECTIVE HELMET POLY

Accessories

Part number: 90022 7Z006 012 + COLOUR NO.

Straight shell with rain gutter • manufactured from fibreglassreinforced polycarbonate • 6-point webbed harness with genuine leather sweatband, foam cushion band and lock ratchet • for use in hot zones and electrical insulation (1000 V), temperatures from -30 °C up to +150 °C • fits with all head protection hoods • fits with Flip-Up Mounting (item 90002 7Z019 004 15).

One size (51-64 cm)

____ 10 white

25 red

Standards:



EN 50365



ference with practical twist lock

HEAT, **SPLASHES &** WELDING



FLIP-UP MOUNTING

Accessories

Part number: 90002 7Z019 004 15

For fastening face guard to protective helmet • with 2 flap closures and a plastic-coated suspension spring • fits with helmets Phenol (90021 7Z006 011 68) and Poly (90022 7Z006 012 10) • fits with all all-around visors sized 500 x 250 mm.

One size silver



BOCHUM GOGGLES

Accessories

Part number: 90001 7Z024 000 15

Aluminum edging • blackened wire mesh inside • protective glass holder • fits with Flip-Up Mounting (item 90002 7Z019 004 15) • fits with heat protection glass sized 120×60 mm.

silver Standards:





BOCHUM GOGGLES WITHOUT GLASS HOLDER

Accessories

Part number: 90001 7Z024 001 15

Aluminum edging • blackened wire mesh inside • fits with Flip-Up Mounting (item 90002 7Z019 004 15).

silver





The aluminized heat protection clothing is complemented by compatible face and head protection which can be individually combined. This includes safety helmets, Bochum goggles and matching visors and heat protection glasses.

PROTECTIVE WIRE SCREEN

Accessories

Part number: 90001 7Z025 001 15

Crimped edge • blackened wire mesh inside • fits with Flip-Up Mounting (item 90002 7Z019 004 15) • shape: 500 x 300 mm.



FURNACE VIEWING GLASS, CURVED

Accessories

Part number: 90005 7Z023 004 48

Curved laminated safety glass • special blue-coloured filter • colour-correcting • protection from radiant heat • protection from radiant heat • protection from short wave IR radiation • protection level 4-7 A-DIN • fits with head protection hoods (item 12003 7H007 000 15 or 12003 7H007 001 15) • fits with Face Guard (item 12008 71010 000 15) • shape: 100 x 220 mm.



LAMINATED SAFETY GLASS, GOLD

Accessories

Part number: 90006 7Z023 000 68

Curved laminated safety glass • gold-plated • protection from radiant heat • fits with head protection hoods (item 12003 7H007 000 15 or 12003 7H007 001 15) • fits with Face Guard (item 12008 71010 000 15) • shape: 100 x 220 mm.





POLYCARBONATE SCREEN GREEN, GOLD

Accessories

Part number: **90018 7Z023 002 68**

Curved laminated safety screen• gold-plated • protection from radiant heat • fits with head protection hoods (item 12003 7H007 000 15 or 12003 7H007 001 15) • fits with Face Guard (item 12008 71010 000 15) • shape: 100 x 220 mm.





EN 171









HEAT, SPLASHES & WELDING



ALL-AROUND VISOR CLEAR

Accessories

Part number: 90004 7Z010 002 00

Clear, flexible polycarbonate plate \bullet rounded shape: 500 x 250 x 1mm \bullet fits with Flip-Up Mounting (item 90002 7Z019 004 15).

neutral Standards:



FN 144

ALL-AROUND VISOR CLEAR, GOLD

Accessories

Part number: 90004 7Z010 000 68

Clear, flexible polycarbonate plate \bullet gold-plated \bullet protection from radiant heat (protection level 4-4) \bullet rounded shape: 500 x 250 x 1 mm \bullet fits with Flip-Up Mounting (item 90002 7Z019 004 15).

gold Standards:



EN 166

EN 171

ALL-AROUND VISOR GREEN, GOLD

Accessories

Part number: 90004 7Z010 001 33

Green-tinted, flexible polycarbonate plate \bullet gold-plated \bullet protection from radiant heat (Protection level 4-5) \bullet rounded shape: 500 x 250 x 1mm \bullet fits with Flip-Up Mounting (item 90002 7Z019 004 15).

green
Standards:



FN 166

EN 171

FURNACE VIEWING GLASS WITH COLOURED FILTER

Accessories

Part number: 90005 7Z023 001 48

Composite safety glass • special blue-coloured filter • colour-correcting • protection from radiant heat • protection from blinding light • protection from short-term IR radiation • protection level 4-7 A-DIN • fits with Bochum Goggles (item 90001 7Z024 000 15) • shape: $120 \times 60 \, \text{mm}$.

dark blue







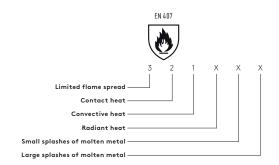


TEMPEX®-TREME HEAT

Our new heat protection gloves are available in different variants, lengths and sizes and offer protection against thermal risks according to EN 407 as well as mechanical hazards according to EN 388 thanks to selected material combinations and insulation layers.

Protective gloves against thermal risks EN 407:2020

Protective gloves tested according to this standard protect against heat and/or fire. The actual protective performance depends on the test performed during certification and the level of performance achieved, with 1 being the lowest and 4 the highest. "X" means not tested.



Test	Performance Level						
	1	2	3	4			
Combustion behavior Afterflame time (in sec.) Afterglow time (in sec.)	< 20 n.r.	< 10 < 120	< 3 < 25	< 2 < 5			
Contact heat Contact temperature Tc (in °C) Threshold t1 (in sec.)	100 > 15	250 > 15	350 > 15	500 > 15			
Convective Heat Heat Transfer Index HTI (in sec.)	> 4	> 7	> 10	> 18			
Radiant heat Radiant heat transfer t24 (in sec.)	> 7	> 20	> 50	> 95			
Small splashes of molten metal Number of splashes	> 10	> 15	> 25	> 35			
Large splashes of molten metal Liquid iron splashes (in g)	30	60	120	200			

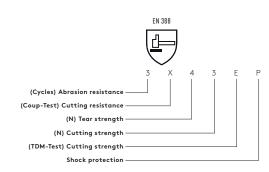
⁴ means the highest and 1 means the lowest performance level. n.r. means "no requirement".

X means "not tested". 0 means "below the minimum requirements".

For higher durability in contact heat, we rely on selected materials and different insulation layers, especially in the palm area, so that protection against heat up to 500 °C can be reached there. High resistance to radiant heat and splashes of molten metal is achieved primarily through the use of aluminised materials.

Protective gloves against mechanical risks EN 388:2016

This standard specifies the test methods and performance requirements of protective gloves against mechanical risks. The specific protective performance depends on which test is carried out during certification and which performance level is achieved, 1 being the lowest and 5 the highest performance level. "X" means not tested.



Test	Performance Level						
	1	2	3	4	5		
Abrasion resistance (Number of cycles)	100	500	2000	8000			
Cutting resistance (Factor)	1,2	2,5	5,0	10,0	20		
Tear strength (in newton)	10	25	50	75			
Cutting strength (in newton)	20	60	100	150			

5 means the highest and 1 means the lowest performance level.

X means "not tested". 0 means "below the minimum requirements".

The choice of materials in the palm has a decisive influence on the mechanical properties and wear. The abrasion resistance and tear resistance are the focus of our requirements.



METALLISED HEAT PROTECTION GLOVES UP TO 500 °C CONTACT HEAT

			MATERIAL LAYER				
ITEM			UPPER	ISOLATION	LINING	LENGTH	SIZES
1		EN 407 EN 388 4 1 3 3 4 4 2 X 4 X X	Polyacrylnitril (Preox), Aramide, chrome split leather	1-ply	Cotton FR	approx. 410 mm	
2	EN 407 4 1 3 3 4 4		Polyacrylnitril (Preox), Aramide, Para-Aramide			approx. 450 mm	11
3			Polyacrylnitril (Preox), Aramide, Para-Aramide	2-ply		approx. 440 mm	







3-FINGER GLOVES 410 + LEATHER

Accessories

Part number: 12015 71005 000 2271

Two-coloured • 3-layer construction of the glove inside • good thermal insulation of the palm • very good protection against radiant heat • high abrasion resistance of the palm.

silver/stone grey

3-FINGER GLOVES 450 + ARAMIDE

Accessories

Part number: **12015 71003 001 2269**

Two-coloured • 4-layer construction of thumb and palm • very good thermal insulation of the palm • very good protection against radiant heat • good abrasion resistance of the palm.

silver/yellow

MITTENS 440 + ARAMIDE

Accessories

Part number: **12015 71004 002 2269**

Two-coloured • 4-layer construction of thumb and palm • very good thermal insulation of the palm • very good protection against radiant heat • good abrasion resistance of the palm.

silver/yellow



Our new heat protection gloves are available in different variants, lengths and sizes and offer protection against thermal risks according to EN 407 as well as mechanical hazards according to EN 388 thanks to selected material combinations and insulation layers.

METALLISED HEAT PROTECTION GLOVES UP TO 250 °C CONTACT HEAT

			MATERIAL LAYER CONSTRUCTION				
ITEM			UPPER	ISOLATION	LINING	LENGTH	SIZES
1	FN 407	EN 407 4 1 3 2 4 4 EN 388 1 X 2 X X	Aramide, Sebatan leather	-		approx. 365 mm approx. 385 mm	11 12
2	413244		Aramid, Sebatan leather	-	C-++ FD	approx. 435 mm approx. 455 mm	11 12
3	FN 407		Aramide, Para-Aramide	-	Cotton FR	approx. 380 mm approx. 400 mm	11 12
4	423244		Aramide, Para-Aramide	-		approx. 465 mm approx. 485 mm	11 12



5-FINGER GLOVES 370 + LEATHER

Accessories

Part number: 12008 71011 002 2268

5-FINGER GLOVES 440 + LEATHER

Accessories

Part number: 12008 71011 001 2268

Two-coloured • leather sebatan pulse reinforcement • very good protection against radiant heat • high abrasion resistance and tear resistance of the palm • very good dexterity and high wearing comfort.





5-FINGER GLOVES 390 + ARAMIDE

Accessories

Part number: 12008 71012 003 2269

5-FINGER GLOVES 470 + ARAMIDE

Accessories

Part number: 12008 71012 002 2269

Two-coloured • leather sebatan pulse reinforcement • good heat insulation of the palm • very good protection against radiant heat • high tear resistance of the palm • very good dexterity and high wearing comfort.







HEAT PROTECTION GLOVES UP TO 500 °C CONTACT HEAT

	M		MATERIAL LAYER				
ITEM			UPPER	ISOLATION	LINING	LENGTH	SIZES
1	EN 407	EN 388 2 X 4 X X	Para-Aramide	1-ply		approx. 375 mm approx. 395 mm	
2	4232XX		Para-Aramide			approx. 460 mm approx. 480 mm	
3	EN 407 4332XX	EN 388 2 X 4 X X	Para-Aramide		Cottonin	approx. 390 mm	11
4	EN 407 4 2 3 2 X X	EN 388 1 X 4 X X	Glass/Aramide/PBI, Para-Aramide	2-ply		approx. 390 mm	11







5-FINGER GLOVES 370, ARAMIDE

Accessories

Part number: 01267 71012 001 20

5-FINGER GLOVES 470, ARAMIDE

Accessories

Part number: **01267 71012 000 20**

Single-coloured • finger and palm 3-ply • good thermal insulation of the palm • very high mechanical load capacity • good abrasion resistance • very good dexterity.

yellow

MITTENS GLOVE 390, ARAMIDE

Accessories

Part number: 01267 71007 000 20

Single-coloured • 3-layer construction • thumb inserted on the side • can be worn on both sides • good thermal insulation all around • very high mechanical load capacity • good abrasion resistance.

yellow

MITTENS 390 PBI/ARAMIDE

Accessories

Part number: 01191 71013 000 20

Two-coloured • 4-layer construction of hand and thumb • thumb inserted on the side • can be worn on both sides • good thermal insulation in the hands area • very high mechanical load capacity.

yellow/light brown



The heat protection equipment is rounded out by matching footwear with various aluminized gaiter models and a foundry boot certified to the EN ISO 20349-1:2017 foundry standard for molten iron and aluminum.

ITEM	COLOUR	COLOUR NO.	COLOUR NAME	MATERIAL			REGULAR SIZES
1,2		15	silver	preox/Aramide ^A	EN ISO 11612 A1/B1/C3/D3/E3/F1 (Partial body	-	One size 1 (= up to size 43)
3					`protection)´		2 (= from size 44)
4		2276	white/grey	full calf leather	-	EN ISO 20349-1	39–48

GAITERS, HOOK & LOOP FASTENING

Accessories

Part number: 12015 71008 000 15

Flame-inhibiting hook&loop fastener • adjustable width • approx. 38 cm high.

Sale unit: 1 pair



GAITERS, SNAP FASTENING

Accessories

Part number: 12015 71008 001 15

Snap fasteners closures • adjustable width • approx. 38 cm high.

Sale unit: 1 pair



SPRING GAITERS

Accessories

Part number: 12015 71009 001 15

2 covered, vertical springs in the legs • vamp with instep spring • approx. 35 cm high.

Sale unit: 1 pair



HEAT, **SPLASHES &** WELDING



Nitrile rubber soles with heat-insulated substructure



FOUNDRY BOOTS

Accessories

Part number: **14003 76025 000 2276**

Aluminised upper leather (the metallic surface reflects heat radiation) • full calf leather • bootleg constructed like roof tiles • holding rivets • Kevlar $^{\$}$ stitching thread • quick fastener • steel cap • aluminised inlay sole • nitrile bearing sole type MÜNCHEN ROT, approx. 300 °C contact heat resistant • approx. 28 cm high.