



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.

Not to mention the many other dangers lurking in job and live.





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	FABRIC WEIGHT	FABRIC NO.	<u>_</u>		REGULAR SIZES
1,2,3		41	royal	approx. 380 g/m²	01096	EN ISO 11611	EN ISO 11612 A1/B1/C1/E2/F1	46-58 & 94-110
1,2,3		52	medium grey	approx. 470 g/m²	01272	Class 2 A1	EN ISO 11612 A1/B1/C1/E3/F1	40-36 & 94-110



JACKET

Welding protection class 2 Part number: **01096 10046 000 41** Garment weight: approx. 790 g Fabric weight: approx. 380 g/m²

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: **01096 20084 003 41** Garment weight: approx. 770 g Fabric weight: approx. 380 g/m²

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: **01096 50062 001 41** Garment weight: approx. 960 g Fabric weight: approx. 380 g/m²

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.





MATERIAL: 100 % COTTON ·

FABRIC WEIGHT: approx. $380 \, g/m^2 + approx. 470 \, g/m^2 + approx.$

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

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

ľ	TEM	COLOUR	COLOUR NO.	COLOUR NAME	Ţ,		4	REGULAR SIZES
11,	,2 ,3		52	medium grey	EN ISO 11611 Class 2 A1+A2	EN ISO 11612 A1+A2/B1/C1/ E3/F1	EN 1149-5	46-58 & 94-110





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.



Standard pictograms as direct embroidery





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



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.









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 ·

FIELDS OF APPLICATION: Steel works, metalworking industry, welding companies, foundries,

plant construction, heat exposured workplaces



HB-Iron Pro

Relaunch of our bestseller for protection against liquid iron splashes (E3). Dynamic design and ergonomic fit are just as convincing as the performance: with only 420 g fabric weight, it offers the highest protection against heat radiation, welding splatters and large amounts of liquid iron. The SECAN quality guarantees flame resistance even after up to 50 industrial washes. Reflective stripes and fluorescent elements increase visibility, certified acc. to EN 17353.

ITEM	COLOUR	COLOUR NO.	COLOUR NAME			4	13	$\bigoplus_{\mathbb{C}}$	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	EN 1149-5	IEC 61482-2 APC 1	EN 17353 Type B2	46-58 & 94-110



2 practical set-in side pockets







HEAT, SPLASHES & WELDING



Trousers + bib and brace trousers are also available with knee pockets, via our highspeed service, see page 221.







1, 2 and 3 Flame-retardant reflective stripes on the leg with yellow backing, suited for industrial laundry

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 clothing acc. to EN ISO 20471 • roof tile manufacture.

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 clothing acc. to EN ISO 20471 • roof tile manufacture.

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

FIELDS OF APPLICATION: Steel works, metalworking industry, welding companies, foundries,

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plant construction, heat exposured workplaces

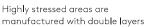


HB-4welders® 2.0

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	F		4	43	REGULAR SIZES
	1		2205	navy/medium grey		511.100.4444			
:	2 Z		458	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	46-58 & 94-110
:	21,31		52	medium grey			: :	: : :	





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 and 3 Ruler pocket with additional pen pocket



Flame-retardant stretch braces with useful fixlock buckle

Side entry with elastic knit wedge

2 and 3 Bellow pocket with additional mobile phone pocket inside



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.



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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 ·

FIELDS OF APPLICATION: Welding companies, steel works, metalworking industry, foundries,

plant construction



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
1		397	dark denim	EN ISO 11612	EN ISO 11611	46-58 & 94-110
2		2404	dark denim/dark navy	A1+A2/B1/C1/E2	Class 2 A1+A2	40-30 & 94-110



embroidery on the front • roof tile manufacture.







The denim gets a very individual used look after washing





Trim made of hightech fabric

Free hanging pocket pouches on both pockets

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 ·

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

HB-ComFlex®

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		<u></u>	REGULAR SIZES
- I		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	40-36 & 94-110
4		458	dark navy	:		46/48-58/60



BIB AND BRACE TROUSERS

Welding protection class 2

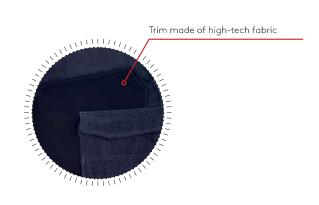
Part number: 01281 50100 008 397 (Denim)

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.











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 ·

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



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			REGULAR SIZES
1,2,3		45		EN ISO 11611	EN ISO 11612 A1/B1/C1/D3/	46-58 & 94-110
4		43	navy	Class 1 A1	E3/F1	46-58



JACKET

Liquid metal AI + 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.

HEAT, SPLASHES & WELDING





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

Liquid metal AI + 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/m² ·

FIELDS OF APPLICATION: Aluminium working industry, foundries, metalworks,

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heat exposed workplaces





HB-HeavyMetal Pro

HB-HeavyMetal Pro, available in two weight classes, is the answer to the special requirements for PPE for work involving high temperatures or molten metal. The material has good moisture management and is comfortable to wear thanks to the balanced material mix and segmented reflective stripes. The dynamic design in trendy colours and ergonomic features stand for modern PPE with a high protective function at the same time.

ITEM	COLOUR	COLOUR NO.	COLOUR NAME	FABRIC WEIGHT			4	43	$\bigoplus_{\mathbb{C}}$	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/	EN ISO 11611 Class 2		IEC 61482-2 APC 1	EN 17353 Type B2	46-58 & 94-110
		2204	navy/ anthracite grey	арргох. 450 g/т	B1/C1/D3/ E3/F1	A1+A2				
a l		45	navy	approx. 250 g/m²	EN ISO 11612 A1+A2/	EN ISO 11611			_	39/40-47/48
4		58	anthracite grey	approx. 250 g/m ⁻	B1/C1/D1/ E2/F1	A1+A2		_	-	J7/4U-4//40



2 and 3 Leg pocket with mobile phone pocket inside

2 and 3 Knee pockets with adjustable hook&loop fastening

JACKET 340

Liquid metal AI + Fe

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

Garment weight: approx. 830 g

JACKET 430

Liquid metal AI + 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 Hi-Vis protective clothing acc. to EN ISO 20471 • leasing neck label • embroidered FR standard pictograms on the front • manufactured with roof tile design.

TROUSERS 340

Liquid metal AI + Fe

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

Garment weight: approx. 730 g

TROUSERS 430

Liquid metal AI + Fe

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

Garment weight: approx. 990 g

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 • segmented FR reflective stripes, suitable for industrial laundry • no Hi-Vis protective clothing acc. to EN ISO 20471 • manufactured with roof tile design.











1 to 4 | Enjoy more freedom of movement thanks to the ergonomic cut





1 to 3 |

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

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



BIB AND BRACE TROUSERS 340

Liquid metal AI + 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 Hi-Vis protective clothing acc. to EN ISO 20471 • manufactured with roof tile design.

SHIRT

Liquid metal AI + 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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FIELDS OF APPLICATION: Aluminium working industrie, foundries, steelworks, heat-exposed workplaces





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		13	REGULAR SIZES
1,2,3		40	al acade la lece	EN ISO 11612 A1+A2/B1/C1/D3/ E3/F1	IEC 61482-2 APC 1	46-58 & 94-110
4		40	dark b l ue	EN ISO 11612 A1+A2/B1/C1/D1/ E1/F1	-	39/40-47/48



BLOUSON

Liquid metal AI + 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 AI + 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.









BIB AND BRACE TROUSERS

Liquid metal AI + 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 AI + Fe

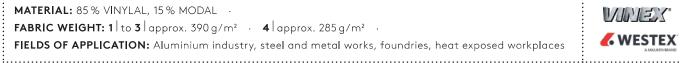
Part number: **01057 60002 004 48** Garment weight: approx. 540 g

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 ·

FIELDS OF APPLICATION: Aluminium industry, steel and metal works, foundries, heat exposed workplaces





NOMEX® Comfort light

The NOMEX® Comfort fabric shirt and NOMEX III underwear are fibre-inherent flame retardant and provide permanent flame protection. Combined with heat protective outerwear, they provide the best possible protection against the effects of heat and flame. The low material weight and comfortable interlock knit fabric offer freedom of movement even in very uncomfortable workplaces. Supplement your heat protection PPE additionally with cooling accessories.

ITEM	COLOUR	COLOUR NO.	COLOUR NAME		4	REGULAR SIZES
1		41	royal	EN ISO 11612 A1/B1/C1/F1	EN 1149-5	39/40-47/48
2 ,3		11	off white	-	-	5–8

CLASSIC SHIRT

Heat Protection

Part number: **01046 60000 008 41** Garment weight: approx. 365 g

Single-coloured • turn-down collar with added collar band • closure band with buttons • 1 front pocket on the left • wristband with buttoning • hydrophil equipment for optimised humidity transport.





Optimised humidity transport thanks to Hydrophil equipment

UNDERSHIRT

Accessories

Part number: 01205 7Z015 003 11

Single-coloured • round neckline • long-sleeve.

UNDERTROUSERS

Accessories

Part number: 01205 7Z016 003 11

Single-coloured • long • flyless.





MATERIAL: 1 98 % ARAMIDE, 2 % CARBON · 2 and 3 100 % ARAMIDE ·

FABRIC WEIGHT: 1 approx. 185 g/m² · 2 and 3 approx. 180 g/m² ·

FIELDS OF APPLICATION: Plant engineering and construction, energy suppliers, electric installation,

public services, electricians











HEAT, SPLASHES & WELDING



With our new functional underwear, you won't sweat so quickly even in the hottest weather: The very soft, light and elastic material does not restrict any movement.

ı	TEM		COLOUR NO.	COLOUR NAME		4	SIZES
1	,2	ME.	57	grey melange	EN ISO 11612 A1/B1/C1	EN 1149-5	S–2XL

FUNCTIONAL UNDERSHIRT FR

Accessories

Part number: **01289 76030 000 57** Garment weight: approx. 165 g

Single-coloured • seamless and close-tobody functional underwear • round neck • knitted flex-zones at arms, shoulders and on the sides • knitted transpiration zones under the arms and on the sides for maximum moisture transport.





Body-Mapping: Knitted transpiration zones. Moisture is transported away by transpiration zones in the

right places in the form of evaporative cooling and thus ensures a pleasant climate under your outerwear.

Body-Mapping: Flexzones provide a perfect fit and much freedom of movement







Pure functionality: Elastic and soft material producing an extreme comfortable feeling on

the skin

FUNCTIONAL UNDERTROUSER FR

Accessories

Part number: 01289 76031 000 57 Garment weight: approx. 138 g

Single-coloured • seamless and close-tobody functional underwear • integrated and highly elastic waistband • knitted flex-zones along the legs and on the back side • knitted transpiration zones for maximum humidity transport.

MATERIAL: 52% MODACRYLIC, 26% COTTON, 19% POLYAMIDE, 2% CARBON, 1% ELASTANE,

FABRIC WEIGHT: approx. 165 g/m²

FIELDS OF APPLICATION: Heat and flame exposed workplaces, energy suppliers, public services,

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plant engineering and construction, electricians



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	-	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

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3-D COOL® Technology: Fast and long-lasting cooling a clear cooling effect for several hours via evaporative

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.



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.



Flame-retardant plastic buckle

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

.....

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

FIELDS OF APPLICATION: Heat and flame exposed workplaces, energy suppliers, public services,

plant engineering and construction, electricians



TEMPEX®-TREME HEAT

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
Part 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/F2
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 222).

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

.....





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.











FOUNDRY COAT

Metalized heatprotection (C3)
Part number: **12003 41030 000 15 (KF-3/Z)**

Garment weight: approx. 1,520 g

More sizes available - see size table on page 228

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 • back protection with hook & loop fastener • ergonomic sleeves • sleeve width adjustable via snap fastener inside • all seams with FR thread • length: approx. 130 cm.



TEMPEX®-TREME HEAT CLASSIC

2ITO WEAR

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

MAT. NO.	MATERIAL	COLOUR	COLOUR NO.	COLOUR NAME		SIZES
12003	KF-3/Z		15	silver	EN ISO 11612 A1/B1/C3/D3/E3/F1	One size

versions are 21 TO WEAR® the **model overview** on page 222/223.





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 • all seams with FR thread • length: approx. 100 cm.

TEMPEX®-TREME HEAT COMFORT

21TO 21WEAR HEAT, SPLASHES & WELDING



In the COMFORT program we offer all models in the materials CK-12/Z and

AW-1/Y for high wearing comfort and protection. The jacket has hook & loop or snap fastener, ergonomic and width-adjustable sleeves as well as different lengths, the trousers have a comfort waistband and a hem-length hook & loop fastener.

MAT. NO.	MATERIAL	COLOUR	COLOUR NO.	COLOUR NAME		REGULAR SIZES
12014	CK-12/Z				EN ISO 11612 A1/B1/C3/D3/E3/F1	
12008	AW-1/Y		15	silver	EN ISO 11612 A1/B1/C4/D3/ E3/F2	46/48–58/60





JACKET

Metalized heatprotection (C3)

Part number: 12008 11180 000 15 (AW-1/Y)

Garment weight: approx. 805 g

Ergonomic sleeves, width adjustable via snap fastener inside • 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: 12014 21000 001 15 (CK-12/Z)

Garment weight: approx. 780 g

TROUSERS

Metalized heatprotection (C3)

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

Garment weight: approx. 920 g

Sewn-in adjustable braces • covered zip fly with snap fastener • covered zip fly with hook &loop fastener • comfort waistband with side elastic band • 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

Foundry coat, sleeve apron and bib apron are also offered in the two lightweight and soft materials with excellent protection against larger iron and aluminum splashes (D3 and E3) and the highest level of protection against radiant heat C4 (AW-1/Y). The COMFORT design here also includes ergonomically shaped sleeves, walking slit on the coat, several length and closure options, among others.

MAT. NO.	MATERIAL	COLOUR	COLOUR NO.	COLOUR NAME		REGULAR SIZES
12014	CK-12/Z				EN ISO 11612 A1/B1/C3/D3/E3/F1	46/48–58/60
12008	AW-1/Y		15	si l ver	EN ISO 11612 A1/B1/C4/D3/ E3/F2	Bib apron: One size



FOUNDRY COAT

Metalized heatprotection (C3) Part number: **12014 41130 001 15 (CK-12/Z)** Garment weight: approx. 1,150 g

FOUNDRY COAT

Metalized heatprotection (C4)
Part number: **12008 41130 001 15 (AW-1/Y)**Garment weight: approx. 1,310 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.



2TO ZIWEAR HEAT, SPLASHES & WELDING









APRON WITH SLEEVES

Metalized heatprotection (C4)

Part number: 12008 71130 000 15 (AW-1/Y)

Garment weight: approx. 1,005 g

Neckline with FR molleton • opening with covered hook&loop fastener • hook&loop fastener on the back • back protection with hook&loop fastener • 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 (C4)
Part number: 12008 71131 000 15 (AW-1/Y)

Garment weight: approx. 520 g

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

Further available length: 110 cm.



TEMPEX®-TREME HEAT COMFORT Plus

2TTO ZIWEAR

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 walking.

MAT. NO.	MATERIAL	COLOUR	COLOUR NO.	COLOUR NAME		REGULAR SIZES
12014	CK-12/Z	•			EN ISO 11612 A1/B1/C3/D3/E3/F1	
12008	AW-1/Y		15	silver	EN ISO 11612 A1/B1/C4/D3/ E3/F2	46/48–58/60



Covered pleat or alternatively: Walking slit at the back for greater walking comfort

1 and 2

Lined stand-up collar with flameretardant cotton lining

Ventilation option for maximum wearing comfort

Ergonomic shaped sleeves for more freedom of movement

Sleeve width adjustable via snap fastener inside



versions are available via our 21 TO WEAR®

1 and 2 Inner hook& loop fastener

FOUNDRY COAT

Metalized heatprotection (C3)

Part number: 12014 41130 021 15 (CK-12/Z)

Garment weight: approx. 1,180 g

FOUNDRY COAT

Metalized heatprotection (C4)

Part number: **12008 41130 021 15 (AW-1/Y)**

Garment weight: approx. 1,330 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.

JACKET

Metalized heatprotection (C3)

Part number: 12014 11180 020 15 (CK-12/Z)

Garment weight: approx. 710 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.



TEMPEX®-TREME HEAT

HEAT, SPLASHES & WELDING



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.

• • • • • • • • • • • • • • • • • • • •		• • • • • • • • • • • • • • • • • • • •	• • • • • • • • • • • • • • • • • • • •			
MAT. NO.	MATERIAL	COLOUR	COLOUR NO.	COLOUR NAME		REGULAR SIZES
12003	KF-3/Z				EN ISO 11612 A1/B1/C3/D3/E3/F1	
12008	AW-1/Y		15	si l ver	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. $415\,\mathrm{g}$

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.





TEMPEX®-TREME HEAT

2TO 2 WEAR

Our aluminised heat protective clothing is complemented by compatible face and head protection as well as additional protection for the arms. Helmet cover, face shield and sleeve cuff can be combined individually - as well as the matching visors and heat protection glasses.

HELMET COVER

Accessories

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

Garment weight: approx. 184g

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).

One size silver Standards:





versions are 21 TO WEAR® the **model** overview on page 222/223.



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.

One size silver Standards:







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.

One size silver Standards:





HEAT, SPLASHES & WELDING



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 • anti-static, 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 gold

PROTECTIVE HELMET POLY

Accessories

Part number: 90022 7Z006 012 + COLOUR NO.

Straight shell with rain gutter • manufactured from fibreglass-reinforced 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

FLIP-UP MOUNTING

Accessories

Part number: 90002 7Z019 004 15

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

One size

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

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





EN 397



Standards:



397 EN 50365



Standards:



EN 166







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.

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.

silver

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.

dark blue



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.

gold Standards:



EN 171

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.

gold Standards:



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:



EN 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:



EN 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







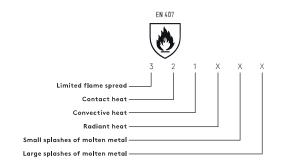


TEMPEX®-TREME HEAT

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.



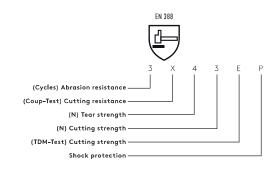
Test		Performance Level						
	1	2	3	4				
Combustion behavior Afterflame time (in sec.) Afterglow time (in sec.)	< 20 n.r.	< 10 < 120	< 3 < 25	< 2 < 5				
Contact heat Contact temperature Tc (in °C) Threshold t1 (in sec.)	100 > 15	250 > 15	350 > 15	500 > 15				
Convective Heat Heat Transfer Index HTI (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 cyc l es)	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 (MATERIAL LAYER CONSTRUCTION :				
ITEM			UPPER	ISOLATION	LINING	LENGTH	SIZES	
1	EN 407 413344	EN 388	Polyacrylnitril (Preox), Aramide, chrome split leather	Half wool non-woven	-1	approx. 410 mm		
2				Polyacrylnitril (Preox), Aramide, Para-Aramide	Half wool non-woven Preox-Felt	Flame retardant impreg- nated	approx. 450 mm	11
3			Polyacrylnitril (Preox), Aramide, Para-Aramide	Half wool non-woven Preox-Felt	molleton	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.

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.

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.



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		$\overline{}$	UPPER	ISOLATION	LINING	LENGTH	SIZES
1	EN 407		Aramide, Sebatan leather	-	Flame retardant impreg- nated molleton	approx. 365 mm approx. 385 mm	11 12
2	413244		Aramid, Sebatan leather	-		approx. 435 mm approx. 455 mm	11 12
3	EN 407	1 X 2 X X	Aramide, Para-Aramide	-		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

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

:			MATERIAL LAYER CONSTRUCTION				
ITEM			UPPER	ISOLATION	LINING	LENGTH	SIZES
1	EN 407		Para-Aramide	Half wool non-woven		approx. 375 mm approx. 395 mm	11 12
2	4232XX		Para-Aramide	Half wool non-woven	Flame retardant	approx. 460 mm approx. 480 mm	11 12
3	EN 407 4 3 3 2 X X	EN 388 2 X 4 X X	Para-Aramide	Half wool non-woven	·	approx. 390 mm	11
4	EN 407 4232XX	EN 388 1 X 4 X X	Glass/Aramide/PBI, Para-Aramide	Half wool non-woven Preox-Felt	molleton	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.

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.

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.



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					EN ISO 11612 A1/B1/C3/D3/	One size
3		15	silver	preox/Aramide	E3/F2 (Partial body protection)	1 (= up to size 43) 2 (= from size 44)

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 \bullet quick fastener \bullet steel cap \bullet aluminised inlay sole \bullet nitrile bearing sole type MÜNCHEN ROT, approx. 300 °C contact heat resistant • approx. 28 cm high.

Sizes: 39–48 · Sale unit: 1 pair

white/grey

Standards:



EN ISO 20349-1