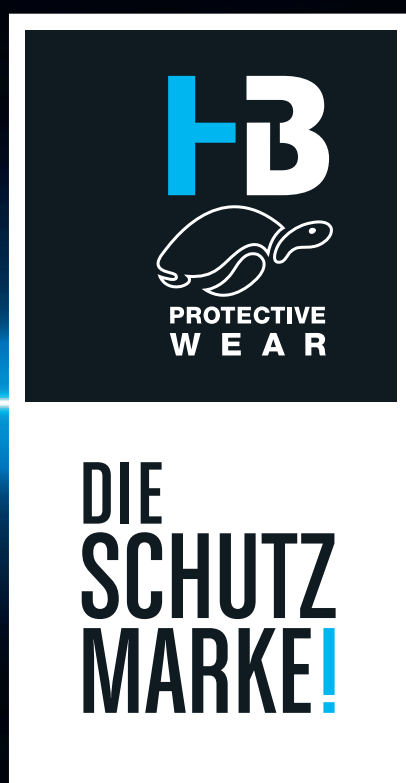


GENERAL CATALOGUE 2025

PROTECTIVE WEAR



PHILOSOPHY

HB
PROTECTIVE
WEAR



ARC &
ENERGY



ARC FLASH PROTECTION

HEAT, SPLASHES AND
WELDING PROTECTION

HEAT,
SPLASHES &
WELDING



CHEMICALS



CHEMICAL PROTECTION

HIGH VISIBILITY AND
WEATHER PROTECTION

HIVIS &
WEATHER



COLD
PROTECTION



COLD PROTECTION

TECHNICAL ASSISTANCE,
RESCUE, AREA FIRE FIGHTING
AND DAY SHIFT WEAR

FIRE &
RESCUE
SERVICES



ESD
ELECTRO-
STATIC
DISCHARGE



ESD PRODUCT PROTECTION

CLEANROOM
PRODUCT PROTECTION

CLEANROOM
& DUST





EDITORIAL

HB PROTECTIVE WEAR – DIE SCHUTZMARKE!

Dear Sir or Madam,
Dear business partners and customers,

With our 2025 general catalogue, we are presenting you four new collections and many new women's items with which we are comprehensively expanding our product lines. This year, our collections will once again be staged by our employees.

The new **HB-ArcSelect® Pro**, which is available in both protection classes 1 and 2, is designed to meet the special requirements of arc flash protection. The collection can be used in a wide range of applications fields thanks to improved visibility according to EN 17353. It is comfortable to wear and available in three colour combinations.

With **HB-WeldersFORCE®**, we have added to our range two specialised lines for welding protection in four colours and two weights. All versions are designed in the same look to ensure that employees are uniformly equipped.

The new **TEMPEX® COLD Pro** collection has been specially designed for use in leasing. It is certified in accordance with ISO 15797 and suitable for use down to -49°C. A matching inner jacket can either be buttoned in for additional protection against the cold or alternatively worn on its own in the light cooling range.

HB-CHEMprotect is the first chemical protection made from recycled polyester in our range. The comprehensive collection made from a pleasantly lightweight fabric also offers permanent antistatic properties, making it the ideal solution for many specialised manufacturing processes. Like all our products made from environmentally friendly materials, they also have the "Green Turtle" label and are labelled with a turtle with a green leaf fin.

Further examples of our commitment to environmental protection and sustainability are our ISO 14001 certification, which we successfully completed this year, and our Ecovadis Bronze Medal award, which immediately placed us in the top 100 in the manufacturing industry.

If you would like to find out more about our range, our activities and all the latest news about the company and the HB Protective Wear brand, please subscribe to our newsletter at www.hb-online.com/en/service/newsletter or follow us on social media. We will keep you up to date there.

And now I hope you enjoy exploring the wide range of offers in our new catalogue!

Klaus Berthold
CEO
Owner of HB Protective Wear



Scan me:
HB-Newsletter



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HEAT, SPLASHES AND WELDING PROTECTION

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PROTECTION AND RESPONSIBILITY THROUGH MARKET-LEADING PRODUCTS AND STRONG CORPORATE VALUES.

DIE SCHUTZ MARKE!



HB PROTECTIVE WEAR

DIE SCHUTZMARKE

Desirable safety is our brand essence: for more than 70 years, we have been providing clothing that protects people from hazards in the workplace. During this time, we have grown continuously, strategically expanding our range of PPE and strengthening our international market position.

The consistent focus on protection and quality, the competence of our employees and the constant commitment to sustainability and corporate values shaped by medium-sized companies are the reasons for the continuing success of the HB Protective Wear brand.

Today, HB Protective Wear stands for a unique and highly specialised range of products and is one of the market leaders in Germany and Europe. We owe our high profile not least to our trademark – the turtle. With its shell, it has the most personal of all protective equipment and is optimally adapted to different dangerous situations.

In our endeavour to always offer the best possible solution, we pursue every day anew with great passion the goal of making our brand values tangible for our customers: personal, predictable and powerful.

Committed to the HB Protective Wear brand, we will continue on this path in the future: firmly connected to our site in Thalhausen, appreciative in our dealings with employees and business partners, innovative and ready for change, committed to society and the environment, and focused on protecting people at their workplace.

WE EARN THE TRUST OF OUR CUSTOMERS THROUGH OUR CONSISTENT FOCUS ON PPE.





HB PROTECTIVE WEAR

BE SAFE. WE CARE.



As the only manufacturer in Germany, we have always focused exclusively on the development of protective clothing. We have PPE in our DNA and know the diverse requirements. We continuously safeguard our standards, material and processing expertise through close cooperation with all important stakeholders and regularly keep our employees up to date.

The result is a versatile range of innovative protective clothing that is convincing not only in its breadth but also in its depth.

We place particular emphasis on flexibility and individuality: that is why we offer our customers protective clothing that naturally fulfils the required standard profile, but can also be tailored to the respective company CI.

This is where our offers such as READY TO WEAR or our modular system for metallised heat protection come in, which make it very easy to adapt to the respective requirements and individual needs.

AS A HIGHLY SPECIALISED MANUFACTURER, WE ALSO PLACE HIGH DEMANDS ON QUALITY ASSURANCE.





HB PROTECTIVE WEAR

A HIGH LEVEL OF RESPONSIBILITY



Category III PPE items must be monitored as part of a conformity assessment procedure in accordance with the Personal Protective Equipment Regulation VO (EU) 2016/425. HB carries out this monitoring in accordance with the Module D procedure. In an annual audit and certification by a notified body, our entire production and quality assurance process is checked and confirmed. The certification according to Module D underlines the high demands that we, as a manufacturer with a high degree of specialisation in PPE, place on the quality and safety of our products.

Through the significantly extended scope of testing, we increase the safety and quality of our protective clothing and give the customer an even better feeling when deciding on our products. In addition to reducing costs, the conservation of resources is of particular importance. Furthermore, this process gives us increased flexibility and allows us to react more quickly to customer needs.

HIGH CUSTOMER FOCUS THROUGH NEEDS-ORIENTED SOLUTIONS AND LOGISTICAL EFFICIENCY.





HB PROTECTIVE WEAR

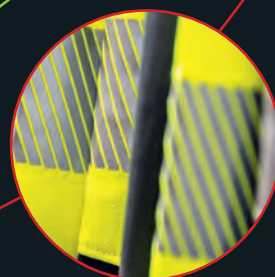
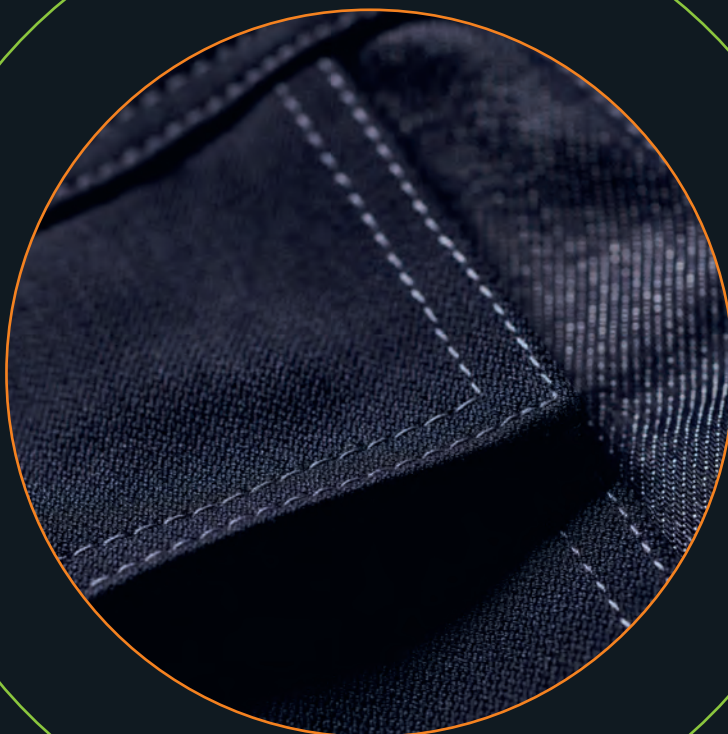
CLOSE TO THE CUSTOMER NOT ONLY IN TERMS OF DELIVERY

We are optimally positioned in every respect to live customer proximity. Our production sites are mainly concentrated in the European region. The central hub of all logistical processes are our warehouses of over 4,000 m², which offer space for up to 500,000 products. This enables us to quickly deliver more than 1.5 million garments per year.

If a garment is not available from stock, our high-speed 21 TO WEAR® delivery service ensures that the customer does not have to wait longer than 21 days for it. Additional flexibility is offered by our READY TO WEAR service, which supplies smaller customers with individually configurable PPE, or our web shop.

After all, we do not only want to supply our customers quickly, but also to reach the most diverse needs and demands through an unprecedentedly differentiated product range and customised service. That is why we always support our customers with competent advice and personal service.

WE MANAGE OUR COMPANY IN A VALUE-ORIENTED AND RESPONSIBLE MANNER.





HB PROTECTIVE WEAR

FAIR AND RESPONSIBLE: OUR CORPORATE BEHAVIOUR

Fair dealings with employees and business partners have always been an integral part of our corporate culture.

And commercial virtues such as honesty, partnership-based thinking and a humane tone in business still determine our actions today. We have set out the overriding maxims of conduct that guide us as a company in our own Code of Conduct, which can be viewed on our website.

Our Code of Conduct commits us to conducting our business in harmony with the concerns of society. Through regular social audits, we ensure that it is implemented in all our production facilities. We also expect our suppliers to comply with the standards and principles we have formulated.

WE SUPPORT OUR EMPLOYEES AND MAKE POSITIVE CONTRIBUTIONS TO SOCIETY.





HB PROTECTIVE WEAR

COMMITMENT TO EMPLOYEES AND SOCIETY



For us, success can only be sustainable if we let our employees share in it and give something back to society. We can only be good in the long term if the people who work for us are doing well. And we can only last if we see ourselves as part of society and get involved.

This means, for example, that we promote the balance between work and family through flexible working hours and our own day care centre, which is free of charge for our employees. We place special emphasis on our apprenticeships and our training and coaching programmes. And those who want to do something for their health can use our company gym - also free of charge. Long-term employee loyalty shows that people feel good at HB.

We show further commitment by supporting charitable institutions in our region with regular donations. But it is also a tradition for our international production companies to support charitable causes of their choice at their respective locations.

ON THE WAY TO THE MOST SUSTAINABLE PRODUCTS, CERTIFIED BY VARIOUS INDEPENDENT TEXTILE STANDARDS.



sustain**HB**ility



HB PROTECTIVE WEAR

ALL SIGNS ON GREEN

Nature and environmental protection are already anchored in our brand logo: the green sea turtle is our trademark. We feel a lasting connection to it and contribute to its conservation as a long-standing supporter of a conservation programme. Complemented by a green leaf fin, you will find it in our sustainability logo and on our "Green Turtle" icon, your signpost to products made from recycled materials.

In addition to the proven durability and repairability of our products, we also focus on the use of sustainable fibres and ingredients such as organic cotton and recycled polyester. For selected items, we therefore also use the Organic 100 Content Standard (OCS), which specifies the use of at least 95% certified organic materials, as well as the Organic Blended Content Standard and the Global Recycled Standard, which focuses on the recovery of processed raw materials and the products contain at least 20% recycled materials.

In order to provide the wearers of our protective clothing with the best possible sustainable protection, the ARC & ENERGY, HEAT SPLASHES & WELDING, COLD PROTECTION, FIRE & RESCUE SERVICES, ELECTROSTATIC DISCHARGE and CLEANROOM & DUST ranges already include numerous products certified to OEKO-TEX® STANDARD 100 – which you can read in our certificates no. 23.HDE.11802, 23.HDE.53928, 24.HDE.87650, 24.HDE.50189 and 24.HDE.21094.



THE RESPECTIVE APPLICATION AREA OF USE IS CRUCIAL FOR CHOOSING THE PPE.





HB PROTECTIVE WEAR

WHAT IS BETTER THAN PROTECTION? THE RIGHT PROTECTION

Our working world is becoming more and more complex, and the variety of tasks in the workplace is increasing. Multi-risk PPE makes sense in many cases because it can protect against multiple risks. However, it should be borne in mind that this also involves compromises. This is because the more standards that are fulfilled in a qualified manner, the more expensive the fabric usually becomes and the more complex the manufacture.

The decisive factor in choosing the right PPE is that it is appropriate for the specific work situation. It is not so much a question of how many standards the protective clothing covers, but rather where exactly it is to be used and how well it protects against the potential hazards at the site of operation.

A precise examination of the areas of use and hazards is therefore also essential for multi-risk clothing. Which protective functions are really needed to decide whether the “specialist” is more in demand or whether many standards make sense, we clarify in the personal consultation together with the customer. The only decisive factor is the best possible protection at the respective workplace.

Our multi-risk products therefore do not form a separate product segment, but are integrated into the individual categories – easily recognisable by the multi-risk logo.

ARC & ENERGY

YOU DON'T FOLLOW A HERD, YOU LEAD IT

With our extensive Arc & Energy range,
we offer the right clothing for many highly specialised work areas
and fields of application. It reliably protects against arc flash
and the risk of flammability, while impressing with a level of wearing comfort
that feels completely natural, and not just in the workplace.












Model: Romy, certification
Collection: HB-4Energy®

HB-SecureAllround®

The proven multifunctional blended fabric covers a wide range of standards and convinces with its pleasant wearing comfort.

The versatile products can also be designed according to your own ideas:

Simply choose your desired combination from 6 different colours.

ITEM	COLOUR	COLOUR NO.	COLOUR NAME							REGULAR SIZES
1 ,2 ,3 ,4		3026	dark blue/ medium grey/red	IEC 61482-2 APC 1	EN ISO 11612 A1+A2/B1/C1/ E2/F1	EN ISO 11611 Class 1 A1+A2	EN 1149-5	EN 13034 Type 6	ISO 15797	46-58 & 94-110

FIELDS OF APPLICATION: Plant engineering and construction, energy suppliers, electric industry and installation, public services, electricians



JACKET 4ka

Arc flash class 1

Part number: **01128 10134 020 3026**

Garment weight: approx. 1,240 g

Three-coloured • stand-up collar • front with zip fastener with attached closure band and covered snap fasteners • 2 attached breast pockets with flap and covered snap fasteners • 1 inner pocket • side pockets with zip and with flap and covered snap fasteners • snap fasteners for adjusting sleeve width • leasing label • FR standard pictograms on the front.



TROUSERS 4ka

Arc flash class 1

Part number: **01128 20081 050 3026**

Garment weight: approx. 1,060 g

Three-coloured • waistband elasticated at the side • waistband fastening with covered patented buttons on both sides • front zip • 2 wingpockets • 1 back pocket with flap and covered snap fasteners • 1 thigh pocket with 1 interior mobile phone/pen pocket and flap with covered snap fasteners.



1 collection – more than 1,000 possibilities

The product images show one of many versions. Find detailed information in this catalogue (page 240) and at www.hb-ready-to-wear.com

These colours are available:



Also reflective stripes available – and certification acc. to EN 17353 high-visibility protection  included!



The equipment with different pockets and reflective stripes is freely selectable. With HB-SecureAllround® and our **READY TO WEAR** system, you can configure your PPE completely individually. And all delivered within 21* days.

Closure band with snap fasteners covered on both sides



COVERALL 4ka

Arc flash class 1

Part number: **01128 30014 050 3026**

Garment weight: approx. 1,590 g

Three-coloured • turndown collar • front with snap fastening covered on both sides • 2 patched breast pockets with flap and covered snap fasteners • 1 inside breast pocket with hook&loop fastening • 2 side pockets with flaps • sleeve width adjustable with snap fasteners • neck label • 1 back pocket • 1 thigh pocket with 1 interior mobile phone/pen pocket – each with flap and covered snap fasteners • FR standard pictograms on the arms.

4 |



Elasticated section for kidney protection

2, 3 and 4 | Thigh pocket with 1 interior mobile phone/pen pocket

BIB AND BRACE TROUSERS 4ka

Arc flash class 1

Part number: **01128 50061 050 3026**

Garment weight: approx. 1,340 g

Three-coloured • stretch braces • front zip fastener • interior bib pocket with flap • 2 wing pockets • 2 side accesses with button fastening • 1 back pocket, 1 thigh pocket with 1 interior mobile phone/pen pocket – each with flap and covered snap fasteners • elasticated kidney protection.

*Outside Germany, delivery will take a few days longer. We accept no liability for delivery delays due to force majeure beyond the control of the seller.

MATERIAL: 75 % COTTON, 24 % POLYESTER, 1 % CARBON // FC-Equipment: fluorocarbon finish












FABRIC WEIGHT: approx. 350 g/m²

ATPV VALUE: 17.3 cal/cm² • 724.3 kJ/m² • **HAF VALUE:** 84.1 %

HABETEX®

HB-ArcSelect® Pro

Our new HB-ArcSelect® Pro collection is designed to meet the special requirements of electric arc protection and can be used in a wide range of activities. The high cotton content and soft feel of the material make it very comfortable to wear, comparable to leisurewear.

ITEM	COLOUR	COLOUR NO.	COLOUR NAME							REGULAR SIZES
1		2041	navy/royal	IEC 61482-2 1-ply: APC 1 2-ply: APC 2* *Front part and sleeves/ front trousers	EN ISO 11612 A1+A2/B1/ C1/F1	EN ISO 11611 Class 1 A1+A2	EN 1149-5	EN 17353 Type B2	ISO 15797	46-58 & 94-110
		2081	anthracite/red							
		2382	anthracite/medium grey							
2 , 3		45	navy							
		58	anthracite							

FIELDS OF APPLICATION: Electricians and electric industries, public services, plant engineering, pipeline and line construction, steel works, gas and water networks, metal industry, switch gear construction



BLOUSON 4kA

Arc flash class 1

Part number: **01228 10000 017 + COLOUR NO.**

Garment weight: approx. 950 g

BLOUSON 7kA/4kA

Arc flash class 2

Part number: **01228 10000 018 + COLOUR NO.**

Garment weight: approx. 1,100 g

Two-coloured • stand-up collar • covered front zip with covered snap fastener • 2 attached breast pockets with flaps and covered snap fasteners • side pockets with flaps and covered snap fastener • 1 inner pocket with hook & loop fastener • sleeve width adjustable via snap fasteners • leasing neck label • embroidered FR standard pictograms on the front • reflective elements suitable for industrial laundry on front, back and sleeves • no high-visibility protective clothing acc. to EN ISO 20471.





Standard pictograms as flame-retardant direct embroidery



Industrially washable reflective stripes, certified to EN 17353 B2, provide improved visibility



2 |



TROUSERS 4ka

Arc flash class 1

Part number: **01228 20000 015 + COLOUR NO.**

Garment weight: approx. 760 g

TROUSERS 7ka/4ka

Arc flash class 2

Part number: **01228 20000 016 + COLOUR NO.**

Garment weight: approx. 870 g

Single-coloured • waistband with button and zip-fly • 2 slant pockets • 1 hip pocket with flap and covered snap fastener • 1 ruler pocket on the right with flap and snap fastener • 1 bellow pocket on the right with flap and snap fastener • knee pockets with hook & loop fastener • reflective elements • flame-retardant reflective stripes suitable for industrial laundry • no high-visibility protective clothing acc. to EN ISO 20471.












MATERIAL: 87 % COTTON, 12 % POLYAMIDE, 1 % CARBON

FABRIC WEIGHT: approx. 340 g/m² (2-ply: + approx. 280 g/m²)

4ka: ATPV VALUE: 13.0 cal/cm²

HB-ArcSelect® Pro

The extensive protective performance, the care with industrial laundry and the improved visibility which has been added to the standard profile meet the highest demands on PPE and represent modern multifunctional protective clothing. The contemporary look and high-quality manufacture round off the perfect profile of this multi-risk collection.

ITEM	COLOUR	COLOUR NO.	COLOUR NAME							REGULAR SIZES
1		2041	navy/royal	IEC 61482-2 1-ply: APC 1 2-ply: APC 2*	EN ISO 11612 A1+A2/B1/ C1/F1	EN ISO 11611 Class 1 A1+A2	EN 1149-5	EN 17353 Type B2	ISO 15797	46-58 & 94-110
		2081	anthracite/red							
		2382	anthracite/medium grey							
2 , 3		45	navy	*Front part and sleeves/ front trousers						
		58	anthracite							

FIELDS OF APPLICATION: Electricians and electric industries, public services, plant engineering, pipeline and line construction, steel works, gas and water networks, metal industry, switch gear construction

2 and 3 | Front trousers available as 1-ply or 2-ply version
Electric Arc Flash protection 4kA or 7kA/4 kA



BIB AND BRACE TROUSERS 4kA

Arc flash class 1
Part number: **01228 50100 013 + COLOUR NO.**
Garment weight: approx. 960 g

BIB AND BRACE TROUSERS 7kA/4kA

Arc flash class 2
Part number: **01228 50100 014 + COLOUR NO.**
Garment weight: approx. 1,050 g

Single-coloured • stretch straps with fix-lock clip • front with zip-fly • bib with outer pocket with flap and covered snap fastener • 2 slant pockets • 1 hip pocket with flap and covered snap fastener • 1 ruler pocket on the right with flap and snap fastener • 1 bellow pocket on the right with flap and snap fastener • knee pockets with hook&loop fastener • flame-retardant reflective stripes suitable for industrial laundry • no high-visibility protective clothing acc. to EN ISO 20471.



POSSIBLE COMBINATIONS – IN 2 PROTECTION CLASSES



High performance combined with soft material: HB-ArcSelect® Pro offers reliable protection and a comfortable fit throughout the working day. Improved visibility according to EN 17353 is also provided. The repair-friendly design of the collection supports the concept of sustainability.


















MATERIAL: 87 % COTTON, 12 % POLYAMIDE, 1 % CARBON

FABRIC WEIGHT: approx. 340 g/m² (2-ply: + approx. 280 g/m²)

4kA: ATPV VALUE: 13.0 cal/cm²

HB-ArcSelect® Pro

Our HB-ArcSelect® Pro shirt and the completely double-layered coat made of the popular cotton-polyamide blend increase safety at workplaces exposed to arc hazards as an additional layer of clothing. This makes them the perfect addition to many heat, flame and arc flash protection collections. The jacket also covers large areas of the body and provides the best possible 7kA all-round protection.

ITEM	COLOUR	COLOUR NO.	COLOUR NAME						REGULAR SIZES
1		41	royal						37/38 – 47/48
		45	navy						
		52	medium grey						
		22	orange						
2		45	navy					Only Finisher	46/48 – 58/60

FIELDS OF APPLICATION: Plant construction, pipeline and line construction, electricians, public services, steel works, switch gear construction, communication, gas and water networks

Standard pictograms as direct embroidery



HB logo as direct embroidery

Ergonomic sleeves



Attached pocket with flap and covered snap fasteners



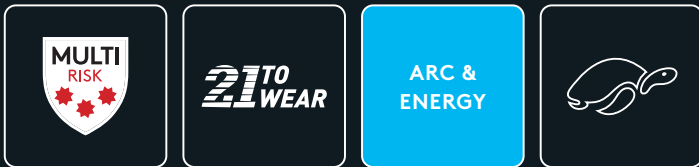
SHIRT 4kA

Arc flash class 1

Part number: **01227 60026 001 + COLOUR NO.**

Garment weight: approx. 560g

Single-coloured • Comfort Fit • regular turn down collar • front closure with snap fasteners covered on both sides • 1 attached pocket with flap and covered snap fasteners • ergonomic sleeves with protective sleeve vent and adjustable snap fasteners • FR leasing label • standard pictograms as flame retardant direct embroidery on the right cuff.



2 |

7kA all-round protection:
Material is completely 2-layer



Moving pleat on the back

MEN'S COAT 7kA

Arc flash class 2

Part number: **01004 40030 001 45**

Garment weight: approx. 1,650 g

Single-coloured • completely 2-layered • high band collar • front with covered 2-way zipper plus hook&loop fastener • 2 vertical side pockets with covered zipper • moving pleat for easy walking on the back • sleeve hem with adjustable hook&loop fastener • FR leasing label • standard pictograms on the left sleeve.









MATERIAL: 87 % COTTON, 12 % POLYAMIDE, 1 % CARBON .

1 | : ATPV VALUE: 12.3 cal/cm² • **HAF VALUE:** 82.3 % • **FABRIC WEIGHT:** approx. 280 g/m² .

2 | : ATPV VALUE: 40.0 cal/cm² • **HAF VALUE:** 91.0 % • **FABRIC WEIGHT:** approx. 340 g/m² + approx. 265 g/m²

HB-4arc®

Our high-end electric arc protection HB-4arc® is suitable for extreme load thanks to its particular high ATPV. It meets the requirements of IEC 61482-2 class 2 (7kA/4kA) and additionally offers heat, flame and welder's protection as well as antistatic properties. The material is partly doubled, very stable and tear-resistant. Wearing HB-4arc® provides you with much comfort and safety.

ITEM	COLOUR	COLOUR NO.	COLOUR NAME						REGULAR SIZES
1		2205	navy/medium grey	IEC 61482-2 APC 2*	EN ISO 11612 A1+A2/B1/C1/ E3/F1	EN ISO 11611 Class 2 A1+A2	EN 1149-5	ISO 15797	46-58 & 94-110
2, 3		458	navy	* Front part and sleeves/ front trousers					
		52	medium grey						

FIELDS OF APPLICATION: Electrical installation, public services, energy suppliers, plant construction, electricians

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



BLOUSON 7kA/4kA

Arc flash class 2

Part number: **01237 10125 002 2205**

Garment weight: approx. 1,291g

Two-coloured • front parts and sleeves 2-ply • high-band collar with covered snap fastener • stitching in contrast colour offwhite • 2 side pockets with zip • 2 front pockets (as mobile phone pocket on the right) with flap and covered snap fastener • waistband and adjustable sleeve hems with covered snap fasteners • FR piping suitable for industrial laundry • leasing label • standard pictograms on the front as FR direct embroidery.

Electric Arc Flash protection 7kA/4kA



2 and 3 |
Ruler pocket with
additional pen pocket

2 |



Flame-retardant
stretch braces with
useful fixlock buckle

Side entries with
elastic knitted wedge

2 and 3 |
Cargo pocket with
additional mobile
phone pocket inside

2 and 3 |
Front trousers 2-ply

3 |



TROUSERS 7ka/4ka

Arc flash class 2

Part number: **01237 20060 037 + COLOUR NO.**

Garment weight: approx. 1,152 g

Single-coloured • front trousers 2-ply • stitching in contrast colour off-white • added waistband with covered buttoning • zip fly • 2 slant pockets • 1 hip pocket on the right, 1 ruler pocket on the right leg (+ pen pocket) and 1 cargo pocket on the left leg (+ mobile phone pocket) – each with flap and covered snap fastener • shaped knees • knee pockets with adjustable covered hook&loop fastener.

BIB AND BRACE TROUSERS 7ka/4ka

Arc flash class 2

Part number: **01237 50041 068 + COLOUR NO.**

Garment weight: approx. 1,361 g

Single-coloured • front trousers 2-ply • contrast stitching in off-White • fix lock stretch braces • bib with outer pocket and flap • zip-fly • two-side entries with elastic knitted wedge • 2 slant pockets • 1 hip pocket on the right, 1 ruler pocket on the right leg (+ pen pocket) and 1 cargo pocket on left leg – each with flap and covered snap fastener • shaped knees • knee pockets with adjustable covered hook&loop fastener.










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

FABRIC WEIGHT: approx. 390 g/m² + approx. 250 g/m²

ATPV VALUE: 20.0 cal/cm² • 836.8 kJ/m² • **ELIM:** 16.0 cal/cm²



HB-MODarc® is high-quality arc flash PPE that can be perfectly combined and adapted to different purposes. The soft and lightweight fabric offers a good fit with plenty of freedom of movement and, thanks to the cotton, a high level of wearer comfort. The 2-layer models are double-worked at crucial points.

ITEM	COLOUR	COLOUR NO.	COLOUR NAME							REGULAR SIZES
1		2251	grey/black	IEC 61482-2						
		2251	grey/black	1-ply: APC 1	EN ISO 11612 A1+A2/B1/ C1/F1	EN ISO 11611 Class 1 A1+A2	EN 1149-5	EN 13034 Type 6	ISO 15797 Washing temperature 60°C	46-58 & 94-110
2, 3		2188	black/grey	2-ply: APC 2* *Front part and sleeves/ front trousers						

FIELDS OF APPLICATION: Public services, energy suppliers, plant construction, electrical installation

21 TO WEAR

Ladies models as well as more colours available in just 21 days. See page 236.

Formed elbows for more movement freedom



BLOUSON 4kA

Arc flash class 1
Part number 4kA: **01072 10107 034 2251**
Garment weight: approx. 835 g

BLOUSON 7kA/4kA

Arc flash class 2
Part number 7kA/4kA: **01072 10107 035 2251**
Garment weight: approx. 910 g

Two-coloured • raw white contrast stitching • stand-up collar with covered snap fastener • covered zip • 2 front pockets (one as an attached pocket) with flap, covered snap fastener and tab to open • 1 inner pocket left with snap fastener • 2 side pockets with zip • sleeve hem adjustable with snap fastener covered on inside • attached waistband with covered snap fastener • leasing label • standard pictograms on front as FR direct stitching.



TROUSERS 4kA

Arc flash class 1

Part number 4kA: **01072 20074 002 + COLOUR NO.**

Garment weight: approx. 730 g

TROUSERS 7kA/4kA

Arc flash class 2

Part number 7kA/4kA: **01072 20074 003 + COLOUR NO.**

Garment weight: approx. 845 g

Two-coloured • raw white contrast stitching • waistband with covered button closure • zip fly • 2 slant pockets • 1 hip pocket on the right and 1 bellows pocket on the left with additional, attached pocket - each with flap, covered snap fastener and tab to open • 1 ruler pocket on the right (+pen pocket) • 2 knee pockets outside with hook&loop fastener.

2 |



2 and 3 |

Bellows pocket with additional attached pocket

2 and 3 |

Knee pockets with hook&loop fastener

BIB AND BRACE TROUSERS 4kA

Arc flash class 1

Part number 4kA: **01072 50055 002 + COLOUR NO.**

Garment weight: approx. 855 g

BIB AND BRACE TROUSERS 7kA/4kA

Arc flash class 2

Part number 7kA/4kA: **01072 50055 003 + COLOUR NO.**

Garment weight: approx. 970 g

Two-coloured • raw white contrast stitching • stretch braces with fixlock buckle • bib with outer pocket with flap and covered snap fastener • straight kidney protection • 2 side accesses with stretch gusset • zip fly • 2 slant pockets • hip pocket on the right and bellows pocket on the left with additional, attached pocket, each with flap and covered snap fastener • ruler pocket on the right (+pen pocket) • knee pockets.

3 |



2 and 3 |

Front trousers available as 1-ply or 2-ply version.

**Electric Arc
Flash protection
4 kA or 7 kA/4 kA**

MATERIAL: 55 % MODACRYLIC, 43 % COTTON, 2 % CARBON

FABRIC WEIGHT: approx. 275 g/m² (2-ply: + approx. 175 g/m²)













4kA: ATPV VALUE: 10.4 cal/cm² • 468.9 kJ/m² • **HAF VALUE:** 80.2 %

7kA/4kA: EBT50 VALUE: 20.0 cal/cm² • 837.3 kJ/m² • **HAF VALUE:** 88.9 %

HABETEX

HB-MODarc®

Our popular HB-MODarc® collection with reflective stripes is now certified acc. to EN 17353 for improved visibility. Again, the 2-layer models of this high-performance and modern arc-fault protective clothing are double-worked at the front, sleeves and front trousers and thus protect against electric arcs up to 7kA.

ITEM	COLOUR	COLOUR NO.	COLOUR NAME								REGULAR SIZES
1		2251	grey/black	IEC 61482-2					EN 17353 Type B3		
		2041	navy/royal	1-ply: APC 1							
2 , 3		2251	grey/black	2-ply: APC 2*	EN ISO 11612 A1+A2/B1/C1/F1	EN ISO 11611 Class 1 A1+A2	EN 1149-5	EN 13034 Type 6	EN 17353 Type B2	ISO 15797 Washing temperature 60°C	46-58 & 94-110
		2188	black/grey	* Front part and sleeves / front trousers							
		45	navy								
FIELDS OF APPLICATION: Public services, energy suppliers, plant construction, electrical installation											

21 TO WEAR

Ladies models as well as more colours available in just 21 days. See page 236.

Higher visibility:

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

Front part and sleeve available as 1-ply or 2-ply version

Electric Arc Flash protection 4kA or 7kA/4kA

Completely manufactured in roof-tile design

Reflective stripes, suited for industrial laundry

Band collar with covered snap fastener



BLOUSON 4kA REFLECTIVE STRIPES

Arc flash class 1

Part number 4kA: **01072 10107 050 + COLOUR NO.**

Garment weight: approx. 895g

BLOUSON 7kA/4kA REFLECTIVE STRIPES

Arc flash class 2

Part number 7kA/4kA: **01072 10107 051 + COLOUR NO.**

Garment weight: approx. 970g

Two-coloured • raw white contrast stitching • stand-up collar with covered snap fastener • covered zip • 2 front pockets (1 as an attached pocket) with flap, covered snap fastener and tab to open • 1 inner pocket left with snap fastener • 2 side pockets with zip • sleeve hem adjustable with snap fastener covered on inside • attached waistband with covered snap fastener • leasing label • standard pictograms on front as FR direct stitching • flame-retardant reflective stripes suitable for industrial laundry • no high-visibility protective clothing acc. to EN ISO 20471.





2 and 3 | Front trousers available as 1-ply or 2-ply version
Electric Arc Flash protection 4kA or 7kA/4kA

2 and 3 | Bellows pocket with additional attached pocket

2 and 3 | Reflective stripes, suited for industrial laundry



TROUSERS 4kA REFLECTIVE STRIPES

Arc flash class 1

Part number 4kA: **01072 20074 037 + COLOUR NO.**
01072 20074 039 45

Garment weight: approx. 765g

TROUSERS 7kA/4kA REFLECTIVE STRIPES

Arc flash class 2

Part number 7kA/4kA: **01072 20074 038 + COLOUR NO.**
01072 20074 040 45

Garment weight: approx. 880g

Two-coloured • raw white contrast stitching • waistband with covered button closure • zip fly • 2 slant pockets • 1 hip pocket on the right and 1 bellows pocket on the left with additional attached pocket – each with flap, covered snap fastener and tab to open • 1 ruler pocket on the right (+pen pocket) • knee pockets with hook&loop fastener • flame-retardant reflective stripes suitable for industrial laundry • no high-visibility protective clothing acc. to EN ISO 20471.

BIB AND BRACE TROUSERS 4kA REFLECTIVE STRIPES

Arc flash class 1

Part number 4kA: **01072 50055 031 + COLOUR NO.**
01072 50055 033 45

Garment weight: approx. 890g

BIB AND BRACE TROUSERS 7kA/4kA REFLECTIVE STRIPES

Arc flash class 2

Part number 7kA/4kA: **01072 50055 032 + COLOUR NO.**
01072 50055 034 45

Garment weight: approx. 1,005g

Two-coloured • raw white contrast stitching • stretch braces with fixlock buckle • bib with outer pocket with flap and covered snap fastener • straight kidney protection • 2 side accesses with stretch gusset • zip fly • 2 slant pockets • hip pocket on the right and bellows pocket on the left with additional attached pocket – each with flap and covered snap fastener • ruler pocket on the right (+pen pocket) • knee pockets • flame-retardant reflective stripes suitable for industrial laundry • no high-visibility protective clothing acc. to EN ISO 20471.

MATERIAL: 55 % MODARCRYLIC, 43 % COTTON, 2 % CARBON











FABRIC WEIGHT: approx. 275 g/m² (2-ply: + approx. 175 g/m²)

4kA: ATPV VALUE: 10.4 cal/cm² • 468.9 kJ/m² • **HAF VALUE:** 80.2 %

7kA/4kA: EBT50 VALUE: 20.0 cal/cm² • 837.3 kJ/m² • **HAF VALUE:** 88.9 %

HABETEX®

Now also for women: As an additional layer of clothing, our shirts increase the protective function and thus extend the possible uses of PPE. The intelligent clothing solutions in our extensive HB-MODarc® collection thus cover many areas of work. Our new sweatshirt even offers arc fault class 2 and stands for a contemporary PPE look.

ITEM	COLOUR	COLOUR NO.	COLOUR NAME						REGULAR SIZES
1 2	 	45 521	navy cement grey	IEC 61482-2 APC 1	EN ISO 11612 A1+A2/B1/ C1/F1	EN 1149-5	EN 13758-2	-	S-2XL
2	 	228 50	orange light grey						2XS-L
3 4		45	navy	IEC 61482-2 APC 2	EN ISO 11612 A1/B1/C1			ISO 15797	S-2XL
5									

FIELDS OF APPLICATION: Plant construction, pipeline and line construction, electricians, public services, steel works, switch gear construction, communication, gas and water networks, network engineers



POLO SHIRT 4ka, LONG SLEEVE

Arc flash class 1

Part number: **01244 80011 011 + COLOUR NO.**

Garment weight: approx. 300 g

Single-coloured • piqué polo-shirt • collar with board and covered snap fasteners • sleeve cuff with modern covering seam • leasing label • seams in contrast colour • standard pictograms as flame retardant direct embroidery on the right sleeve cuff.

1 and 2 |
Standards pictograms
as flame retardant
embroidery



2 |



T-SHIRT 4ka, LONG SLEEVE

Arc flash class 1

Part number: **01244 80010 007 + COLOUR NO.**

Garment weight: approx. 295 g

Single-coloured • piqué T-shirt • round neck • sleeve cuff with modern covering seam • leasing label • seams in contrast colour • standard pictograms as flame retardant direct embroidery on the right sleeve cuff.



3 |

LADIES POLO SHIRT 4ka, LONG SLEEVE

Arc flash class 1

Part number: **01244 80022 000 45**

Garment weight: approx. 270 g

Single-coloured • piqué polo-shirt • collar with board and covered snap fasteners • sleeve cuff with modern covering seam • leasing label • seams in contrast colour • standard pictograms as flame retardant direct embroidery on the right sleeve cuff.



4 |

LADIES T-SHIRT 4ka, LONG SLEEVE

Arc flash class 1

Part number: **01244 80022 002 45**

Garment weight: approx. 265 g

Single-coloured • piqué T-shirt • round neck • sleeve cuff with modern covering seam • leasing label • seams in contrast colour • standard pictograms as flame retardant direct embroidery on the right sleeve cuff.



5 |

SWEATSHIRT 7ka

Arc flash class 2

Part number: **01279 80023 005 45**

Garment weight: approx. 650 g

Single-coloured • round neck • sleeve with knitted cuffs • knitted waistband • standard pictograms as FR direct embroidery on the lower left sleeve • leasing label.

1 | to 4 | **MATERIAL:** 54% MODACRYLIC, 44 % COTTON, 2% CARBON

ATPV VALUE: 6.4 cal/cm² • **HAF VALUE:** 70.1 % • **FABRIC WEIGHT:** approx. 215 g/m²











5 | **MATERIAL:** 54% MODACRYLIC, 44 % COTTON, 2% CARBON

ATPV VALUE: 6.4 cal/cm² • 794.96 kJ/m² • **FABRIC WEIGHT:** approx. 405 g/m²

HABETEX

HB-PROtection®

Modern and comfortable arc fault protection: that is HB-PROtection®. The lightweight material mix convinces in arc flash performance. The extremely soft fabric ensures a good fit and plenty of freedom of movement. The processed cotton creates a pleasant wearing sensation. The 2-layer 7kA/4kA models are double-worked at the front and sleeves.

ITEM	COLOUR	COLOUR NO.	COLOUR NAME							REGULAR SIZES
1		2177	navy/dark grey	IEC 61482-2 1-ply: APC 1						
2, 3		2175	dark grey/navy	2-ply: APC 2* * Front part and sleeves/ front trousers	EN ISO 11612 A1+A2/B1/ C1/F1	EN ISO 11611 Class 1 A1+A2	EN 1149-5	EN 13034 Type 6	ISO 15797	46-58 & 94-110
1		2177	navy/dark grey	IEC 61482-2 APC 2						
2		2175	dark grey/navy							

FIELDS OF APPLICATION: Metal industry, public services, electricians, pipeline and line construction, communication, gas and water networks

21 TO WEAR

Also ladies models
available – in just 21 days.
See page 236.



The 7kA version is completely doubled



Sleeve hem with
gusset and covered
hook&loop fastener

JACKET 4kA

Arc flash class 1
Part number 4kA: **01072 10112 020 2177**
Garment weight: approx. 835 g

JACKET 7kA/4kA

Arc flash class 2
Part number 7kA/4kA: **01072 10112 018 2177**
Garment weight: approx. 910 g

JACKET 7kA

Arc flash class 2
Part number 7kA: **01072 10112 019 2177**
Garment weight: approx. 945 g

Two-coloured • stand-up collar with covered snap fastener • covered zip • 2 breast pockets with covered zip fastener, left pocket with tap to open • 1 inner breast pocket with additional pen pocket and hook&loop fastener • 2 side pockets with zip fastener • sleeve hem with reflective pipes • no high-visibility protective clothing acc. to EN ISO 2047 and EN 17353 • back with 2 movement pleats • elongated back as kidney protection • sleeve opening with gusset • sleeve hem with gusset and covered hook&loop fastener • added waistband • FR standard pictograms on the front.



TROUSERS 4kA

Arc flash class 1

Part number 4kA: **01072 20074 017 2175**

Garment weight: approx. 730 g

TROUSERS 7kA/4kA

Arc flash class 2

Part number partially 7kA/4kA: **01072 20074 018 2175**

Garment weight: approx. 795 g

TROUSERS 7kA

Arc flash class 2

Part number 7kA: **01072 20074 035 2175**

Garment weight: approx. 860 g

Two-coloured • waistband with covered button closure • zip fly • ergonomic knees • 2 slant pockets • 2 hip pockets and 2 bellow pockets – each with flap and covered snap fasteners • knee pockets with reflective pipes • no high-visibility protective clothing acc. to EN ISO 20471 and EN 17353.



BIB AND BRACE TROUSERS 4kA

Arc flash class 1

Part number 4kA: **01072 50055 015 2175**

Garment weight: approx. 855 g

BIB AND BRACE TROUSERS 7kA/4kA

Arc flash class 2

Part number partially 7kA/4kA: **01072 50055 016 2175**

Garment weight: approx. 970 g

Two-coloured • stretch braces with fixlock buckle • straight kidney protection • elastic waistband all around • 2 side access with gusset • slit with zip • ergonomic knees • 2 slant pockets • bib pocket with covered snap fastener • 2 hip pockets • 2 bellow pockets – each with flap and covered snap fastener • knee pockets with reflective pipes • no high-visibility protective clothing acc. to EN ISO 20471 and EN 17353.

MATERIAL: 55 % MODACRYLIC, 43 % COTTON, 2 % CARBON

FABRIC WEIGHT: approx. 275 g/m² (2-ply: + approx. 175 g/m²)




4kA: ATPV VALUE: 10.4 cal/cm² · 435 kJ/m² · **HAF VALUE:** 80.2 %

7kA/4kA: EBT50 VALUE: 20.0 cal/cm² · 837.3 kJ/m² · **HAF VALUE:** 88.9 %

HB-PROtection

HB-PROtection® Green Turtle

Our HB-PROtection® Green Turtle shirt is made with organic cotton. It offers modern design as well as a comfortable, ergonomically improved "Comfort Fit". The fabric has a very low weight and provides most high wearing comfort – and inherent flame retardancy. Additionally it offers reliable protection against Arc Flash and antistatic properties. Therefore, it is suited for many working areas and the perfect complement for many HB product lines.

ITEM	COLOUR	COLOUR NO.	COLOUR NAME						REGULAR SIZES
1	 	45 52	navy medium grey	IEC 61482-2 APC 1	EN ISO 11612 A1+A2/B1/ C1/F1	EN 1149-5	EN 13758-2	ISO 15797	39/40–47/48
2		45	navy						36–48

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

Band collar with covered snap fastener

1 |



1 | On request the shirt is also available in tight fitting "Body Fit".

Part number: **01251 60025 000 + COLOUR-NO.**

 45 navy  52 middle grey

SHIRT 4kA

Arc flash class 1

Part number: **01251 60026 000 + COLOUR-NO.**

Garment weight: approx. 440 g

Single-coloured • Comfort Fit • turn-down collar with snap fastener • 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.



Embroidered standard pictograms



What is the Organic Content Standard?



Organically grown cotton according to OCS 100 has been used in this shirt. Organic Content Standard 100 enables independent assessment, verification and traceability of the exact organic fiber content in the product. The OCS 100 certificate confirms that the organic content of the cotton used is at least 95%.



Dart at chest height



LADIES SHIRT 4ka

Arc flash class 1

Part number: **01251 60029 000 45**

Garment weight: approx. 390 g

Single-coloured • Comfort Fit • turn-down collar with snap fastener • front zipper with covered snap fastener on both sides • preformed sleeves • dart at chest height • 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.









MATERIAL: 54% MODACRYLIC, 44% COTTON (organic), 2% CARBON

FABRIC WEIGHT: approx. 195 g/m²

ATPV VALUE: 6.9 cal/cm² • 288.7 kJ/m² • **EBT50 VALUE:** 7.1 cal/cm² • **ELIM:** 6.4 cal/cm²



HB-MODarc&vis® stands for modern multifunctional PPE and is suitable for work applications that require several standards in combination with warning and arc flash protection. The combination of blouson and trousers or bib and brace trousers achieves high visibility protection class 3. The two-layer models are doubled at the front, sleeves and front trousers and offer protection against electric arcs up to 7kA/class 2.

ITEM	COLOUR	COLOUR NO.	COLOUR NAME								REGULAR SIZES
1 2 3		2112	fluorescent yellow/ navy	EN ISO 20471 Blouson: Class 2 Trousers, Bib and brace trousers: Class 1	IEC 61482-2 1-ply: APC 1 2-ply: APC 2* *Front part and sleeves/ front trousers	EN ISO 11612 A1+A2/B1/C1/F1	EN ISO 11611 Class 1 A1+A2	EN 1149-5	EN 13034 Type 6	ISO 15797 Washing temperature 60°C	46-58 & 94-110

FIELDS OF APPLICATION: Public services, public transport and construction, electricians, energy suppliers

21 TO WEAR

Also ladies models available – in just 21 days.
See page 236.



Front part and sleeve available as 1-ply or 2-ply version
Electric Arc Flash protection 4kA or 7kA/4kA

Reflective stripes, suitable for industrial laundry

Pockets with handy tab to open



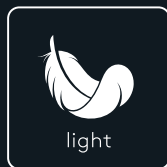
BLOUSON 4kA

Arc flash class 1
Part number 4kA: **01072 10107 028 2112**
Garment weight: approx. 940g

BLOUSON 7kA/4kA

Arc flash class 2
Part number 7kA/4kA: **01072 10107 033 2112**
Garment weight: approx. 1,055g

Two-coloured • parts subject to heavy soiling in blue • raw white contrast stitching • stand-up collar with covered snap fastener • covered 2-way zip • 2 front pockets with flaps, covered snap fasteners and tab to open • 1 inner pocket left with snap fastener • 2 side pockets with zip • sleeve hem adjustable with snap fastener covered on inside • attached waistband with covered snap fastener • standard pictograms on front as FR direct stitching • flame-retardant reflective stripes suitable for industrial laundry.



1, 2 and 3 | Achieves as suit
(blouson combined with trousers
or bib and brace trousers)
EN ISO 20471 Class 3

TROUSERS 4kA

Arc flash class 1

Part number 4kA: **01072 20074 000 2112**

Garment weight: approx. 815 g

TROUSERS 7kA/4kA

Arc flash class 2

Part number 7kA/4kA: **01072 20074 001 2112**

Garment weight: approx. 915 g

Two-coloured • parts subject to heavy soiling in blue • raw white contrast stitching • attached waistband with covered button closure • slit with zip-fly • 2 slant pockets • 1 hip pocket on the right and 1 bellows pocket on the left with additional attached pocket- each with flap, covered snap fastener and tab to open • 1 pocket for folding rule on the right (+ pen pocket) with flap • knee pockets with hook&loop fastener • flame-retardant reflective stripes suitable for industrial laundry .

2 |



2 and 3 | Front trousers available as 1-ply or 2-ply version
Electric Arc Flash protection 4kA or 7kA/4kA

BIB AND BRACE TROUSERS 4kA

Arc flash class 1

Part number 4kA: **01072 50055 000 2112**

Garment weight: approx. 910 g

BIB AND BRACE TROUSERS 7kA/4kA

Arc flash class 2

Part number 7kA/4kA: **01072 50055 001 2112**

Garment weight: approx. 1,040 g

Two-coloured • parts subject to heavy soiling in blue • stretch braces with fixlock buckle • straight kidney protection • 2x side access with stretch gusset • slit with zip • 2 slant pockets • bib pocket, hip pocket on the right and bellows pocket on the left with additional attached pocket – each with flap and covered snap fastener • folding rule pocket on the right (+ pen pocket) with flap • knee pockets • flame-retardant reflective stripes suitable for industrial laundry.

3 |



2 and 3 | Cargo pocket + attached pocket

2 and 3 | Flame-retardant reflective stripes

MATERIAL: 55% MODACRYLIC, 43% COTTON, 2% CARBON .










FABRIC WEIGHT: approx. 275 g/m² (2-ply: + approx. 175 g/m²) .

4kA: ATPV VALUE: 10.4 cal/cm² · 435.4 kJ/m² · **HAF VALUE:** 80.2 % .

7kA/4kA: EBT50 VALUE: 20.0 cal/cm² · 837.3 kJ/m² · **HAF VALUE:** 88.9 %

HABETEX®
HI-VISION®

Our most comprehensive product line HB-MODarc&vis®, which we present on the following pages, is a universal talent. The shirts offer multi-risk protection for underneath – and in summer also for outside! They are suitable for work areas that require multiple standards in combination with UV and high visibility. The FR vest with hi-vis protection is the ideal complement for many applications.

ITEM	COLOUR	COLOUR NO.	COLOUR NAME							REGULAR SIZES
1		2397	fluorescent orange/ navy	EN ISO 20471 Class 2	IEC 61482-2 APC 1	EN ISO 11612 A1/B1/C1/F1	EN 1149-5	EN 13758-2	-	S-2XL
2		2112	fluorescent yellow/navy			EN ISO 11612 A1+A2/B1/ C1/F1				XS-L
3		2112	fluorescent yellow/navy			EN ISO 11612 A1+A2/B1/ C1/F1 Partial body protection				1-4

FIELDS OF APPLICATION: Plant construction, pipeline and line construction, electricians, public services, steel works, switch gear construction, communication, gas and water networks



POLO-SHIRT 4kA LONG SLEEVE

Arc flash class 1

Part number: **01270 80012 003 2397**

Garment weight: approx. 350g

With reflective stripes circumferentially.

POLO-SHIRT 4kA LONG SLEEVE

Arc flash class 1

Part number: **01270 80012 006 2397**

Garment weight: approx. 350g

With reflective stripes like braces.

Two-coloured • long sleeves • collar with polo placket • closure band with flame-retardant snap fasteners • contrast stitching in raw white • flexible segmented and flame-retardant reflective stripes • standard pictograms as direct stitching on the bottom of the right sleeve • leasing label inside on the back.





POLO-SHIRT 4ka LONG SLEEVE

Arc flash class 1

Part number: **01244 80012 003 2112**

Garment weight: approx. 300 g

LADIES POLO-SHIRT 4ka LONG SLEEVE

Arc flash class 1

Part number: **01244 80022 001 2112**

Garment weight: approx. 250 g

Two-coloured • long sleeves • collar with polo placket • closure band with flame-retardant snap fasteners • contrast stitching in raw white • flexible segmented and flame-retardant reflective stripes • standard pictograms as direct stitching on the bottom of the right sleeve • leasing label inside on the back.



Reflective stripes,
suitable for industrial laundry



Hook&loop fastener

21^{TO}
WEAR

VEST HIGH VIS FR

High-Visibility FR

Part number: **01072 10129 001 2112**

Garment weight: approx. 435 g

Two-coloured • round design, contrast stitchings in off-white • front closure via hook&loop fastener • HB logo as direct embroidery on back • flame-retardant reflective stripes attached in body language.

1 |, 2 | MATERIAL: 49 % POLYESTER, 30 % MODACRYLIC, 20 % COTTON, 1 % CARBON

FABRIC WEIGHT: approx. 245 g/m²

ATPV VALUE: 8.9 cal/cm² • **ELIM:** 6.8 cal/cm²

3 |, 4 | MATERIAL: 54 % MODACRYLIC, 44 % COTTON, 2 % CARBON • **FABRIC WEIGHT:** approx. 225 g/m²










ATPV VALUE: 6.4 cal/cm² • 267.78 kJ/m² • **HAF VALUE:** 70.1 %

5 | MATERIAL: 55 % MODACRYLIC, 43 % COTTON, 2 % CARBON • **FABRIC WEIGHT:** approx. 275 g/m²

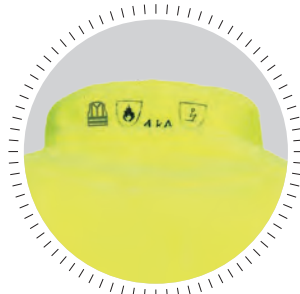
HABETEX®
HI-VISION®

HB-MODarc&vis®

Breathable, windproof and highly functional – these are the softshell and fleece jackets in our versatile HB-MODarc&vis® range. Whether multi-risk protection plus welding protection or flame protection plus protection for cooler days: the jacket can be used flexibly and is thus the ideal clothing for every season, suitable for many different work applications. NEW: our sweatshirt as modern alternative for inside and outside works.

ITEM	COLOUR	COLOUR NO.	COLOUR NAME								REGULAR SIZES
1		2007	fluorescent yellow/dark blue	EN ISO 20471 Class 2	EN 14058 Class 1	IEC 61482-2 APC 1	EN ISO 11612 A1/B1/C2/F1		–	–	S–2XL
2		2112	fluorescent yellow/navy			IEC 61482-2 APC 2	EN ISO 11612 A1/B1/C1	EN 1149-5	EN 13758-2	ISO 15797	XS–4XL

FIELDS OF APPLICATION: For electricians, mains technicians and plant engineers, network engineers, in particular with public utility companies/energy suppliers



Standard pictograms as direct embroidery on the collar



Extended back with drawstring



Reflective stripes, suitable for industrial laundry

FLEECE JACKET 4kA

Arc flash class 1

Part number: **07015 19080 001 2007**

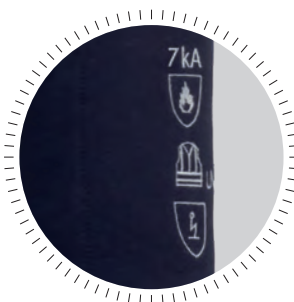
Garment weight: approx. 1,090g

Two-coloured • standard pictograms on the stand-up collar as flame-retardant direct embroidery • covered two-way zip below snap-fastener closure band • 2 side pockets with zip • sleeves with additional inner knitted wristband and wind-blocker • extended back with drawstring • flame-retardant reflective stripes in body-language for perfect all-around visibility.



Comfortable knitted cuffs

Standard pictograms as direct embroidery on the collar



SWEATSHIRT 7kA

Arc flash class 2

Part number: **01279 80023 004 2112**

Garment weight: approx. 670 g












3-coloured • round neck • sleeve cuff with knitted cuffs • knitted waistband • stretchable and segmented flame retardant reflective stripes • standard pictograms as FR direct embroidery on the lower left sleeve • leasing label.

- 1 | MATERIAL:** 48 % MODACRYLIC, 32 % COTTON, 18 % POLYESTER, 2 % CARBON · **FABRIC WT.:** approx. 360g/m² ·
- 2 | MATERIAL:** 54 % MODACRYLIC, 44 % COTTON, 2 % CARBON · **FABRIC WEIGHT:** approx. 405 g/m² ·
- 2 | ATPV VALUE:** 19.0 cal/cm² · 794.96 kJ/m²

HI-VISION®

HB-MODarc&vis®

The HB-MODarc&vis® parka with liner is suitable for a wide range of applications and thanks to the elaborate roof tile processing also for handling liquid metals. With the zip-in inner fleece it is unbeatable in cold weather. For optimum protection, the collar is reinforced with aramid fabric on the inside.

ITEM	COLOUR	COLOUR NO.	COLOUR NAME									REGULAR SIZES
1		2047	black/navy	-	-	-	-	-	-	-	EN 14058 Class 1	S-2XL
2		2112	fluorescent yellow/navy	EN ISO 20471 Class 2	EN 343 Class 3/3	IEC 61482-2 APC 2	EN ISO 11612 A1+A2/B1/C1/E1/F1	EN ISO 11611 Class 1 A1+A2	EN 1149-5	EN 13034 Type PB (6)	-	
3		45	navy	Certification only in combination with parka								

FIELDS OF APPLICATION: Energy suppliers, public services, plant responsible, liquid metal works, steel works, metal construction, electricians, public transport areas, petrochemistry, catenary construction



Optimised fit



FLEECE JACKET FR

Outdoor

Part number: **07015 19095 000 2047**

Garment weight: approx. 700 g

Two-coloured • high band collar • closure band with zip fastener for closing or zipping into our HB-MODarc&vis® parkas • various buttons for fixation in parka • elastic wrist-band • material certified acc. to EN ISO 11612 A1/B1/C1/F1.



3 | Combinable with zippable Inner fleece FR (1 |) on left page.



FR standard pictograms embroidered on the collar

2 |



Patchable reflective stripes

Optimised Fit

PARKA 7ka

Arc flash class 2

Part number: **01072 19098 000 2112**

Garment weight: approx. 1,630 g

Two-coloured • flame-retardant upper material with liner • sealed seams • high band collar with covered buttons for hood attachment • hood suitable for wearing with or without helmet • covered 2-way zip fastener plus drip moulding with snap fasteners • 1 front pocket on the left, 1 mobile phone pocket (bellows) on the right, covered with laminated weather protection, and 2 side pockets (bellows) – each with flap and covered snap fastener • flame-retardant reflective stripes, suitable for industrial laundry • wristbands with strap and hook&loop fastener • FR standard pictograms on the collar.

HOOD

Arc flash class 2

Part number: **01072 79004 000 45**

Garment weight: approx. 140 g

Single-coloured • flame-retardant upper material with liner • sealed seams • to be attached via buttons, and suitable to be worn with or without helmet • attached visor • field of vision adjustable via cord • height adjustable via cord at back of head • certification only in combination with parka.

3 |



For buttoning to band collar

1 | **MATERIAL:** 48 % MODACRYLIC, 32 % COTTON, 18 % POLYESTER, 2 % CARBON

FABRIC WEIGHT: approx. 360 g/m²





2 | **MATERIAL:** 55 % MODACRYLIC, 43 % COTTON, 2 % CARBON // With liner

FABRIC WEIGHT: approx. 275 g/m²

OUTER PLY: **ATPV VALUE:** 10.4 cal/cm² • 435.4 kJ/m² • **HAF VALUE:** 80.2 %

HABETEX®
INOTEC®

Safety even in problematic weather plus antistatic as well as additional protection against chemicals, heat, flames, welding spatter and electric arcs. This high-visibility and weather protection outfit with direct laminate is lightweight, windproof and 100 % water repellent. It can be perfectly combined with many other models of the HB-MODarc&vis® series.

ITEM	COLOUR	COLOUR-NO.	COLOUR NAME								REGULAR SIZES
1		2112	fluorescent yellow/navy	EN ISO 20471 Class 3	EN 343 Class 3/4	IEC 61482-2 APC 2	EN ISO 11612 A1/B1/C1/F1	EN ISO 11611 Class 1 A1	EN 1149-5	EN 13034 Type 6	S-2XL
2				EN ISO 20471 Class 1		IEC 61482-2 APC 1					
3				Certification only in combination with parka							
											One size

FIELDS OF APPLICATION: Work in public places with additional hazards by arcs and flames, energy providers (also Off-shore industry), alternative energie providers, petrol chemistry, steelworks, electricians



Reflective stripes, suitable for industrial laundry



Elongated back

PARKA 7kA

Arc flash class 2

Part number: **05019 19071 013 2112**

Garment weight: approx. 1,665g

Two-coloured • flame-retardant upper material as direct laminate • sealed seams • design with round shapes • contrast stitching in off-white • high band collar with zip fastener for hood attachment • covered 2-way zip fastener plus drip moulding • elongated back • 1 inner Napoleon pocket on the left and 2 side pockets and 1 inner pocket on the left – each with zip fastener • waist adjustment via drawstring • wristbands adjustable via hook&loop fastener • flame-retardant reflective stripes • standard pictograms as direct embroidery on the front.

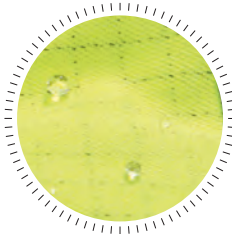


Wristband adjustable via hook&loop fastener



21ST TO WEAR

ARC &
ENERGY



1 to 3 |
100 % water-repellent

BIB TROUSERS 4ka

Arc flash class 1

Part number: **05019 29000 006 2112**

Garment weight: approx. 1,060 g

Two-coloured • flame-retardant upper material as direct laminate • sealed seams • parts subject to heavy soiling in navy blue • adjustable elastic braces • high kidney protection with elastic • elasticated side access • 2 slant pockets • 1 hip and 1 bellows leg pocket – each with flap, covered hook&loop fastening and tab to open • adjustable foot width thanks to additional material and zip.



Reflective stripes, suitable for industrial laundry

Foot width adjustable with PCV-Zip thanks to additional material



HOOD

Arc flash class 2

Part number: **05019 79006 001 2112**

Garment weight: approx. 200 g

Two-coloured • flame-retardant upper material as direct laminate • sealed seams • design with round shapes • separate hood, attachable via zip fastener and suited for wearing with/without helmet, with added peak • hood's field of vision adjustable via cord • hood height adjustable via hook&loop fastener at back of head.



MATERIAL: 55 % MODACRYLIC, 43 % COTTON, 2 % CARBON, POLYURETHAN-MEMBRANE




FABRIC WEIGHT: approx. 300 g/m²

OUTER PLY: ATPV VALUE: 22.2 cal/cm² · 929.3 kJ/m² · **HAF VALUE:** 87.8 %

HABETEX®
HI-VISION®

HB-4Energy®

Great look, pleasant material and highly functional: HB-4Energy® combines lightweight rip-stop fabric with stretchy and abrasion-resistant elements to protect in all the right places. Elastic parts provide exceptionally high wearing comfort with plenty of freedom of movement. This modern multi-risk collection meets the current zeitgeist as it covers many work areas and is a real eye-catcher because of the different material structures.

ITEM	COLOUR	COLOUR-NO.	COLOUR NAME	IEC 61482-2 1-ply: APC 1	EN ISO 11612 A1/B1/ C1/F1	EN ISO 11611 Class 1 A1	EN 1149-5	EN 13034 Type 6	EN ISO 20471 Class 1	ISO 15797 Washing temperature 60°C	REGULAR SIZES
1		4027	fluorescent yellow/ dark blue/navy						EN ISO 20471 Class 2		
2 , 3		4027	fluorescent yellow/ dark blue/navy	2-ply: APC 2*							
		4028	dark blue/fluores- cent yellow/navy	*Front part and sleeves/ front trousers 1					EN ISO 20471 Class 1		46-58 & 94-110

FIELDS OF APPLICATION: Plant construction, electric installation, public services, electricians, pipeline construction, switch gear construction, networks (communication, gas, water), renewable energies



Jacket combined with light trousers achieves as suit
EN ISO 20471 Class 3.



1 |

Elastic elements in the chest-arnpit area and in the shoulder blade

Resistant and dirt-repellent material on shoulders, upper arms, elbows and cuffs

1, 2 and 3 |

In the models with arc fault protection class 2, the material is doubled at the front sides and on the sleeves as well as on the front legs, and offers 7kA protection there



Elastic elements in the shoulder blade

JACKET 4kA

Arc flash class 1

Part number: **01288 10219 000 4027**

Garment weight: approx. 950g

JACKET 7kA/4kA

Arc flash class 2

Part number: **01288 10219 001 4027**

Garment weight: approx. 1,170g

2-coloured • stand-up collar • covered zip with covered snap fasteners • 2 breast pockets with covered snap fasteners and flap • 2 breast pockets with covered snap fasteners and flap • 1 inner breast pocket with snap fastener • 2 side pockets with zip • reflective elements on breast pockets • back extension as additional kidney protection • sleeves with knitted cuffs as wind guard inside and outside with adjustable hook & loop fastener • segmented reflective stripes • standard pictograms as FR direct embroidery on front left.



2 and 3 |

Elastic elements at the sides of the waistband, in the pocket opening, at the back of the trousers and in the crotch provide relief during kneeling activities

2 |



Side entry with elastic wedge

3 |



2 and 3 |

Resistant and dirt-repellent material on knee pockets and at the bottom of the inner leg

TROUSERS 4kA

Arc flash class 1

Part number: **01288 20156 002 4027**

Part number: **01288 20156 000 4028**

Garment weight: approx. 770 g

TROUSERS 7kA/4kA

Arc flash class 2

Part number: **01288 20156 003 4027**

Part number: **01288 20156 001 4028**

Garment weight: approx. 950 g

2-coloured • waistband raised at the back • reinforced belt loops • slit with zip • 2 wing pockets with trim and reflective elements • 2 back pockets with flap and press studs • 1 ergonomic ruler pocket on the right, 1 leg pocket on the left - both free-hanging and with flap, the leg pocket as bellows pocket with inside mobile phone pocket • knee pocket with Velcro fastening • segmented reflective stripes.

BIB AND BRACE TROUSERS 4kA

Arc flash class 1

Part number: **01288 50106 002 4027**

Part number: **01288 50106 000 4028**

Garment weight: approx. 920 g

BIB AND BRACE TROUSERS 7kA/4kA

Arc flash class 2

Part number: **01288 50106 003 4027**

Part number: **01288 50106 001 4028**

Garment weight: approx. 1,050 g

2-coloured • stretch straps with fixlock buckles • bib with bib pocket and flap with snap fastener • high kidney protection • slit with zip • 2 wing pockets with trimming and reflective elements • 2 hip pockets with flap and snap fasteners • 1 ergonomic ruler pocket on the right, 1 leg pocket on the left - both free-hanging and with flap, the leg pocket as bellow pocket with inside mobile phone pocket • knee pocket with hook&loop fastener • segmented reflective stripes.

MATERIAL: 44 % MODACRYLIC, 30 % COTTON, 20 % POLYAMIDE, 5 % ARAMIDE, 1 % CARBON

FABRIC WEIGHT: approx. 260 g/m² (2-ply: + approx. 180 g/m²)

4kA: ATPV VALUE: 11.0 cal/cm² • 460.24 kJ/m² • **ELIM:** 10.0 cal/cm²















7kA/4kA: ATPV VALUE: 31.0 cal/cm² • 1297.04 kJ/m² • **ELIM:** 18.0 cal/cm²

HB-4Energy

HB-MultiPro FR®

Windproof, water-repellent and breathable:

MultiPro FR® is the perfect all-round protection for autumn and winter: Eight certified standards offer an exceptionally high level of protection suited for many different work areas and applications. Our all-rounder also impresses with its contemporary look and stands for modern and hard-wearing PPE.

ITEM	COLOUR	COLOUR-NO.	COLOUR NAME									REGULAR SIZES							
1		2425	fluoresc. yellow/ stone grey	EN ISO 20471 Class 3	EN 343 Class 3/4	IEC 61482-2 APC 2	EN ISO 11612 A1/B1/C1/ E1/F1	EN ISO 11611 Class 2 A1	EN 1149-5	EN 13034 Type PB [6]	-	S-2XL							
		2143	fluoresc. yellow/ dark blue																
		2408	fluoresc. orange/ stone grey																
		2147	fluoresc. orange/ dark blue																
2		17	fluoresc. yellow	Certification only in combination with parka								One size							
		18	fluoresc. orange																
FIELDS OF APPLICATION: Petrochemistry, catenary construction, energy suppliers																			

FIELDS OF APPLICATION: Petrochemistry, catenary construction, energy suppliers



Side pockets with zipper

PARKA 7kA

Arc flash class 2

Part number: **01121 19018 000 + COLOUR NO.**

Garment weight: approx. 1,780 g

2-coloured • flame retardant outer fabric with liner, welded seams • stand-up collar with concealed push buttons, chin guard and zipper for hood • covered 2-way zip plus drip moulding • 2 chest pockets with flap and covered snap fastener • 2 side pockets with zipper • 1 inside pocket on the left with Velcro closure • extended back • waist and hem width adjustable via cord • inside zipper to hook the fleece jacket • sleeves bottom width adjustable with hook & loop closure • flame retardant, segmented FR reflective stripes • standard pictograms as FR embroidery at the front.

Stand-up collar with concealed push buttons, chin guard and zipper for hood





Additionally available hood

Elongated back

Segmented reflective stripes,
flame retardant

HOOD

Arc flash class 2

Part number: **01121 79006 004 + COLOUR NO.**

Garment weight: approx. 195 g

Single-coloured • flame-retardant upper material with liner • sealed seams • separate hood, attachable via zipper • field of vision adjustable via cord • hood height adjustable via hook&loop fastener at the back of the head • certification only in combination with parka.



MATERIAL: 31 % POLYESTER, 28 % MODACRYLIC, 20 % ARAMIDE, 20 % VISCOSE, 1 % CARBON // With liner















FABRIC WEIGHT: approx. 320 g/m²

ATPV VALUE: 8.8 cal/cm² • 368.19 kJ/m² • **ELIM:** 8.0 cal/cm²

HABETEX®

HB-MultiPro FR®

Just like the parka, the dungarees have many convenient features such as a chin guard, moisture barrier and numerous well-designed pockets. For even more effective protection against the cold, a matching fleece jacket can be added or, if required, worn on its own in the 4kA or 7kA version.

ITEM	COLOUR	COLOUR-NO.	COLOUR NAME									REGULAR SIZES
3		48	dark blue	-	-	IEC 61482-2 1-ply: APC 1	EN ISO 11612 A1/B1/ C2/F1	-	-	-	EN 14058 Class 1	S-2XL
		528	dark grey	-	-	2-ply: APC 2	EN ISO 11612 A1/B2/ C2/F1	-	-	-	-	
4		2425	fluoresc. yellow/ stone grey	EN ISO 20471 Class 1	EN 343 Class 3/4	IEC 61482-2 APC 2	EN ISO 11612 A1/B1/C1/ E1/F1	EN ISO 11611 Class 2 A1	EN 1149-5	EN 13034 Type PB [6]	-	
		2143	fluoresc. yellow/ dark blue									
		2408	fluoresc. orange/ stone grey									
		2147	fluoresc. orange/ dark blue									
FIELDS OF APPLICATION: Petrochemistry, catenary construction, energy suppliers												



Stand-up collar with fastening loop for hooking into parka HB-MultiPro FR® – for additional cold protection



FLEECE JACKET 4kA

Arc flash class 1
07015 19019 000 + COLOUR NO.
Garment weight: approx. 970 g

FLEECE JACKET 7kA

Arc flash class 2
07015 19019 001 + COLOUR NO.
Garment weight: approx. 1,290 g

Single-coloured • stand-up collar with fastening loop for hooking into the outer jacket, to wear high necked or open • covered front zipper • 2 side pockets with covered zipper • hem adjustable with drawstring • sleeves bottom with knitted cuffs and 2 fastening loops each for hooking into the outer jacket • standards pictograms as direct embroidery on the front above the waistband.



3 | Effective protection against the cold: combine the fleece jacket with our HB-MODarc&vis® parka page 52 and HB-MultiPro FR® page 56.



4 |

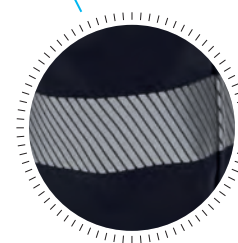


Bib pocket with inside pen pocket with flap and covered snap fasteners



Comfortable knitted wedges at the waistband

Hook&loop fastening at the leg hem for easy entry



Segmented reflective stripes, flame retardant

BIB AND BRACE TROUSERS 7ka

Arc flash class 2

Part number: **01121 59006 000 + COLOUR NO.**

Garment weight: approx. 1,430 g

Two-coloured • flame retardant outer fabric with liner, welded seams • adjustable length straps • diamond shaped kidney protection • 1 bib pocket with inside pen pocket with flap and covered snap fasteners • 2 wing pockets • inside back pockets with flap and concealed push buttons • 1 free-hanging folding rule pocket on the right and 1 bellows pocket on the left with inside cell phone pocket – each with flap and covered snap fasteners • entry on both sides with knitted wedge • slit with zipper • hook&loop fastener at the bottom of the trouser leg for easier entry • leg cuff with wetness barrier • flame retardant, segmented FR reflective stripes.

1 | MATERIAL: 48% MODACRYLIC, 32% COTTON, 18% POLYESTER, 2% CARBON • **FABRIC WT.:** approx. 360g/m² •

2 |, 3 |, 4 | MATERIAL: 31% POLYESTER, 28% MODACRYLIC, 20% ARAMIDE, 20% VISCOSE, 1% CARBON // With liner •

FABRIC WEIGHT: approx. 320 g/m² •

ATPV VALUE: 8.8 cal/cm² • 368.19 kJ/m² • **ELIM:** 8.0 cal/cm²

HABETEX®

NOMEX® Viskose

NOMEX® Viskose combines pleasant wearing comfort with reliable protection. Despite its light weight, the fabric offers high durability and good moisture absorption. Suitable for those who frequently change their posture when working. Finished with generous pockets. The outside knee pockets are made of particularly abrasion-resistant aramid.

ITEM	COLOUR	COLOUR NO.	COLOUR NAME					REGULAR SIZES
1 2 3		2030	royal/navy	IEC 61482-2 APC 1	EN ISO 11612 AT/B1/C1/F1	EN ISO 11611 Class 1 AT	EN 1149-5	46-58 & 94-110
FIELDS OF APPLICATION: Energy suppliers, public services, plant engineering and construction, electricians								



**21^{TO}**
WEAR**ARC &
ENERGY****TROUSERS 4kA**

Arc flash class 1

Part number: **01031 20022 013 2030**

Garment weight: approx. 700g

Two-coloured • waistband with covered button and lateral elastic bands • zip fly • 2 slant pockets • 1 hip pocket and 1 ruler pocket on the right – each with flap • 1 bellow pocket on left leg with flap and hook&loop fastener • knee pockets with hook&loop fastener • FR reflective stripes at legs, suitable for industrial laundry • reflective piping on flaps • no high-visibility protective clothing acc. to EN ISO 20471 and EN 17353.

BIB AND BRACE TROUSERS 4kA

Arc flash class 1

Part number: **01031 50026 014 2030**





Garment weight: approx. 840g

Two-coloured • stretch braces with fixlock buckle • high-cut kidney protection • bib with outer pocket, ball-pen compartment and flap • zip fly • 2 slant pockets • 1 hip pocket and 1 ruler pocket on the right, 1 bellow pocket on left leg – each with flap and covered hook&loop fastener • side access on the left, adjustable via buttons • knee pockets with hook&loop fastener • FR reflective stripes at legs, and reflective piping on bib and flaps, suitable for industrial laundry • no high-visibility protective clothing acc. to EN ISO 20471 and EN 17353.

MATERIAL: 50 % VISCOSE, 49 % ARAMIDE, 1 % CARBON • **FABRIC WEIGHT:** approx. 260 g/m²**ATPV VALUE:** 9.9 cal/cm² • 414.4 kJ/m² • **HAF VALUE:** 79.0 %**DuPont™
NOMEX®**

NOMEX® Comfort

The NOMEX® Comfort fabric is fibre-inherently flame retardant and thus offers exceptionally high flame protection. With proper care, the protective function is maintained even after many washes. Due to the low material weight, NOMEX® Comfort offers protection and freedom of movement even in very uncomfortable workplaces with a particularly high risk potential.

ITEM	COLOUR	COLOUR NO.	COLOUR NAME				REGULAR SIZES
1		41	royal	IEC 61482-2 APC 1	EN ISO 11612 A1/B1/C1/F1	EN 1149-5	46-58 & 94-110
2 ,3							

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



Front pocket with flap and covered snap fastener

Inner front pocket with flap and snap fasteners

BLOUSON 4kA

Arc flash class 1

Part number: **01042 10011 001 41**

Garment weight: approx. 545 g

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

**JACKET 4kA**

Arc flash class 1

Part number: **01042 10003 001 41**

Garment weight: approx. 580 g

Single-coloured • turn-down collar • closure band with snap fasteners covered on both sides • 1 front pocket on the left with flap and 2 piped pockets with covered pocket mouths, all with covered snap fasteners • 1 inner front pocket on the right with flap and snap fasteners • sleeve hem width adjustable via snap fasteners, covered inwards • standard pictograms as flame retardant embroidery • FR leasing label.

**COAT 4kA**

Arc flash class 1

Part number: **01042 40002 002 41**

Garment weight: approx. 720 g





Single-coloured • lapel collar • 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 fastener • 1 inner front pocket on the right • sleeve hem width adjustable via covered snap fasteners • FR leasing label.

MATERIAL: 98 % ARAMIDE, 2 % CARBON • **FABRIC WEIGHT:** approx. 260 g/m² •
ATPV VALUE: 9.0 cal/cm² • 376.8 kJ/m² • **HAF VALUE:** 71.6 %

DuPont™
NOMEX®

NOMEX® Comfort

The NOMEX® Comfort fabric is fibre-inherently flame retardant and thus offers exceptionally high flame protection. With proper care, the protective function is maintained even after many washes. Due to the low material weight, NOMEX® Comfort offers protection and freedom of movement even in very uncomfortable workplaces with a particularly high risk potential.

ITEM	COLOUR	COLOUR NO.	COLOUR NAME				REGULAR SIZES
1 , 2		41	royal	IEC 61482-2 APC 1	EN ISO 11612 A1/B1/C1/F1	EN 1149-5	46-58 & 94-110
3							

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



TROUSERS 4kA

Arc flash class 1
Part number: **01042 20003 006 41**
Garment weight: approx. 510 g

Single-coloured • added waistband with 7 belt loops • 2 side seam pockets • 1 hip pocket on the right with flap and snap fasteners • button fly • 1 ruler pocket on the right.

BIB AND BRACE TROUSERS 4kA

Arc flash class 1
Part number: **01042 50002 012 41**
Garment weight: approx. 655 g

Single-coloured • stretch braces with clamp-on clips • straightcut kidney protection • 1 outer bib pocket with covered snap fastener • side access on the left with buttoning • button fly • 2 side seam pockets with covered snap fastener • 1 hip pocket on the right with flap and covered snap fastener • 1 ruler pocket on the right.

**COVERALL 4KA**

Arc flash class 1

Part number: **01042 30017 001 41**

Garment weight: approx. 990 g

Single-coloured • turn-down collar, closure band with snap fasteners covered on both sides • 1 front pocket on the left, 1 side pocket on the left and 1 pocket pass-through on the left – each with covered snap fastener • 1 ruler pocket on the right • elastic waistband all round • sleeve hem width adjustable via snap fastener, covered inwards.







MATERIAL: 98 % ARAMIDE, 2 % CARBON • **FABRIC WEIGHT:** approx. 260 g/m² •

ATPV VALUE: 9.0 cal/cm² • 376.8 kJ/m² • **HAF VALUE:** 71.6 %

DuPont™
NOMEX®

INOTEC® Arc & Energy

Extraordinary protection and comfort, combined with low weight: INOTEC® Arc & Energy offers fibre-inherent flame protection, excellent arc flash protection, antistatic properties plus retro-reflective stripes. The lightweight material and the clever cut provide wearers with an easy freedom of movement. Available as 1-ply or 2-ply version.

ITEM	COLOUR	COLOUR NO.	COLOUR NAME						REGULAR SIZES
1 ,2 ,3		2027	royal/navy	IEC 61482-2 1-ply: APC 1 2-ply: APC 2* *Front part and sleeves/ front trousers	EN ISO 11612 A1/B1/C1/F1	EN 1149-5	EN 13034 Type 6	ISO 15797	46-58 & 94-110

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

Design and cut relaunched:
Now even more comfortable
thanks to optimised fit.



Sleeve cuffs adjustable
with snap fasteners



JACKET 4kA

Arc flash class 1
Part number 4kA: **01043 10000 009 2027**
Garment weight: approx. 780g

JACKET 7kA/4kA

Arc flash class 2
Part number 7kA/4kA: **01043 10000 010 2027**
Garment weight: approx. 940g

Two-coloured • stand-up collar • fastening strip with covered zip • 2 breast and 2 side pockets with flap and snap fasteners • mobile phone pocket with zip on the front • FR reflective piping on front, back and sleeves, suited for industrial laundry • back with FR reflective stripes, suited for industrial laundry - sleeve cuffs adjustable with snap fasteners • standard pictograms on the front as FR direct embroidery • no high-visibility clothing according to EN ISO 20471 and EN 17353.

Mobile phone
pocket on the
front

Front part and sleeve available as 1-ply or 2-ply version **Electric Arc Flash protection 4kA or 7kA/4kA**



Matching bib and brace trousers:

Zip-in membrane as liner trousers for additional moisture protection made of 190 g/m² light-weight material double-layer laminate FR
Part number: **05065 29004 000 519**

2 |



2 and 3 | Front trousers available as 1-ply or 2-ply version
Electric Arc Flash protection 4kA or 7kA/4kA

2 and 3 | Flame-retardant reflective stripes, suitable for industrial laundry

3 |



TROUSERS 4kA

Arc flash class 1

Part number 4kA: **01043 20000 004 2027**

Garment weight: approx. 650g

TROUSERS 7kA/4kA

Arc flash class 2

Part number 7kA/4kA: **01043 20000 005 2027**

Garment weight: approx. 765g

Two-coloured • attached waistband • 2 slant pockets • fly with covered zip • 2 back pockets with flap and snap fasteners • 1 folding rule pocket on the right • 1 leg pocket on the left with bellows pleat at the back, flap and snap fastener • reflective piping on saddle seam of back trousers • 2 reflective stripes at the bottom of the legs • no high-visibility clothing according to EN ISO 20471 and EN 17353.

BIB AND BRACE TROUSERS 4kA

Arc flash class 1

Part number 4kA: **01043 50100 004 2027**

Garment weight: approx. 800g

BIB AND BRACE TROUSERS 7kA/4kA

Arc flash class 2

Part number 7kA/4kA: **01043 50103 000 2027**

Garment weight: approx. 920g

Two-coloured • stretch straps with fixlock buckles • high-cut kidney protection • outside bib pocket with flap, reflective piping and covered snap fasteners • 1 side entry on the left, adjustable with buttons • fly with zip • 2 wing pockets • 2 seat pockets and 1 bellows leg pocket on the left, each with flap and snap fasteners • 1 reinforced folding rule pocket on the right with flap and snap fasteners • no high-visibility clothing according to EN ISO 20471 and EN 17353.

MATERIAL: 98 % ARAMIDE, 2 % CARBON // FC-Equipment: fluorocarbon finish

FABRIC WEIGHT: approx. 260g/m² • **7kA/4kA: FABRIC WEIGHT:** approx. 260g/m² + approx. 180g/m²

4kA: ATPV VALUE: 9.0 cal/cm² • 376.8 kJ/m² • **HAF VALUE:** 71.6 %

INOTEC®
DuPont™
NOMEX®



Model: Kai, project management
Collection: HB-ComFlex®

A full-page background image showing a field of tall green grass and white dandelion seed heads in the foreground. In the middle ground, two large, dark, cylindrical metal drums or tanks stand side-by-side. The background features a line of trees and a distant horizon under a sky with soft, orange and yellow clouds from a setting or rising sun. The overall mood is serene yet industrial.

HEAT, SPLASHES & WELDING

WHEN THINGS GET HEATED YOU STAY COOL

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



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.

2 |



Attached ruler pocket
with flap

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.

3 |



Stretch braces with
clamp-on clips

Side accesses
with buttoning

MATERIAL: 100 % COTTON



















FABRIC WEIGHT: approx. 470 g/m²

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					REGULAR SIZES
1		2027	royal/navy	350 g/m ²					46-58 & 94-110
		2041	navy/royal	350 g/m ²					
		2043	navy/medium grey	450 g/m ²					
		2382	anthracite/medium grey	450 g/m ²					
2		45	navy	350 g/m ²					46-58 & 94-110
		58	anthracite	450 g/m ²					

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



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 ruler 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

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					REGULAR SIZES
1		2027	royal/navy	350 g/m²					46-58 & 94-110
		2041	navy/royal						
		2043	navy/medium grey						
		2382	anthracite/medium grey	450 g/m²					
2 , 3		45	navy	350 g/m²					
		58	anthracite	450 g/m²					

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

3 |



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.

HEAT,
SPASHES &
WELDING



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

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						REGULAR SIZES
1		2205	dark navy/medium grey						
2 , 3	 	458 52	dark navy medium grey	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

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



Pockets have been elaborately designed so that welding spatters can easily roll off

Band collar with covered snap fastener

Highly stressed areas are manufactured with double layers



1|



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



2 |

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



3 |

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.

21 TO WEAR

Also models for
ladies available –
delivered in just
21 days.
See page 236.

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-4welders®



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 , 2		397	dark denim	EN ISO 11612 A1+A2/B1/C1/E2	EN ISO 11611 Class 2 A1+A2	ISO 15797	46-58 & 94-110
		2404	dark denim/dark navy				

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



Collar, front and lower arms made of high-tech fabric

Stretched denim for extraordinary freedom of movement



JACKET

Welding protection class 2

Part number: **01281 10000 003 397**
(Denim)

Garment weight: approx. 960g

Part number: **01281 10000 004 2404**
(Denim + high-tech fabric)

Garment weight: approx. 1,040g

With additional zip at the front and abrasion areas made of high-tech fabric.

Single-coloured/two-coloured • stand-up collar with 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 zip • sleeve hem width adjustable with snap fastener • FR leasing label • standard pictograms as FR direct embroidery on the front • roof tile manufacture.



The high-tech fabric protects particularly vulnerable areas from sharp metal edges and constant flying sparks during continuous welding and flexing work



TROUSERS

Welding protection class 2

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

Garment weight: approx. 930 g

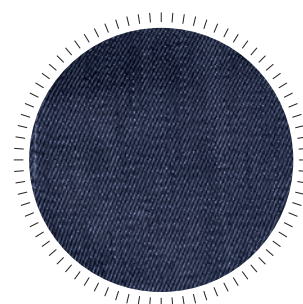
Part number: **01281 20000 006 2404**

(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 % LYOCCELL, 9 % POLYAMIDE, 1 % CARBON •

FABRIC WEIGHT: approx. 430 g/m²

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
3		397	dark denim	EN ISO 11612 A1+A2/B1/C1/E2	EN ISO 11611 Class 2 A1+A2	ISO 15797	46-58 & 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.





4 |



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. 1,020g

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 % LYOCCELL, 9 % POLYAMIDE, 1 % CARBON •

FABRIC WEIGHT: approx. 430 g/m²

SECAN® Securo 420

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					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 exposed 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.

HEAT,
SPASHES &
WELDING



2 |



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

TROUSERS

Liquid metal Fe

Part number: **01248 20003 026 52**

Garment weight: approx. 810g

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.

3 |



BIB AND BRACE TROUSERS

Liquid metal Fe

Part number: **01248 50002 049 52**

Garment weight: approx. 950g

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							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			46-58 & 94-110
4		22	pure orange	EN ISO 11612 A1+A2/B1/C1/ E1/F1	EN ISO 11611 Klasse 1 A1+A2	EN 1149-5	-	EN 17353 Type B2	ISO 15797	39/40-47/48
		52	middle grey							

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



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.



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.



21 TO WEAR

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

3 |



Flame-retardant stretch braces

High-cut kidney protection

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.

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



4 |



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				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 OF APPLICATION: Aluminium working industry, foundries, metalworks, heat exposed workplaces							



JACKET

Liquid metal Al + Fe
Part number: **01180 10214 000 45**
Garment weight: approx. 838g

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,
SPASHES &
WELDING



3 |



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.

4 |



SHIRT

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/m²

HABETEX

HB-HeavyMetal Pro®

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							REGULAR SIZES
1 , 2		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					46–58 & 94–110
		2138	anthracite grey/ petrol	approx. 430 g/m²	EN ISO 11612 A1+A2/ B1/C1/D3/ E3/F1	EN ISO 11611 Class 2 A1+A2	EN 1149-5	IEC 61482-2 APC 1	EN 17353 Type B2	ISO 15797	
		2204	navy/ anthracite grey								
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 details



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. 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 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**)

HABETEX®

HB-HeavyMetal Pro®

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							REGULAR SIZES
1 2 3		2080	anthracite grey/ pure orange	approx. 340g/m²	EN ISO 11612 A1+A2/ B1/C1/D2/ E2/F1	EN ISO 11611 Class 1 A1+A2					46-58 & 94-110
		2138	anthracite grey/ petrol	approx. 430g/m²	EN ISO 11612 A1+A2/ B1/C1/D3/ E3/F1	EN ISO 11611 Class 2 A1+A2	EN 1149-5	IEC 61482-2 APC 1	EN 17353 Type B2	ISO 15797	
		2204	navy/ anthracite grey								
4		45	navy	approx. 250g/m²	EN ISO 11612 A1+A2/ B1/C1/D1/ E2/F1	EN ISO 11611 Class 1 A1+A2		-	-		39/40-47/48
		58	anthracite grey								
FIELDS OF APPLICATION: Aluminium working industrie, foundries, steelworks, heat-exposed workplaces											



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

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



BIB AND BRACE TROUSERS 340

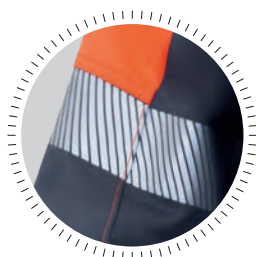
Liquid metal Al + Fe
Part number: **01221 50100 009 + COLOUR NO.** (340g/m²)
Garment weight: approx. 900g

BIB AND BRACE TROUSERS 430

Liquid metal Al + Fe
Part number: **01218 50100 009 + COLOUR NO.** (430g/m²)
Garment weight: approx. 1,170g

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.

HEAT,
SPLASHES &
WELDING



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 |
Knee pockets
with adjustable
hook&loop
fastening



SHIRT

Liquid metal Al + Fe
Part number: **01109 60026 003 + COLOUR NO.**
Garment weight: approx. 490g

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)

HABETEX®

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				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				EN ISO 11612 A1+A2/B1/C1/D1/ E1/F1	-		39/40-47/48

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



High band collar
with covered hook &
loop fastener

1|

2|

Large inner
pocket

Manufactured
in roof tile design

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.

HEAT,
SPLASHES &
WELDING



3 |



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



Stand-up collar
with flap and covered
hook&loop fastener

4 |



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

VINEX **WESTEX**
A MILLIKEN BRAND

ACCESSORIES HEAT

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.



Back centre with flap for cooling the neck area

HEAT,
SPASHES &
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

3 |



Lightweight and sturdy

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.

4 |



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

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.



PROTECTIVE
HOOD
KF-3/Z

JACKET AND TROUSERS:
COLLECTION TEMPEX®-TREME
HEAT COMFORT WITH CK-12/Z
MATERIAL AND C3 RADIANT
PROTECTION.

FOR COMFORTABLE WORKING
EVEN WITH EXTREME HEAT.

5-FINGER-
GLOVES
AW-1/Y

FOUNDRY BOOTS



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/m ²	approx. 420 g/m ²	approx. 475 g/m ²	approx. 690 g/m ²
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	<ul style="list-style-type: none"> • High protection against radiant heat • Very good protection from liquid metal splatters • Very lightweight and soft design for high wearing comfort • Good mechanical strength 	<ul style="list-style-type: none"> • Highest protection against radiant heat (C4) • Very high thermal insulation and heat barrier • Very good protection from liquid metal splatters • Lightweight and very soft design for high wearing comfort 	<ul style="list-style-type: none"> • High protection against radiant heat • Very good protection from liquid metal splatters • Very high mechanical strength 	<ul style="list-style-type: none"> • High protection against radiant heat • High protection against contact heat • Very good protection from liquid metal splatters • Very high mechanical strength
Detailed photo				

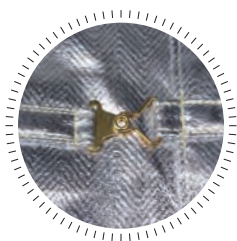
FIELDS OF APPLICATION:

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.



1 and 3 |
Lined stand-up collar
with flame-retardant
cotton lining

3 |



4 |

All seams with FR thread

21^{TO}
WEAR

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. 1,025g

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. 1,131g

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		SIZES
5 6	12003	KF-3/Z		15	silver	EN ISO 11612 A1/B1/C3/D3/E3/F1	One size



BIB APRON

Metalized heatprotection (C3)

Part number: **12003 71131 000 15 (KF-3/Z)**

Garment weight: approx. 642g

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. 511g

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

TEMPEX®-TREME HEAT COMFORT

21 TO WEAR

**HEAT,
SPASHES &
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



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.

21 TO WEAR

More lengths as well as variants in material AW-1/Y available within just 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.

21 TO WEAR

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



JACKET

Metalized heatprotection (C3)

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

Garment weight: approx. 800g

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. 890g

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 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 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.

21 TO WEAR

More lengths and variants, as well in CK-12/Z material, available within just 21 days.

See page 238.



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 • 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.

ITEM	MAT. NO.	MATERIAL	COLOUR	COLOUR NO.	COLOUR NAME		REGULAR SIZES
1 2 4 6	12003	KF-3/Z		15	silver	EN ISO 11612 A1/B1/C3/D3/E3/F1	One size
3 5	12008	AW-1/Y				EN ISO 11612 A1/B1/C4/D3/E3/F2	

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.





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).

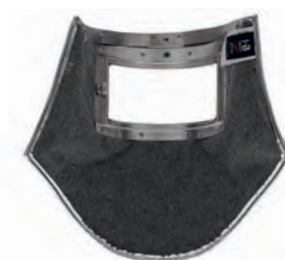
**21TO
WEAR**

More variants
available within
just 21 days.
See page 239.

4 |



5 |



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.

6 |



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:



EN 397



Fits with all head protection hoods


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

Standards:



EN 397

EN 50365



Rain gutter

Adjustable head circumference with practical twist lock

HEAT,
SPASHES &
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 x 60 mm.

■ silver

Standards:



EN 166



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



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 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



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.

 gold
Standards:



EN 166 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 166 EN 171



HEAT,
SPLASHES &
WELDING



ALL-AROUND VISOR CLEAR

Accessories

Part number: **90004 7Z010 002 00**

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

 neutral
Standards:



EN 166

ALL-AROUND VISOR CLEAR, GOLD

Accessories

Part number: **90004 7Z010 000 68**

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

 green
Standards:



EN 166


EN 171

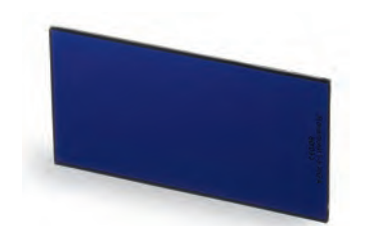
FURNACE VIEWING GLASS WITH COLOURED FILTER

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 x 60 mm.

 dark blue

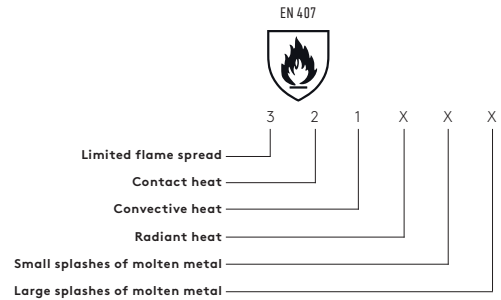


TEMPEX®-TREME HEAT

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.



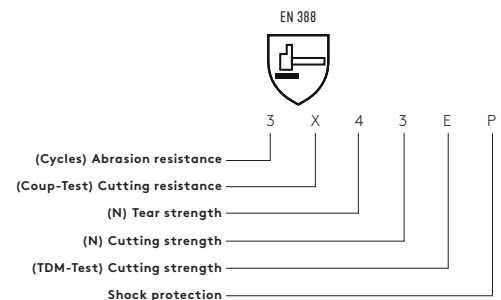
Test	Performance Level			
	1	2	3	4
Combustion behavior				
Afterflame time (in sec.)	< 20	< 10	< 3	< 2
Afterglow time (in sec.)	n.r.	< 120	< 25	< 5
Contact heat				
Contact temperature T _c (in °C)	100	250	350	500
Threshold t ₁ (in sec.)	> 15	> 15	> 15	> 15
Convective Heat				
Heat Transfer Index HTI (in sec.)	> 4	> 7	> 10	> 18
Radiant heat				
Radiant heat transfer t ₂₄ (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

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

1|



Contact heat
**up to
250 °C**
Palm of one's hands

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

2|



Contact heat
**up to
500 °C**
Palm of one's hands

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

3|



Contact heat
**up to
500 °C**
Palm of one's hands

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

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.

METALLISED HEAT PROTECTION GLOVES UP TO 250 °C CONTACT HEAT

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

1 | and 2 |



Contact heat
up to
100 °C
Palm of one's hands

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.

 silver/brown

3 | and 4 |



Contact heat
up to
250 °C
Palm of one's hands

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.

 silver/yellow



HEAT PROTECTION GLOVES UP TO 500 °C CONTACT HEAT

ITEM			MATERIAL LAYER CONSTRUCTION			LENGTH	SIZES
			UPPER	ISOLATION	LINING		
1	EN 407 4 2 3 2 XX	EN 388 2 X 4 XX	Para-Aramide	1-ply	Cotton FR	approx. 375 mm	11
2			Para-Aramide			approx. 395 mm	12
3	EN 407 4 3 3 2 XX	EN 388 2 X 4 XX	Para-Aramide	2-ply	Cotton FR	approx. 460 mm	11
4	EN 407 4 2 3 2 XX	EN 388 1 X 4 XX	Glass/Aramide/PBI, Para-Aramide			approx. 480 mm	12
						approx. 390 mm	11

1 | and 2 |



Contact heat
**up to
350 °C**
Palm of one's hands

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

3 |



Contact heat
**up to
350 °C**
All around

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

4 |



Contact heat
**up to
500 °C**
Hand and thumb

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

TEMPEX®-TREME HEAT

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							One size
3		15	silver	preox/Aramide	EN ISO 11612 A1/B1/C3/D3/E3/F1 (Partial body protection)	-	1 (= up to size 43) 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

4 |

Double snap
fasteners closure



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.

CHEMICALS

WHEN HAS RELIABLE PROTECTION EVER GIVEN YOU SO MUCH FREEDOM?

There are many dangers in the workplace: if chemicals are involved, for example, they are sometimes barely perceptible. Reliable PPE prevents from accidentally penetrating the skin when coming into contact with hazardous substances. At the same time, it should be light and comfortable to wear over a long working day. That's why we only use materials that fulfil the relevant safety standards as well as our high standards of comfort. A feeling of freedom included.







Model: Kai, project management
Collection: HB-CHEMprotect

HB-CHEMstandard

Comfortable in dangerous environments: HB-CHEMstandard combines reliable chemical protection in accordance with EN 13034: type 6 and extraordinary wearing properties that even have the benefit of being slightly warming due to the characteristics of the material.

ITEM	COLOUR	COLOUR NO.	COLOUR NAME		REGULAR SIZES
1, 2, 4, 5 3		56	iron grey	 EN 13034 Type 6	46–58 & 94–110 39/40–47/48
FIELDS OF APPLICATION: Chemical and petrochemical industry, steel industry, automotive industry, battery factories, laboratories and electroplating					

JACKET

Chemical protection type 6
Part number: **02001 10136 001 56**
Garment weight: approx. 535 g

Single-coloured • turn-down collar • closure band with covered snap fasteners on both sides • 1 front pocket on the left and 2 side pockets with flaps and covered snap fasteners • 1 inner front pocket on the right • sleeve hem width adjustable via inner covered snap fasteners.



Side pockets with flaps and covered snap fasteners



COAT

Chemical protection type 6
Part number: **02001 40032 001 56**
Garment weight: approx. 690 g

Single-coloured • lapel collar, also worn tightly closed • closure band with covered snap fasteners on both sides • 1 front pocket on the left and 2 side pockets – each with flaps and covered snap fasteners • 1 inner front pocket on the right • sleeve hem width adjustable via inner covered snap fasteners.





SHIRT

Chemical protection type 6

Part number: **02001 60000 004 56**

Garment weight: approx. 490 g

Single-coloured • turn-down collar • closure band with buttons • 1 front pocket on the left with flap and buttoning • wristband with buttoning.



TROUSERS

Chemical protection type 6

Part number: **02001 20085 001 56**

Garment weight: approx. 535 g

Single-coloured • added waistband with 7 belt loops • 2 slant pockets, 1 hip pocket on the right with flap and covered hook&loop fastener • 1 ruler pocket on the right with flap • covered button fly.



BIB AND BRACE TROUSERS

Chemical protection type 6

Part number: **02001 50063 001 56**

Garment weight: approx. 665 g

Single-coloured • stretch braces with clamp-on clips • 1 outer bib pocket and 1 hip pocket on the right – each with ap and covered hook&loop fastener • 2 side seam pockets • 1 ruler pocket on the right with flap • covered button fly • 2 side accesses adjustable via buttons.



MATERIAL: 100 % POLYACRYLIC, FC-EQUIPMENT • **FABRIC WEIGHT:** approx. 270 g/m² •

REPELLENCY AND PENETRATION INDEXES: Repellency index A (%): Sulphuric acid 30%: 99.8, Sodium hydroxide solution 10%: 99.5, o-Xylene: 96.2, Butan-1-ol: 96.3, hydrochloric acid 36%: 99.0, Nitric acid 65%: 97.7;






Penetration index P (%): Sulphuric acid 30%: 0.0, Sodium hydroxide solution 10%: 0.0, o-Xylene: 0.6,

Butan-1-ol: 0.5, hydrochloric acid 36%: 0.4, Nitric acid 65%: 0.0

HB-CHEM

HB-CHEMprotect

With this new collection, we are offering chemical protection made from recycled material for the first time. The pleasantly lightweight fabric also offers permanent antistatic properties, making it the ideal solution for many specialised manufacturing processes. HB-CHEMprotect also impresses with its modern look and comfortable, easy-to-wear cut.

ITEM	COLOUR	COLOUR NO.	COLOUR NAME			REGULAR SIZES
1 3 4		2030	royal/dark blue	EN 13034 Type 6	EN 1149-5	46-58 & 94-110
		2082	anthracite/dark blue			
2		41	royal			39/40-47/48
		58	anthracite			
FIELDS OF APPLICATION: Chemical industry, steel industry, automotive industry, battery factories, laboratories, electroplating						



JACKET

Chemical protection type 6

Part number: **02018 10000 014 + COLOUR NO.**

Garment weight: approx. 510 g

Two-coloured • turn-down collar • covered front closure with snap fasteners • 2 attached breast pockets and 2 side pockets with flaps and covered snap fasteners • sleeve width adjustable via snap fasteners • leasing neck label • embroidered FR standard pictograms on the front.

SHIRT

Chemical protection type 6

Part number: **02018 60026 004 + COLOUR NO.**

Garment weight: approx. 470 g

Single-coloured • Comfort Fit • turn-down collar with snap fastener • front with covered snap fastener on both sides • chest pocket with flap and sleeve cuff with gusset – each with covered snap fastener • preformed sleeves • FR Leasing label • standard pictograms as FR embroidery on right sleeve cuff.


21^{TO}
WEAR

Trousers also
available with
knee pockets –
in just 21 days.
See page 237.



3 and 4 |
Mobile phone pocket on
the right with flap and
hook&loop

Elasticated sideband



TROUSERS

Chemical protection type 6

Part number: **02018 20000 011 + COLOUR NO.**

Garment weight: approx. 500g

Two-coloured • added waistband (half elastic) with button • covered zip fly • 2 slant pockets • 1 back pocket with flap and snap fastener • 1 mobile phone pocket on the right – with flap and hook&loop.



BIB AND BRACE TROUSERS

Chemical protection type 6

Part number: **02018 50100 012 + COLOUR NO.**

Garment weight: approx. 595g

Two-coloured • stretch straps with fixlock buckles • straight kidney protection • slit with covered zip • 1 side entry on the left with button • 2 side seam pockets • 1 outer bib pocket • 1 back pocket with flap and snap fastener • 1 mobile phone pocket on the right with flap and hook&loop fastening.







MATERIAL: 99 % POLYESTER, 1 % CARBON, FC-EQUIPMENT

FABRIC WEIGHT: approx. 240g/m²

REPELLENCY AND PENETRATION INDEXES: Repellency index A (%): Sulphuric acid 30 %: 99.8, Sodium hydroxide solution 10 %: 99.6, o-Xylene: 87.8, Butan-1-ol: 95.3; Penetration index P (%): Sulphuric acid 30 %: 0.0, Sodium hydroxide solution 10 %: 0.0, o-Xylene: 7.6, Butan-1-ol: 1.1

HB-CHEM

The new and equally lightweight HB-CHEMprotect coats for men and women also offer reliable chemical protection plus antistatic properties. They are suitable for use in many different branches of industry and, like jackets and trousers, are available in several colours.

ITEM	COLOUR	COLOUR NO.	COLOUR NAME			REGULAR SIZES
5		10	white			36/38–44/46
6		10	white	EN 13034 Type 6	EN 1149-5	46–58 & 94–110
		2030	royal/dark blue			
		2082	anthracite/dark blue			

FIELDS OF APPLICATION: Chemical industry, steel industry, automotive industry, battery factories, laboratories, electroplating



5 and 6
All pockets with flap and covered snap fasteners



LADIES COAT

Chemical protection type 6
Part number: **02018 40073 001 10**
Garment weight: approx. 580g

Single-coloured • turn-down collar • covered front closure with snap fasteners • 2 attached breast pockets and 2 side pockets with flaps and covered snap fasteners • sleeve width adjustable via snap fasteners • leasing neck label • embroidered FR standard pictograms on the front.

21^{TO}WEAR

Ladies coat
available in
further colours –
in just 21 days.
See page 237.

MEN'S COAT

Chemical protection type 6
Part number: **02018 40021 001 10**
Garment weight: approx. 640g

MEN'S COAT

Chemical protection type 6
Part number: **02018 40021 000 + COLOUR NO.**
Garment weight: approx. 640g

Single- or two-coloured • turn-down collar • covered front closure with snap fasteners • 2 attached breast pockets and 2 side pockets with flaps and covered snap fasteners • sleeve width adjustable via snap fasteners • leasing neck label • embroidered FR standard pictograms on the front.

MATERIAL: 99 % POLYESTER, 1 % CARBON, FC-EQUIPMENT

FABRIC WEIGHT: approx. 240 g/m²

REPELLENCY AND PENETRATION INDEXES: Repellency index A (%): Sulphuric acid 30 %: 99.8, Sodium hydroxide solution 10 %: 99.6, o-Xylene: 87.8, Butan-1-ol: 95.3; Penetration index P (%): Sulphuric acid 30 %: 0.0, Sodium hydroxide solution 10 %: 0.0, o-Xylene: 7.6, Butan-1-ol: 1.1

HB-CHEM

HB-CHEM FUNCTIONAL UNDERWEAR

CHEMICALS



Underwear is an important supplement to ensure comprehensive chemical protection. The low humidity absorption and the slight warming effect allow for optimal wearing comfort – an important component of an optimal protection system.

ITEM	COLOUR	COLOUR NO.	COLOUR NAME	SIZES
1, 2, 3		11	off-white	6-8
FIELDS OF APPLICATION: Underwear for: chemical industry, steel industry, automotive industry, battery factories, laboratories, electroplating				

UNDERSHIRT LONG-SLEEVED

Chemical protection type 6
Part number: **02008 76008 000 11**
Garment weight: approx. 200 g

Edged neckline • short-sleeved opening with stretchy double-stitched seam • hem with stretchy double-stitched seam.



Hem with stretchy double-stitched seam

UNDERSHIRT SHORT-SLEEVED

Chemical protection type 6
Part number: **02008 76009 000 11**
Garment weight: approx. 170 g

Edged neckline • short-sleeved opening with stretchy double-stitched seam • hem with stretchy double-stitched seam.



Hem with stretchy double-stitched seam

UNDERPANTS LONG

Chemical protection type 6
Part number: **02008 76010 000 11**
Garment weight: approx. 200 g

Elastic waistband • double-sided fly • leg opening with knitted cuffs.



Leg opening with knitted cuffs

MATERIAL: 100 % POLYACRYLIC

FABRIC WEIGHT: approx. 170 g/m² • **CHARACTERISTICS:** Rib knit, modern and form-fitting design

HB-CHEM

Model: Anja, head of production Germany
Collection: HI-VISION® BASIC





HIVIS & WEATHER

WELCOME TO YOUR PERSONAL COMFORT ZONE!

The best thing about our HiVis & Weather collections:

comfortable fit and modern design give you a great feeling in your outfit and make you look really good.

And not just in good weather, but especially in wet, cold, foggy, drizzly and dark conditions.

With bright colours and cleverly placed reflective stripes, our high visibility and weather protection clothing sends out strong signals that can't be missed.

HI-VISION® Basic

The shirts with segmented reflective stripes combine effective high-visibility protection with UV protection, design and wearing comfort. Polyester on the outside and cotton on the inside ensure optimal moisture transport. UV protection 50+ is the highest protection according to the European classification and better than the standard requires: the fabric lets only 2 % of UV rays through. Now also available for ladies.

ITEM	COLOUR	COLOUR NO.	COLOUR NAME			REGULAR SIZES
1 2		2161	fluorescent orange-red/hydron blue	EN ISO 20471 Class 2	EN 13758-2 tested upon UV50+	S-2XL
		2162	fluorescent yellow/hydron blue			
3 4		17	fluorescent yellow			XS-L
		18	fluorescent orange			

FIELDS OF APPLICATION: All summer work in factory and public places; suitable for public utility companies, supply and disposal contractors



POLO-SHIRT SHORT SLEEVE

High-Visibility
Part number: **04025 80009 002 + COLOUR NO.**
Garment weight: approx. 330 g

Two-coloured • round design and cut with contrast stitching in off-white • polo opening with zip fastener with encased zipper • reflective film in body language, attached as patch, stretchy (segmented) • HB logo as direct embroidery on back • standard pictograms as direct embroidery on right sleeve hem.

T-SHIRT SHORT SLEEVE

High-Visibility
Part number: **04025 80008 003 + COLOUR NO.**
Garment weight: approx. 310 g

Two-coloured • round design and cut with contrast stitching in off-white • round neck opening • reflective film in body language, attached as patch, stretchy (segmented) • HB logo as direct embroidery on back • standard pictograms as direct embroidery on right sleeve hem.



Standard pictograms as direct embroidery, proven to UV 50+



1 to 4 |
Segmented reflective stripes,
suited for industrial laundry



LADIES POLO-SHIRT SHORT SLEEVE

High-Visibility

Part number: **04025 80025 000 + COLOUR NO.**

Garment weight: approx. 300 g

Two-coloured • round design and cut with contrast stitching in off-white • polo opening with zip fastener with encased zipper • reflective film in body language, attached as patch, stretchy (segmented) • HB logo as direct embroidery on back • standard pictograms as direct embroidery on right sleeve hem.

LADIES T-SHIRT SHORT SLEEVE

High-Visibility

Part number: **04025 80025 001 + COLOUR NO.**

Garment weight: approx. 280 g

Two-coloured • round design and cut with contrast stitching in off-white • round neck opening • reflective film in body language, attached as patch, stretchy (segmented) • HB logo as direct embroidery on back • standard pictograms as direct embroidery on right sleeve hem.

MATERIAL: 55 % COTTON, 45 % POLYESTER






FABRIC WEIGHT: approx. 185 g/m²

PROPERTIES: Offers UV protection 50+ and is therefore better than the EN standard requires. It only lets pass 2 % of the UV rays. That means "very high protection" according to the European Classification.

HI-VISION®

HI-VISION® Basic

The HI-VISION® Basic Parka with removable thermal jacket is the right solution for bad weather conditions as well as for dark working environments and at dusk and dawn. In addition to hi-visibility and weather protection, it also offers protection against moisture thanks to welded seams and a high stand-up collar with integrated hood.

ITEM	COLOUR	COLOUR-NO.	COLOUR NAME				REGULAR SIZES
1		2112	fluorescent yellow/navy	EN ISO 20471 Class 2* *from size 42/44	EN 343 Class 3/3	EN 1149-5	46/48-58/60
		2165	fluorescent orange-red/navy				

FIELDS OF APPLICATION: Technical retailers, suppliers, disposers, works in the factory or public traffic area, car wash, logistic centres



PARKA INCL. THERMAL JACKET

High-Visibility & Weather Protection
Part number: **05028 19001 002 + COLOUR NO.**
Garment weight: approx. 1,445 g

Two-coloured • outer material as direct laminate • with welded seams • with removable thermal jacket • high stand-up collar with built-in hood • fastener strip with concealed 2-way zip • chest pocket on left with built-in pen compartment • chest pocket on right with built-in mobile phone compartment • 2 side pockets with flaps and press stud closures • inside pocket on left with hook&loop fastener • hem can be adjusted with drawstring • sleeve width can be adjusted with press stud • with reflective stripes.

MATERIAL: 99 % POLYESTER, 1% CARBON, Fluorcarbon Finish

FABRIC WEIGHT: approx. 150 g/m²

HI-VISION®



This flexible weather protection collection doesn't leave you out in the rain. Thanks to welded seams and reflective stripes, it offers reliable protection in wind and weather and poor visibility. Certified according to EN 343 class 3/3 – the highest protection class against precipitation and ground moisture. With removable thermal insert.

ITEM	COLOUR	COLOUR-NO.	COLOUR NAME			REGULAR SIZES
1		2041	navy/royal	EN 343 Class 3/3	EN 1149-5	46/48–58/60
2		45	navy			

FIELDS OF APPLICATION: Technical retailers, suppliers, disposers, works in the factory or public traffic area, car wash, logistic centres



PARKA INCL. QUILTED JACKET

Weather Protection
Part number: **05028 19001 001 2041**
Garment weight: approx. 1,440g

Two-coloured • outer material as direct laminate • with welded seams • with removable thermal jacket • high stand-up collar with built-in hood • fastener strip with concealed 2-way zip • chest pocket on left with built-in pen compartment • chest pocket on right with built-in mobile phone compartment • 2 side pockets with flaps and press stud closures • inside pocket on left with hook&loop fastener • hem can be adjusted with drawstring • sleeve width can be adjusted with press stud • with reflective stripes • no Hi-Vis protective clothing acc. to EN ISO 20471 and EN 17353.



BRACE TROUSERS INCL. QUILTED TROUSERS

Weather Protection
Part number: **05028 29003 000 45**
Garment weight: approx. 1,060g

Single-coloured • outer material in the form of direct laminate • with welded seams • with removable thermal trousers • adjustable stretch straps with clamping buckles • 2 leg pockets • 1 pocket for folding rule on right • slit with zip • waist can be adjusted with elastic band • knee-high side slit with zip • with reflective stripes • no Hi-Vis protective clothing acc. to EN ISO 20471 and EN 17353.

MATERIAL: 99 % POLYESTER, 1 % CARBON, Fluorcarbon Finish

MATERIAL WEIGHT: approx. 150 g/m²



COLD PROTECTION

WHEN IT'S REALLY COLD, YOUR OUTFIT SHOWS ITS STRENGTHS

Does your job sometimes feel like an endurance test in inhospitable polar regions?
Then you'll find the right outfit for you in our cold protection range. The great thing about it:
The various collections have been specially developed for extreme temperatures in cold stores
and designed so that the individual products complement each other and can be combined individually.
From head to toe, from the inside outside.





Model: Marc, trainee
Collection: TEMPEX® COLD Pro

TEMPEX® CLASSIC 2.0

COLD STORE

PPE for movement-intensive work at temperatures up to -49 °C, like order-picker work.

INTENSITY OF MOVEMENT: intensive to normal

ITEM	COLOUR	COLOUR NO.	COLOUR NAME		REGULAR SIZES
1 ,2		45	navy	EN 342 Y: 0,428 (B) m² K/W AP: Class 2	Men: 46/48-58/60 Ladies: 36/38-44/46
FIELDS OF APPLICATION: Retail and Wholesale, Research, Catering and Restaurants, Cool chain logistics, Logistics centres, Pharmaceutical industry					



Faux fur collar



Width adjustable via elastic drawstring



Men

Covered knitted cuffs



Ladies

Preformed sleeves

Reflective tape

JACKET ORDER PICKER

Cold Store (-49 °C)

Part number: **01174 1K014 000 45**

Garment weight: approx. 1,660 g

LADIES JACKET ORDER PICKER

Cold Store (-49 °C)

Part number: **01174 1K037 000 45**

Garment weight: approx. 1,330 g

Single-coloured • ErgoPlus ergonomically tailored • adjustable faux fur collar with elastic drawstring • chest pocket with zipper • 2 front pockets with zipper • 4 pen holders • chin flap • front zipper extends to edge of collar • covered front zipper with snap fasteners • covered knitted cuffs • optimized length • reflective tape • external collar loop • inside pocket for pick-by-voice computer • preformed sleeves • elastic waistband in the back.



2 |



Preformed legs

Men



Zip-through leg zippers
with inner cover



Ladies

TROUSERS ORDER PICKER

Cold Store (-49 °C)

Part number: **01174 2K012 000 45**

Garment weight: approx. 1,400 g

LADIES TROUSERS ORDER PICKER

Cold Store (-49 °C)

Part number: **01174 2K017 000 45**

Garment weight: approx. 1,200 g

Without front zip • entry via zip-flies on both sides.

Single-coloured • ErgoPlus ergonomically tailored • adjustable length suspenders • elastic waistband in the back • roomy side pockets • embroidered logo on the back • preformed legs • zip-through leg zippers covered inwards • covered front zipper with inner flap • raised waistband at the back with hanging loop.

CONSTRUCTION: UPPER MATERIAL: 100 % POLYAMIDE, PADDING: TEMPEX® HIGH-BULK, INSULATING

NON-WOVEN, INNER LINING: 100 % POLYESTER

FABRIC WEIGHT: approx. 515 g/m²





COLD STORE

TEMPEX® CLASSIC

CHILLROOM

PPE for work in moderately cold conditions at temperatures between 0 °C and 10 °C.

INTENSITY OF MOVEMENT: normal

ITEM	COLOUR	COLOUR NO.	COLOUR NAME		REGULAR SIZES
1 ,3		2040	navy/red	EN 342 Y: 0,339 (B) m² K/W AP: Class 2	Men: 46/48–58/60 Ladies: 36/38–44/46
2				-	46/48–58/60

FIELDS OF APPLICATION: Retail and Wholesale, Research, Catering and Restaurants, Cool chain logistics, Logistics centres, Pharmaceutical industry



JACKET

Chillroom (0–10 °C)

Part number: **09044 1K048 000 2040**

Garment weight: approx. 1,300 g

LADIES JACKET

Chillroom (0–10 °C)

Part number: **09044 1K049 000 2040**

Garment weight: approx. 1,205 g

Two-coloured • tight-fitting collar of faux fur with a hook&loop fastener • left-side chest pocket with zipper • 2 front pockets • covered front zipper • knitted cuffs • elastic waistband in the back • circumferential reflective stripes • no Hi-Vis protective clothing acc. to EN ISO 20471 and EN 17353 • lighter non-woven insulation.



BODY WARMER

Chillroom (0–10°C)
Part number: **09044 1K050 000 2040**
Garment weight: approx. 560 g

Two-coloured • knitted smooth collar • left-side chest pocket with pencil pocket • 2 front pockets • front zipper • reflective stripes • no Hi-Vis protective clothing acc. to EN ISO 20471 and EN 17353 • waist width regulation by elastic waistband.



TROUSERS

Chillroom (0–10°C)
Part number: **09044 2K024 000 2040**
Garment weight: approx. 1,290 g

LADIES TROUSERS

Chillroom (0–10°C)
Part number: **09044 2K001 002 2040**
Garment weight: approx. 1,150 g

Two-coloured • adjustable suspenders • raised back • front zipper • full-length leg zippers covered inwards • side pockets • reinforced hem made of the outer fabric • circumferential reflective stripes on the legs • no Hi-Vis protective clothing acc. to EN ISO 20471 and EN 17353 • lighter non-woven insulation.

CONSTRUCTION: UPPER MATERIAL: 100 % POLYAMIDE, PADDING: TEMPEX® HIGH-BULK, INSULATING NON-WOVEN, INNER LINING: 100 % POLYESTER
FABRIC WEIGHT: approx. 415 g/m²





TEMPEX® CLASSIC

COLD STORE

PPE for movement-intensive work at temperatures up to -49 °C, like order-picker work.

INTENSITY OF MOVEMENT: intensive to normal

ITEM	COLOUR	COLOUR NO.	COLOUR NAME		REGULAR SIZES
1 2				EN 342 Y: 0.448 (B) m² K/W Y: 0.344 (B) m² K/W (Acrylic fur) AP: Class 2	Men: 46/48–58/60 Ladies: 36/38–44/46
3		2040	navy/red	EN 342 Y: 0.292 (R) m² K/W AP: Class 2	46/48–58/60
4				EN 342 Y: 0.411 (B) m² K/W AP: Class 2	
FIELDS OF APPLICATION: Retail and Wholesale, Research, Catering and Restaurants, Cool chain logistics, Logistics centres, Pharmaceutical industry					

1 |



2 |



JACKET ORDER PICKER

Cold Store (-49 °C)
Part number: **09045 1K000 000 2040**
Garment weight: approx. 1,680 g

LADIES JACKET ORDER PICKER

Cold Store (-49 °C)
Part number: **09045 1K001 000 2040**
Garment weight: approx. 1,380 g

JACKET ORDER PICKER WITH ACRYLIC FUR LINING

Cold Store (-49 °C)
Part number: **09028 1K009 000 2040**
Garment weight: approx. 1,740 g
Completely with acrylic fur lining.

Two-coloured • tight-fitting collar of faux fur with a hook&loop fastener • left side chest pockets with zipper • 2 front pockets • covered front zipper • knitted cuffs • elastic waistband in the back • circumferential reflective stripes • no Hi-Vis protective clothing acc. to EN ISO 20471 and EN 17353.

TROUSERS ORDER PICKER

Cold Store (-49 °C)
Part number: **09045 2K000 000 2040**
Garment weight: approx. 1,520 g

LADIES TROUSERS ORDER PICKER

Cold Store (-49 °C)
Part number: **09045 2K001 000 2040**
Garment weight: approx. 1,355 g

TROUSERS ORDER PICKER WITH ACRYLIC FUR LINING

Cold Store (-49 °C)
Part number: **09028 2K006 000 2040**
Garment weight: approx. 1,600 g
Completely with acrylic fur lining.

Two-coloured • adjustable suspenders • raised back • front zipper • full-length leg zippers covered inwards • side pockets • reinforced hem made of the outer fabric • circumferential reflective stripes on the legs • no Hi-Vis protective clothing acc. to EN ISO 20471 and EN 17353.



3 |

Hood with faux fur lining

COAT VISITOR

Cold Store (-49°C)

Part number: **09045 4K000 000 2040**

Garment weight: approx. 1,885 g

Two-coloured • hood with faux fur lining and tight-fitting knit collar • left-side chest pocket with zipper • 2 front pockets • covered 2-way front zipper • knitted cuffs • elastic waistband in the back • circumferential reflective stripes • no Hi-Vis protective clothing acc. to EN ISO 20471 and EN 17353.



4 |

1 and 4 |
Tight-fitting collar of
faux fur with a
hook&loop fastener

1 to 4 |
Circumferential
reflective tape on
chest and/or legs

Adjustable
hip size

COVERALL ORDER PICKER

Cold Store (-49°C)

Part number: **09045 3K000 000 2040**

Garment weight: approx. 2,410 g

Two-coloured • tight-fitting collar of faux fur with a hook&loop fastener • 2 chest pockets • 2 front pockets • covered 2-way front zipper • knitted cuffs • elastic waistband in the back • adjustable hip size • leg zippers covered inwards • knee insulation made of acrylic fur lining • reinforced hem made of the outer fabric • circumferential reflective stripes on chest and legs • no Hi-Vis protective clothing acc. to EN ISO 20471 and EN 17353.

CONSTRUCTION: UPPER MATERIAL: 100 % POLYAMIDE, PADDING: TEMPEX® HIGH-BULK, INSULATING

NON-WOVEN, INNER LINING: 100 % POLYESTER

FABRIC WEIGHT: approx. 520 g/m² · approx. 560 g/m² (with acrylic fur lining)





COLD STORE

TEMPEX® CLASSIC

COLD STORE PLUS

PPE for low-movement work at temperatures up to -49 °C, like forklift driver.

INTENSITY OF MOVEMENT: intensive to normal // low

ITEM	COLOUR	COLOUR NO.	COLOUR NAME		REGULAR SIZES
1 2		2040	navy/red	 EN 342 Y: 0.404 (B) m² K/W Y: 0.398 (R) m² K/W (Plus) AP: Class 2	46/48-58/60
FIELDS OF APPLICATION: Retail and Wholesale, Research, Catering and Restaurants, Cool chain logistics, Logistics centres, Pharmaceutical industry					



JACKET FORKLIFT DRIVER

Cold Store Plus (-49 °C)

Part number: **09046 1K012 001 2040**

Garment weight: approx. 1,840 g

JACKET FORKLIFT DRIVER PLUS

Cold Store Plus (-49 °C)

Part number: **09046 1K012 000 2040**

Garment weight: approx. 2,095 g

Additional acrylic fur lining on the back.

Two-coloured • tight-fitting collar of faux fur with a hook&loop fastener • left side chest pockets with zipper • 2 front pockets • covered front zipper • knitted cuffs • elastic waistband in the back • circumferential reflective stripes • no Hi-Vis protective clothing acc. to EN ISO 20471 and EN 17353 • extra-strong non-woven insulation.



TROUSERS FORKLIFT DRIVER

Cold Store Plus (-49 °C)

Part number: **09046 2K007 001 2040**

Garment weight: approx. 1,650 g

TROUSERS FORKLIFT DRIVER PLUS

Cold Store Plus (-49 °C)

Part number: **09046 2K007 000 2040**

Garment weight: approx. 1,845 g

Knee pockets including additional knee insulation.

Two-coloured • adjustable suspenders • raised back • full-length leg zippers covered inwards • front zipper • side pockets • reinforced hem made of the outer fabric • circumferential reflective stripes on the legs • no Hi-Vis protective clothing acc. to EN ISO 20471 and EN 17353 • extra-strong non woven insulation.

CONSTRUCTION: UPPER MATERIAL: 100 % POLYAMIDE, PADDING: TEMPEX® HIGH-BULK, INSULATING

NON-WOVEN, INNER LINING: 100 % POLYESTER

FABRIC WEIGHT: approx. 630 g/m²





CHILLROOM

PPE for work in moderately cold conditions at temperatures between 0 °C and 10 °C.

INTENSITY OF MOVEMENT: normal



ITEM	COLOUR	COLOUR NO.	COLOUR NAME		REGULAR SIZES
1		2040	navy/red	EN 342 Y: 0,391 (B) m² K/W AP: Class 2	Men: 46/48-58/60 Ladies: 36/38-44/46
FIELDS OF APPLICATION: Retail and Wholesale, Research, Catering and Restaurants, Cool chain logistics, Logistics centres, Pharmaceutical industry					



JACKET

Chillroom (0-10 °C)

Part number: **01183 1K007 002 2040**

Garment weight: approx. 1,395 g

LADIES JACKET

Chillroom (0-10 °C)

Part number: **01183 1K008 001 2040**

Garment weight: approx. 1,365 g

Two-coloured • tight fitting collar of faux fur with hook&loop fastener • inside pocket for a pick-by-voice computer • lift-side chest pocket with pencil pocket and logo flap • 2 side pockets • left-side inside chest pocket with zipper • 2-way front zipper covered inwards • knitted cuffs • elastic waistband in the back • right-side reflective patch • reflective piping in the chest, arm and pocket areas • outer-layer hard-wearing • lighter non-woven insulation.

CONSTRUCTION: UPPER MATERIAL: 100 % POLYAMIDE, PADDING: TEMPEX® HIGH-BULK, INSULATING

NON-WOVEN, INNER LINING: 100 % POLYESTER

FABRIC WEIGHT: approx. 445 g/m²



CHILLROOM // COLD STORE

PPE for work in moderately cold conditions at temperatures between 0 °C and 10 °C. //

PPE for movement-intensive work at temperatures up to -49 °C, like order-picker work.

INTENSITY OF MOVEMENT: normal // intensive to normal

ITEM	COLOUR	COLOUR NO.	COLOUR NAME		REGULAR SIZES
1		2040	navy/red	-	46/48-58/60
2		45	navy	EN 342 Y: 0.391 (B) m² K/W AP: Class 2	Men: 46/48-58/60 Ladies: 36/38-44/46
3		2040	navy/red	EN 342 Y: 0.435 (B) m² K/W AP: Class 2	
4		45	navy		

FIELDS OF APPLICATION: Retail and Wholesale, Research, Catering and Restaurants, Cool chain logistics, Logistics centres, Pharmaceutical industry



Front zipper with chin protection

BODY WARMER

Chillroom (0-10 °C)

Part number: **01183 1K033 001 2040**

Garment weight: approx. 640 g

Two-coloured • stand-up fleece collar • left-side chest pocket with pencil pocket • 2 front pockets • front zipper with chin protection • right-side reflective patch • reflective piping in the chest area • outer-layer hard-wearing • lighter non-woven insulation.



Side pockets

Covered front zipper (only men's version)

Full-length 2-way leg zippers covered inwards

TROUSERS

Chillroom (0-10 °C)

Part number: **01183 2K008 006 45**

Garment weight: approx. 1,485 g

LADIES TROUSERS

Chillroom (0-10 °C)

Part number: **01183 2K003 003 45**

Garment weight: approx. 1,300 g

Single-coloured • adjustable suspenders • raised back waistband • covered front zipper (only for the men's model) • full-length 2-way leg zippers covered inwards • side pockets • knee pockets • reinforced hem made of the outer material • reflective patch on the straps • outer-layer hard-wearing • lighter non-woven insulation.



3 and 4 | Reflective piping in the chest, arm and pocket areas

JACKET ORDER PICKER

Cold Store (-49°C)
Part number: **01183 1K005 000 2040**
Garment weight: approx. 1,730 g

LADIES JACKET ORDER PICKER

Cold Store (-49°C)
Part number: **01183 1K006 000 2040**
Garment weight: approx. 1,535 g

Two-coloured • tight-fitting collar of faux fur with hook&loop fastener • left-side chest pocket with pencil pocket and logo flap • 2 side pockets • left-side inside chest pocket with zipper • inside pocket for a pick-by-voice computer • 2-way front zipper covered inwards • knitted cuffs • elastic waistband in the back • right-side reflective patch • reflective piping in the chest, arm and pocket areas • outer-layer hard-wearing.



Adjustable suspenders

Raised back

Side pockets

Additional knee insulation made of acrylic fur lining

TROUSERS ORDER PICKER

Cold Store (-49°C)
Part number: **01183 2K002 000 45**
Garment weight: approx. 1,665 g

LADIES TROUSERS ORDER PICKER

Cold Store (-49°C)
Part number: **01183 2K003 000 45**
Garment weight: approx. 1,550 g

Single-coloured • adjustable suspenders • covered front zipper (only for the men's model) • full-length 2-way leg zippers covered inwards • side pockets • knee pockets including additional knee insulation made of acrylic fur lining • reinforced hem made of the outer fabric • reflective patches on the straps • outer-layer hard-wearing.

CONSTRUCTION: UPPER MATERIAL: 100 % POLYAMIDE, PADDING: TEMPEX® HIGH-BULK, INSULATING

NON-WOVEN, INNER LINING: 100 % POLYESTER

FABRIC WEIGHT: CHILLROOM approx. 445 g/m² • COLD STORE approx. 545 g/m²



CHILLROOM





COLD STORE

COLD STORE // COLD STORE PLUS

PPE for movement-intensive work at temperatures up to -49 °C, like order-picker work. //

PPE for low-movement work at temperatures up to -49 °C, like forklift driver.

INTENSITY OF MOVEMENT: intensive to normal //

ITEM	COLOUR	COLOUR NO.	COLOUR NAME		REGULAR SIZES
1				EN 342 Y: 0.274 (R) m² K/W	
2		2040	navy/red	EN 342 Y: 0.443 (B) m² K/W	46/48-58/60
3				EN 342 Y: 0.508 (B) m² K/W	
4		45	navy	EN 342 Y: 0.511 (B) m² K/W (Plus) AP: Class 2	Men: 46/48-58/60 Ladies: 36/38-44/46
FIELDS OF APPLICATION: Retail and Wholesale, Research, Catering and Restaurants, Cool chain logistics, Logistics centres, Pharmaceutical industry					

1, 2 and 3 |
Tight-fitting collar
of faux fur

1, 2 and 3 |
Reflective piping in
the chest, arm and
pocket areas



Additional knee
insulation made of
acrylic fur lining



COAT VISITOR

Cold Store (-49 °C)

Part number: **01183 4K001 000 2040**

Garment weight: approx. 1,720g

Two-coloured • tight-fitting collar of faux fur with hook&loop fastener • left-side chest pocket with pencil pocket and logo flap • left-side inside chest pocket with zipper • 2 side pockets • 2-way front zipper covered inwards • knitted cuffs • elastic waistband in the back • right-side reflective patch • reflective piping in the chest, arm and pocket areas • outer-layer hard-wearing.

ORDER PICKER COVERALL

Cold Store (-49 °C)

Part number: **01183 3K001 000 2040**

Garment weight: approx. 2,600g

Two-coloured • tight-fitting collar of faux fur with hook&loop fastener • left-side chest pocket with pencil pocket and logo flap • left-side inside chest pocket with zipper • 2 side pockets • 2-way front zipper covered inwards • knitted cuffs • elastic leg zippers covered inwards • knee pockets including additional knee insulation made of acrylic fur lining • reinforced hem made of the outer fabric • right-side reflective patch • reflective piping in the chest, arm and pocket areas • outer-layer hard-wearing.

COLD
PROTECTION



1, 2, 3 and 4 |
Reflective piping
in the chest, arm
and pocket areas



JACKET FORKLIFT DRIVER

Cold Store Plus (-49 °C)

Part number: **01183 1K013 000 2040**

Garment weight: approx. 1,840 g

JACKET FORKLIFT DRIVER PLUS

Cold Store Plus (-49 °C)

Part number: **01183 1K018 000 2040**

Garment weight: approx. 2,090 g

Additional acrylic fur lining on the back.

Two-coloured • tight-fitting collar of faux fur with hook&loop fastener • left-side chest pocket with pencil pocket and logo flap • 2 side pockets • left-side inside chest pocket with zipper • 2-way front zipper covered inwards • knitted cuffs • elastic waistband in the back • right-side reflective patch • reflective piping in the chest, arm and pocket areas • outer-layer hard-wearing • extra-strong non woven insulation.

Raised back

Additional knee
insulation made of
acrylic fur lining



TROUSERS FORKLIFT DRIVER

Cold Store Plus (-49 °C)

Part number: **01183 2K010 000 45**

Garment weight: approx. 1,810 g

Single-coloured • adjustable suspenders • covered front zipper • full-length 2-way leg zippers covered inwards • side pockets • knee pockets including additional knee insulation made of acrylic fur lining • reinforced hem made of the outer fabric • reflective patches on the straps • outer-layer hard-wearing • extra-strong non woven insulation.

CONSTRUCTION: UPPER MATERIAL: 100 % POLYAMIDE, PADDING: TEMPEX® HIGH-BULK, INSULATING NON-WOVEN, INNER LINING: 100 % POLYESTER

FABRIC WEIGHT: COLD STORE approx. 545 g/m² • COLD STORE PLUS approx. 645 g/m²



COLD STORE



COLD STORE PLUS

TEMPEX® THERMO

TEMPEX® thermal fleece clothing offers additional protection against the cold and can be used to supplement your personal protective equipment for work in chill rooms and cold environments. Useful features include the slit pockets with zip fastener, abrasion protection on the forearms and the slightly tailored cut of the ladies' jacket.

ITEM	COLOUR	COLOUR NO.	COLOUR NAME	REGULAR SIZES
1 2 4		45	navy	Men: 46/48–58/60 Ladies: 36/38–44/46
3				46/48–58/60



FLEECE JACKET

Intermediate clothing
Part number: **07024 1K003 000 45**
Garment weight: approx. 535 g

LADIES FLEECE JACKET

Intermediate clothing
Part number: **07024 1K004 000 45**
Garment weight: approx. 430 g

Single-coloured • high collar • front zipper with chin protector • 2 side pockets with zipper • waistband with draw-string • extra forearm abrasion protection • extra soft.



BODY WARMER

Intermediate clothing
Part number: **07024 1K029 000 45**
Garment weight: approx. 360 g

LADIES FLEECE BODY WARMER

Intermediate clothing
Part number: **07024 1K030 000 45**
Garment weight: approx. 375 g

Single-coloured • high collar • front zipper with chin protector • 2 side pockets with zipper • elastic arm holes • waistband with draw-string • extra soft.



3 and 4 | This TEMPEX® fleecewear is referred to as reference clothing in the EN 342 standard, and it is used for the tests by certification institutes.



FLEECE SHIRT

Intermediate clothing

Part number: **07021 8K000 000 45**

Garment weight: approx. 290 g

Single-coloured • turtleneck • front zipper with chin protection • extra soft.



FLEECE TROUSERS

Intermediate clothing

Part number: **07024 2K004 000 45**

Garment weight: approx. 410 g

LADIES FLEECE TROUSERS

Intermediate clothing

Part number: **07024 2K005 000 45**

Garment weight: approx. 365 g

Single-coloured • elastic stretch waistband • elastic hem • extra soft.

MATERIAL: FLEECE: 100 % POLYESTER • TRIM MATERIAL: 100 % POLYESTER •

FABRIC WEIGHT: **1** | **2** | **4** | approx. 265 g/m² • **3** | approx. 155 g/m²

TEMPEX® THERMO

Clothing that adapts to your movement: The ergonomic cut of the TEMPEX® THERMO ERGOPLUS provides excellent freedom of movement for the wearer. The jackets have pre-formed sleeves with optimised pivot spacing and an extended "drop-tail" back, the body warmers have a close-fitting cut and the trousers have pre-formed legs. Both product lines can be combined with our cold store and chill room clothing. The ladies' versions have a slightly fitted cut.

ITEM	COLOUR	COLOUR NO.	COLOUR NAME	REGULAR SIZES
1 , 2 , 3 , 4 , 5 , 6		45	navy	Men: 46/48–58/60 Ladies: 36/38–44/46

JACKET ERGOPLUS

Intermediate clothing

Part number: **09020 1K021 001 45**

Garment weight: approx. 435 g

LADIES JACKET ERGOPLUS

Intermediate clothing

Part number: **09020 1K022 000 45**

Garment weight: approx. 445 g

Single-coloured • a maximum of movement freedom in any position by pre-formed sleeves with optimised length and drop-tail • high fleece collar • front zipper with chin protection • pencil pocket on the left side of the chest.



BODY WARMER ERGOPLUS

Intermediate clothing

Part number: **09020 1K034 001 45**

Garment weight: approx. 305 g

LADIES BODY WARMER ERGOPLUS

Intermediate clothing

Part number: **09020 1K035 000 45**

Garment weight: approx. 315 g

Single-coloured • a maximum of movement freedom in any position by ergonomically tailored fit • high fleece collar • front zipper with chin protection • pencil pocket on the left side of the chest.



TROUSERS ERGOPLUS

Intermediate clothing

Part number: **09020 2K015 000 45**

Garment weight: approx. 370 g

LADIES TROUSERS ERGOPLUS

Intermediate clothing

Part number: **09020 2K016 000 45**

Garment weight: approx. 400 g

Single-coloured • elastic waistband • front zipper • a maximum of movement freedom in any position by pre-formed legs • legs with fleece at the bottom.





JACKET

Intermediate clothing
Part number: **09020 1K002 000 45**
Garment weight: approx. 450 g

LADIES JACKET

Intermediate clothing
Part number: **09020 1K010 001 45**
Garment weight: approx. 435 g

Single-coloured • high collar made of fleece • front zipper • left-side inside chest pocket with pencil pocket (ladies' jacket without) • knitted cuffs.



Men

BODY WARMER

Intermediate clothing
Part number: **09020 1K023 001 45**
Garment weight: approx. 285 g

LADIES BODY WARMER

Intermediate clothing
Part number: **09020 1K025 000 45**
Garment weight: approx. 295 g

Single-coloured • high collar made of fleece • front zipper • left-side inside chest pocket with pencil pocket (ladies' body warmer without).



Men

4 and 5 | Inside chest pocket with pencil pocket



Men

Leg end with knitted cuffs

TROUSERS

Intermediate clothing
Part number: **09020 2K009 000 45**
Garment weight: approx. 400 g

LADIES TROUSERS

Intermediate clothing
Part number: **09020 2K011 000 45**
Garment weight: approx. 350 g

Single-coloured • elastic waistband • front zipper • leg end with knitted cuffs.

CONSTRUCTION: UPPER MATERIAL: 100 % POLYAMIDE, PADDING: DIAMOND NON-WOVEN INSULATION,

INNER LINING: 100 % POLYESTER






FABRIC WEIGHT: approx. 245 g/m²

CHILLROOM // COLD STORE

PPE for work in moderately cold conditions at temperatures between 0 °C and 10 °C. //

PPE for movement-intensive work at temperatures up to -49 °C, like order-picker work.

INTENSITY OF MOVEMENT: normal // intensive to normal

ITEM	COLOUR	COLOUR NO.	COLOUR NAME		REGULAR SIZES
1		3116	white/silver grey/ fluorescent yellow	EN 342 Y: 0.371 (B) m² K/W AP: Class 2	46/48–58/60
2				–	
3		2237	white/silver grey	EN 342 Y: 0.371 (B) m² K/W AP: Class 2	
4		3116	white/silver grey/ fluorescent yellow	EN 342 Y: 0.417 (B) m² K/W AP: Class 2	
5				EN 342 Y: 0.267 (R) m² K/W AP: Class 2	
6		2237	white/silver grey	EN 342 Y: 0.417 (B) m² K/W AP: Class 2	
FIELDS OF APPLICATION: Food industry					



1, 2 and 3 | Reflective piping in the chest and sleeve area

Reflective patch on the straps

JACKET

Chillroom (0-10 °C)

Part number: **01174 1K007 001 3116**

Garment weight: approx. 1,180g

Three-coloured • tight-fitting collar made of fleece with hook&loop fastener • 2 inside chest pockets with zipper • 2-way front zipper covered inwards • knitted cuffs • elastic waistband in the back • right-side reflective patch • reflective piping in the chest and arm areas • lighter non-woven insulation.

BODY WARMER

Chillroom (0-10 °C)

Part number: **01174 1K024 000 3116**

Garment weight: approx. 590g

Three-coloured • tight-fitting collar made of fleece • 2 inside chest pockets with zipper • 2-way front zipper • right-side reflective patch • reflective piping in the chest area • lighter non-woven insulation.

TROUSERS

Chillroom (0-10 °C)

Part number: **01174 2K008 005 2237**

Garment weight: approx. 1,200g

Three-coloured • adjustable suspenders • raised back • covered front zipper • full-length 2-way leg zippers covered inwards • reinforced hem made of the outer fabric • reflective patch on the straps • lighter non-woven insulation.

**JACKET ORDER PICKER**

Cold Store (-49°C)

Part number: **01174 1K005 001 3116**

Garment weight: approx. 1,205 g

Three-coloured • tight-fitting collar made of fleece with hook&loop fastener • 2 inside chest pockets with zipper • 2-way front zipper covered inwards • knitted cuffs • elastic waistband in the back • right-side reflective patch • reflective piping in the arm- and chest area.

COAT VISITOR

Cold Store (-49°C)

Part number: **01174 4K001 001 3116**

Garment weight: approx. 1,565 g

Three-coloured • tight-fitting collar made of fleece with hook&loop fastener • 2 inside chest pockets with zipper • large inside pocket • 2-way front zipper covered inwards • knitted cuffs • elastic waistband in the back • right-side reflective patch • reflective piping in the chest and arm area.

TROUSERS

Cold Store (-49°C)

Part number: **01174 2K008 003 2237**

Garment weight: approx. 1,365 g

Three-coloured • adjustable suspenders • raised back • covered front zipper • full-length 2-way leg zippers covered inwards • knee pockets • reinforced hem made of the outer fabric • reflective patch on the straps.

CONSTRUCTION: UPPER MATERIAL: 100 % POLYAMIDE, PADDING: TEMPEX® HIGH-BULK, INSULATING NON-WOVEN, INNER LINING: 100 % POLYESTER

FABRIC WEIGHT: CHILLROOM approx. 415 g/m² • COLD STORE approx. 515 g/m²




CHILLROOM



COLD STORE

TEMPEX® THERMO HYGIENE

Clothing that adapts to your movement: The ergonomic cut of the TEMPEX® THERMO ERGOPLUS provides excellent freedom of movement for the wearer. The jackets have pre-formed sleeves with optimised pivot spacing and an extended "drop-tail" back, the body warmers have a close-fitting cut and the trousers have pre-formed legs. Both product lines can be combined with our cold store and chill room clothing. The ladies' versions have a slightly fitted cut.

ITEM	COLOUR	COLOUR NO.	COLOUR NAME	REGULAR SIZES
1 2 3 4 5 6		10	white	Men: 46/48–58/60 Ladies: 36/38–44/46

JACKET ERGOPLUS

Intermediate clothing

Part number: **09020 1K021 000 10**

Garment weight: approx. 435 g

LADIES JACKET ERGOPLUS

Intermediate clothing

Part number: **09020 1K042 000 10**

Garment weight: approx. 445 g

Single-coloured • a maximum of movement freedom in any position by pre-formed sleeves with optimised length and drop-tail • high collar, with fleece inside • front zipper with chin protection • pencil pocket on the left side of the chest, with pen compartment on the left.



Men

BODY WARMER ERGOPLUS

Intermediate clothing

Part number: **09020 1K034 000 10**

Garment weight: approx. 305 g

LADIES BODY WARMER ERGOPLUS

Intermediate clothing

Part number: **09020 1K035 001 10**

Garment weight: approx. 315 g

Single-coloured • a maximum of movement freedom in any position by ergonomically tailored fit • high collar, with fleece inside • front zipper with chin protection • pencil pocket on the left side of the chest, with pen compartment on the left.



Men

TROUSERS ERGOPLUS

Intermediate clothing

Part number: **09020 2K015 000 10**

Garment weight: approx. 370 g

LADIES TROUSERS ERGOPLUS

Intermediate clothing

Part number: **09020 2K016 000 10**

Garment weight: approx. 400 g

Single-coloured • elastic waistband • front zipper • a maximum of movement freedom in any position by pre-formed legs • legs with fleece at the bottom.



Pre-formed legs

Legs with fleece at the bottom

Men



JACKET

Intermediate clothing
Part number: **09020 1K002 001 10**
Garment weight: approx. 450 g

LADIES JACKET

Intermediate clothing
Part number: **09020 1K010 000 10**
Garment weight: approx. 435 g

Single-coloured • high collar made of fleece • front zipper • left-side inside chest pocket with pencil pocket (ladies' jacket without) • knitted cuffs.



BODY WARMER

Intermediate clothing
Part number: **09020 1K023 000 10**
Garment weight: approx. 285 g

LADIES BODY WARMER

Intermediate clothing
Part number: **09020 1K025 001 10**
Garment weight: approx. 295 g

Single-coloured • high collar made of fleece • front zipper • left-side inside chest pocket with pencil pocket (ladies' body warmer without).



TROUSERS

Intermediate clothing
Part number: **09020 2K009 000 10**
Garment weight: approx. 400 g

LADIES TROUSERS

Intermediate clothing
Part number: **09020 2K001 001 10**
Garment weight: approx. 350 g

Single-coloured • elastic waistband • front zipper • leg end with knitted cuffs.



CONSTRUCTION: UPPER MATERIAL: 100 % POLYAMIDE, DIAMOND NON-WOVEN INSULATION, 100 % POLYESTER INNER LINING





FABRIC WEIGHT: approx. 245 g/m²

TEMPEX® COLD Pro

COLD STORE

PPE for movement-intensive work at temperatures up to -49 °C, like order-picker work.

INTENSITY OF MOVEMENT: intensive to normal

ITEM	COLOUR	COLOUR NO.	COLOUR NAME				REGULAR SIZES
1 ,3		2128	grey/black	EN 342 Y: 0,428 (B) m² K/W AP: Class 2	EN 17353 Type B2	Reduced temperature 60 °C	S-2XL
2				-	-		

FIELDS OF APPLICATION: Retail and Wholesale, Research, Catering and Restaurants, Cool chain logistics, Logistics centres, Pharmaceutical industry



1| Combinable with button-in quilted jacket on the opposite page



Flap with reflective application for easy pocket opening

Preformed sleeves



JACKET

Cold Store (-49 °C)

Part number: **01174 15001 000 2128**

Garment weight: approx. 1,750 g

Two-coloured • modern, ergonomic cut • high stand-up collar, inside made of soft functional material • 2 breast pockets (left with pen compartment) with flap and covered snap fastener • 2 front pockets with flap and covered snap fastener • chin guard • full-length 2-way front zip to collar end, covered with snap fasteners • reflective applications • inside pocket for pick-by-voice computer • leasing collar • reflective stripes, suited for industrial laundry • standard pictograms as direct embroidery on the right arm.



Loop for buttoning in
the outer jacket



Reflective stripes
for higher visibility



For even higher
protection against
cold combinable
with our TEMPEX®
COLD Pro jacket

2 |



INNER JACKET

Cold Store (-49°C)

Part number: **09057 15002 000 2128**

Garment weight: approx. 790 g

Two-coloured • maximum freedom of movement in all body positions thanks to pre-shaped sleeves with optimised lever length and extended back (droptail) • 2 side pockets with covered zip • high collar, soft functional material inside • front zip with chin guard • 2 inside breast pockets with pen compartment.

3 |

Reflective
applications

Full-length
2-way leg
zips, covered
inside



TROUSER

Cold Store (-49°C)

Part number: **01174 25001 000 2128**

Garment weight: approx. 1,730 g

Two-coloured • length-adjustable elasticated braces • raised back waistband • covered front zip • full-length 2-way leg zips, covered inside • side insert pockets • reinforced hem made from outer fabric • reflective applications • leasing collar • reflective stripes, suited for industrial laundry • standard pictograms as direct embroidery on left leg.

CONSTRUCTION: UPPER MATERIAL: 100 % POLYAMIDE; PADDING: ISOLIERVLIES suitable for leasing,

INNER LINING: 100 % POLYESTER

FABRIC WEIGHT: 1 | and 3 | approx. 620 g/m² • 2 | approx. 460 g/m²



COLD STORE

TEMPEX® THERMO ACCESSORIES

In a multi-layered clothing system the underwear plays an important role. It protects the wearer from cooling down due to the close-to-skin fit providing insulating and moisture-regulating properties. Our underwear offers high wearing comfort and allows a climate regulation for high active working thanks to its material composition.

UNDERSHIRT LONG-SLEEVE

Accessories

Part number: **04036 7Z015 000 45**

Garment weight: approx. 215 g

Single-coloured • double knitted • comfortable raglan sleeve • close-fitting cuff • extra-long back • non-bulky flat seams • fine functional fabric • breathable • suitable for movement-intensive activities.

Material: 55 % Polyester, 45 % Cotton

Sizes: 5–8

 navy



UNDERSHIRT TROYER LONG-SLEEVE

Accessories

Part number: **04036 7Z015 002 45**

Garment weight: approx. 230 g

Single-coloured • double knitted • collar with short front zipper • comfortable raglan sleeve • close-fitting cuff • extra-long back • non-bulky flat seams • fine functional fabric • breathable • suitable for movement-intensive activities.

Material: 55 % Polyester, 45 % Cotton

Sizes: 5–8

 navy



UNDERPANTS LONG

Accessories

Part number: **04036 7Z016 000 45**

Garment weight: approx. 205 g

Single-coloured • double knitted • elastic waistband • leg end with cuff • non-bulky flat seams • fine functional fabric • breathable • suitable for movement-intensive activities.

Material: 55 % Polyester, 45 % Cotton

Sizes: 5–8

 navy



KIDNEY BELT

Accessories

Part number: **07024 7K003 000 45**

Single-coloured • hook&loop fastener for adjusting waist circumference • extra soft.

Material: 100 % Polyester

Sizes: S–2XL

 navy





The face and head are more sensitive to differences in temperature than other parts of the body. We offer reliable accessories for the cold weather. Our range includes hoods, hats, caps, insulated helmets, neck warmers and fleece mouth protectors.

ALASKA HOOD

Accessories

Part number: **04046 7Z005 000 45**

Single-coloured • faux fur lining • made of 65 % Polyester and 35 % Cotton • forehead protection • neck protection • ear protection • hook&loop strap for securing the ear protection in place.

Sizes: 1/56–5/64

Sale unit: 1 piece

■ navy

This TEMPEX® hood is referred to as reference clothing in the EN 342 standard, and it is used for the tests by certification institutes.



Matching the TEMPEX® collections

HOOD CLASSIC

Accessories

Part number: **01174 7K001 001 45**

Single-coloured • tight-fitting knitted • chin area with adjustable snap fastener • field of vision adjustable via drawstring and stopper • faux fur lining • made of 100 % Polyamide • 2 button holes for possible attachment • matching the TEMPEX® CLASSIC collection.

One size

Sale unit: 1 piece

■ navy



Matching the TEMPEX® CLASSIC collection

HOOD COMFORT

Accessories

Part number: **01183 7K001 000 45**

Single-coloured • tight-fitting knitted • chin area with adjustable hook&loop fastener • field of vision adjustable via drawstring and stopper • faux fur lining • made of 100 % Polyamide • 2 button holes for possible attachment • outer-layer hard-wearing • matching the TEMPEX® COMFORT collection.

One size

Sale unit: 1 piece

■ navy



Matching the TEMPEX® COMFORT collection

HOOD HYGIENE

Accessories

Part number: **01174 7K001 002 10**

Single-coloured • tight-fitting knitted • chin area with adjustable hook&loop fastener • field of vision adjustable via drawstring and stopper • faux fur lining • made of 100 % Polyamide • 2 button holes for possible attachment • matching the TEMPEX® HYGIENE collection.

One size

Sale unit: 1 piece

□ white



Matching the TEMPEX® HYGIENE collection

TEMPEX® THERMO ACCESSORIES

The face and head are more sensitive to differences in temperature than other parts of the body. We offer reliable accessories for the cold weather. Our range includes hoods, hats, caps, insulated helmets, and neck warmers.

KNITTED CAP

Accessories

Part number: **04045 7Z009 000 + COLOUR NO.**

Single-coloured • double knitted • scotchgard treatment • thinsulate lining • made of 100 % Polyacrylic.

One size

Sale unit: 1 piece

 **46** black

 **10** white



BALACLAVA, DOUBLE-LAYERED

Accessories

Part number: **04044 7Z014 000 46**

Single-coloured • 2-ply • face opening with elastic strap for flexible and secure fit • made of 100 % Polyacrylic.

One size

Sale unit: 1 piece

 black



BALACLAVA

Accessories

Part number: **04036 7Z014 001 45**

Single-coloured • fine functional fabric • face opening with elastic strap for flexible and secure fit • made of 55 % Polyester and 45 % Cotton.

One size

Sale unit: 1 piece

 navy



COLD
PROTECTION



PROTECTIVE HELMET POLY

Accessories

Part number: **90022 7Z006 012 25**

Single-coloured • storage pocket for hearing protection • removable, washable insulated inside part • insulation insert made of 100 % Polyester • with button holes to fix with helmet • tested down to -30 °C • fits with insulation insert.

One size (51–64 cm)

Sale unit: 1 piece

■ red

Standards:



Removable, washable
insulated insert

INSULATING INSERT

Accessories

Part number: **01158 7K000 000 48**

Single-coloured • storage pocket for hearing protection • removable, washable insulated inside part • insulation insert made of 100 % Polyester • with button holes to fix with helmet • tested down to -20 °C • fits with POLY helmet.

One size

Sale unit: 1 piece

■ dark blue



PROTECTIVE HELMET POLY WITH INSULATING INSERT

Accessories

Part number: **90022 75001 000 25**

Description see protective helmet and insulation insert.

One size (51–64 cm)

Sale unit: 1 piece

■ red and ■ dark blue

Standards:



FLEECE NECK WARMER

Accessories

Part number: **07034 75000 000 46**

Single-coloured • soft fleece material • made of 100% recycled Polyethylene Terephthalate • suited for industrial laundry.

One size

Sale unit: 1 piece

■ black



Soft lap seam on
the back



GRS – Global Recycled Standard



This product is developed from recycled PET bottles which have been collected in Europe and is GRS certified. The production of the rPET yarn requires 60 % less energy and avoids 2.4 kg of waste per kg of yarn. GRS is an international, voluntary and full product standard and defines requirements for the certification of recycled materials in terms of chain of custody, social and environmental practices and chemical restrictions.

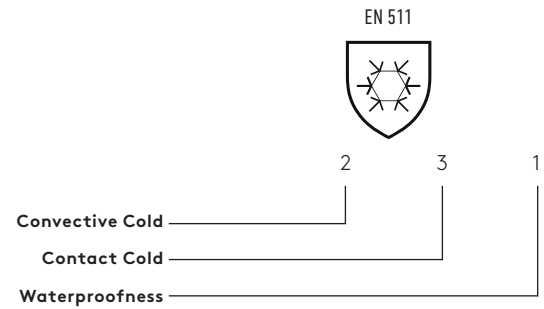
TEMPEX® THERMO ACCESSORIES

With us, you will find the right cold protection gloves for your work in the deep-freeze or cold room area – suitable for a wide range of applications in trade as well as in industry, logistics and research.

Besides our new cold protection gloves with certified protection against cold and mechanical risks, which are particularly suitable for order pickers, we also offer fleece and underlay gloves.

Protective gloves against cold EN 511:2006

This standard specifies the test methods and performance requirements of protective gloves against cold. The insulating capacity of the material on contact, the resistance to progressively penetrating cold and the thermal resistance to direct contact with a cold object are measured. The three-digit code next to the standard pictogram indicates the performance levels, with 0 corresponding to the weakest and 4 to the highest performance. Water resistance is defined with two performance levels: 0 = Water penetration after 30 min, 1 = No water penetration after 30 min.



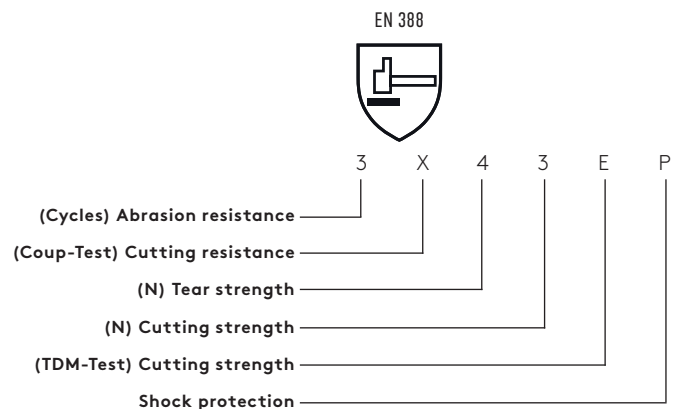
Performance levels for protective gloves against cold according to EN 511

Test	Performance Level			
	1	2	3	4
Convective Cold Thermal Insulation/ t_{TR} (in $m^2 K/W$) (Insulation value)	$0,10 \leq t_{TR} < 0,15$	$0,15 \leq t_{TR} < 0,22$	$0,22 \leq t_{TR} < 0,30$	$0,30 \leq t_{TR}$
Contact Cold Thermische Isolation/ t_{TR} (in $m^2 K/W$) (Widerstandswerte)	$0,025 \leq R < 0,050$	$0,050 \leq R < 0,100$	$0,100 \leq R < 0,150$	$0,150 \leq R$
Waterproofness	No water penetration			

4 means the highest and 1 means the lowest performance level.
X means "not tested". 0 means "below the minimum requirements".

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".

FIELDS OF APPLICATION: Retail and Wholesale, Research, Catering and Restaurants, Cool chain logistics, Food Industry, Logistics centres, Pharmaceutical industry



ITEM			MATERIAL LAYER CONSTRUCTION			SIZES
			BACK OF HAND	LINING	PALM OF HAND	
1	EN 511 111	EN 388 2X22C	Polyester	HPPE, polyester and steel fiber thread	Synthetic leather	6-12
2		EN 388 2111X	Spandex	Thinsulate™ 40g	Full grain goat leather	7-12

1|

Forefinger reinforcement

Suitable for Touchscreens



COOL ENVIRONMENT

GLOVES TOUCH & CUT 4

Accessories

Part number: **04103 76027 004 2128**

Two-coloured • forefinger reinforcement • reinforced fingertips • waterproof • cut protection A4 • velcro fastener • chromium-free • suitable for cool environments • suitable for order pickers • suitable for Touchscreens.

grey/black

2|

Signal color

Suitable for Touchscreens



COLD ENVIRONMENT

GLOVES TOUCH & HI-VIS

Accessories



Part number: **14016 76027 005 2171**

Two-coloured • forefinger reinforcement • reinforced fingertips • waterproof • cut protection A4 • velcro fastener • chromium-free • suitable for cool environments • suitable for order pickers • suitable for Touchscreens.

fluorescent yellow/black

TEMPEX® THERMO ACCESSORIES

Our cold protection gloves for order picking work offer certified protection that you can rely on for your work in the deep-freeze area down to -49°C , as well as in the fresh and cold storage area between 0°C and 10°C . All models are made of high-quality materials and are elaborately finished.

ITEM			MATERIAL LAYER CONSTRUCTION			SIZES
			BACK OF HAND	LINING	PALM OF HAND	
1	EN 511 1 2 X	EN 388 2 1 4 1 X	Neoprene	Fleece	MACROTHAN® (Nylon and PU)	7-11
2	EN 511 2 2 1	EN 388 2 1 2 1 X	Polyester	Thinsulate™ 100g, Fleece	MICROTHAN® + (Nylon and PU)	7-13
3	EN 511 2 2 0	EN 388 2 2 3 2 X	Leather	Knitted pile	Leather	8-10

1

Robust palm protection



COLD ENVIRONMENT

GLOVES TK PRO

Accessories

Part number: **04039 7Z000 010 2049**

Two-coloured • ergonomically designed fingers and thumb • finger and thumb reinforcement reinforced fingertips • moisture-resistant and windproof back of the hand • robust inside hand protection • 360° cuff • with reflective elements • chromium-free • suitable for cold environments • suitable for order pickers.

 black/middle grey

2



COLD ENVIRONMENT

GLOVES AQUA PRO

Accessories

Part number: **04102 76027 001 3395**

Three-coloured • ergonomically designed fingers and thumb • reinforced fingertips • waterproof, windproof and moisture-resistant • especially robust • 360° cuff • with reflective elements • chromium-free • suitable for cold environments • suitable for order pickers.

 middle grey/black/yellow

3



COLD ENVIRONMENT



GLOVES 2 2 0 PLUS, KNIT

Accessories

Part number: **14004 7Z000 006 2099**

Two-coloured • backs of hand made of split leather • palms made of full grain leather • knitted cuffs • foam insulation up to the start of the cuff • hard-wearing • suitable for order pickers.

 middle grey/black

ITEM			MATERIAL LAYER CONSTRUCTION			SIZES
			BACK OF HAND	LINING	PALM OF HAND	
1	EN 511 2 2 1	EN 388 2 2 2 2 X	Neoprene, full grain goat leather	Thinsulate™ 120 g	Full grain goat leather	7-12
2	EN 511 2 3 1	EN 388 2 1 2 2 X	Neoprene, Polyester	Thinsulate™ 150 g	Full grain cowhide leather	
3						

1 |

Full-leather glove





VERY COLD ENVIRONMENT

GLOVES LEATHER PRO
 Accessories
 Part number: **14013 76027 000 46**

Single-coloured • ergonomically designed fingers • forefinger and thumb reinforcement • reinforced fingertips • waterproof • moisture-resistant • especially robust • velcro fastener • with reflective elements • suitable for very cold environments • suitable for order pickers.

 black

2 |

Long model





VERY COLD ENVIRONMENT

GLOVES ALLROUND
 Accessories
 Part number: **14014 76027 002 2415**

Two-coloured • ergonomically designed fingers • finger and thumb reinforcement • waterproof • moisture-resistant and windproof back of the hand • robust inside hand protection • 360° cuff • long model • suitable for very cold environments • suitable for order pickers.

 black/white

3 |

Signal colour






VERY COLD ENVIRONMENT

GLOVES ALLROUND HI-VIS
 Accessories
 Part number: **14015 76027 003 3396**

Three-coloured • signal colour • ergonomically designed fingers • finger and thumb reinforcement • waterproof • moisture-resistant and windproof back of the hand • robust inside hand protection • 360° cuff • long model • suitable for very cold environments • suitable for order pickers.

 fluorescent green/white/black

TEMPEX® THERMO ACCESSORIES

In addition to our certified range of cold protection gloves, we also offer fleece, knitted and underlay gloves in various designs.

ITEM	LINING	MATERIAL	SIZES
1	Thinsulate™ 100g	Polyester	8, 10
2			8-11
3			



These gloves are referred to as reference clothing in the EN 342 standard, and it is used for the tests by certification institutes.



FLEECE GLOVES, GRIP

Accessories

Part number: **07029 7Z000 002 46**

Single-coloured • palms and 4 fingers covered with leather for grip safety • elastic band at the wrist • extra soft.

 black

FLEECE GLOVES, KNIT & GRIP

Accessories

Part number: **07029 7Z000 003 46**

Single-coloured • palms and 4 fingers covered with leather for grip safety • knitted cuffs • extra soft.

 black

FLEECE GLOVES, RUBBER GRIP

Accessories



Part number: **07029 7Z000 000 46**

Single-coloured • palms covered with tough rubber nubs for grip safety • elastic band at the wrist • extra soft.

 black

COLD
PROTECTION



ITEM			MATERIAL	SIZES
1	-	EN 388 2 1 4 X X	Cotton, Polyamide	8-10
2	-	-	Polypropylene	One size

1|



EN 388

Additional insulation
underneath cold
protection gloves

KNITTED GLOVES, GRIP

Accessories

Part number: **04037 7Z000 005 45**

Single-coloured • palms covered with rubber nubs or grip
safety • knitted cuffs.

 navy

2|

Processed
seamless



UNDERGLOVES

Accessories

Part number: **04038 7Z000 004 45**

Single-coloured • wearable as additional insulation
underneath cold protection gloves • elastic material •
processed without a seam • can be combined with
all TEMPEX® cold protection gloves.

 navy

▶ TEMPEX® THERMO ACCESSORIES

Our thermal safety boots are made of grained, water-resistant cow leather and have a non-slip, cold-resistant and insulated sole. Insulated steel, fibre glass or plastic toecaps ensure additional safety. Easy to put on and featuring a genuine lambswool or Loden/Primaloft lining, a high level of comfort is guaranteed.

S2 INSULATED SAFETY BOOTS

Accessories

Part number: **14003 7Z011 000 + COLOUR NO.**

Two-coloured • made of grained, water-resistant cow leather • nonslip, cold-resistant and cold-insulated outsole • completely lined with real lambskin • aluminized insole • easy to put on thanks to slanted zipper • insulated steel toecap.

Sizes: 37–50

2001 white/yellow
2046 black/red

Standards:



EN 20345



S2 LACED SAFETY BOOTS

Accessories

Part number: **14003 7Z011 001 46**

Single-coloured • made of grained, water-resistant cow leather • nonslip, cold-resistant and cold-insulated outsole • completely lined with real lambskin • aluminized insole • insulated steel toecap • good fit by lacing.

Sizes: 36–50

black

Standards:



EN 20345



S3 SAFETY BOOTS

Accessories

Part number: **14003 76033 001 46**

Single-coloured • made of grained, water-resistant cow leather • nonslip, cold-resistant and cold-insulated outsole • completely lined with real lambskin • aluminized, preshaped insole • plastic zipper • insulated plastic toecap • non-metallic penetration protection.

Sizes: 36–48

black

Standards:



EN 20345



COLD
PROTECTION



S3 INSULATED SAFETY BOOTS

Accessories

Part number: **14017 76033 000 66**

Single-coloured • nubuk leather, waxed • nonslip, cold-resistant and cold insulated outsole • Loden lining combined with Primaloft • aluminium layer in the sole • toe cap out of fibreglass • quick lacing system for easy and fast slip on an off.

Sizes: 39–47

■ brown

Standards:



EN 20345

Quick lacing system
for easy and fast slip
on an off



UNIVERSAL SOCKS

Accessories

Part number: **04041 7Z013 001 528**

Single-coloured • made of a virgin wool blend • felted wool sole.

One size

Sale unit: 1 piece

■ dark grey



ALASKA SOCKS

Accessories

Part number: **04042 7Z013 000 52**

Single-coloured • made of a virgin wool blend • extremely effective insulation for long-term exposure.

Sizes: 37-38 to 47-48

Sale unit: 1 pair

■ middle grey



LINER SOCKS

Accessories

Part number: **03018 7Z003 000 52**

Single-coloured • made of tricot • flannel lining.

Sizes: 38–47

Sale unit: 1 piece

■ middle grey

FIRE & RESCUE SERVICES

GO ALL OUT FOR YOUR MISSION

In addition to high-quality day shift wear for fire brigades, we also offer modern protective clothing for technical assistance and area fire fighting.

They meet the highest functional demands and also impress with a great look, useful features and outstanding wearing comfort. So much in fact, that you'll be happy to keep them on even after you've gone off duty.





Model: Lara, Sourcing
Collection: HB-Wildfire®

Flammgard® KLASSIK

Like all Flammgard® products, this station wear is made of a hard-wearing and high-quality fabric. Firefighters wear it when they are not on fire duty – e.g. for equipment maintenance, training courses or fire safety watches. It is comfortable like leisure wear, looks presentable and also protects in case of fire.

ITEM	COLOUR	COLOUR NO.	COLOUR NAME		REGULAR SIZES
1 ,2		48	dark blue	EN ISO 11612 A1+A2/B1/C1	Men: 46–58, 23–29, 94–110 Ladies: 36–46, 18–23, 72–92
FIELDS OF APPLICATION: Station wear for firemen					



BLOUSON

Station wear FR
Part number: **01041 10160 000 48**
Garment weight: approx. 1,100g

LADIES BLOUSON

Station wear FR
Part number: **01041 10168 005 48**
Garment weight: approx. 1,040g

Single-coloured • shoulder tunnel for rank badge • collar with flap and hook&loop fastening • closure strip with zip and covered snap fasteners on both sides • 2 breast pockets with flaps with zip • right-hand flap with hook&loop tape for name badge • left-hand pocket with loop and metal half ring • 2 side pockets as piped pockets with zips • 2 inside pockets • adjustable cuff width thanks to concealed zip • hem band elasticated on the side • back with side folds for freedom of movement.

Female cut





2 |



Men



Reinforced elbows

JACKET

Station wear FR

Part number: **01041 10162 000 48**

Garment weight: approx. 1,150 g

LADIES JACKET

Station wear FR

Part number: **01041 10174 000 48**

Garment weight: approx. 1,100 g

Single-coloured • shoulder tunnel for rank badge • collar with flap and hook&loop fastening • front zipper with snap fasteners covered on both sides • breast pockets with flaps and hook&loop fastening • right-hand flap with hook&loop tape for name badge • left-hand pocket with loop and metal half ring • 2 inside pockets • wristbands adjustable via hook&loop • reinforced elbows • hem with drawstring and safety catch • back with yoke partition.



Female cut

Ladies

MATERIAL: 49 % ARAMIDE, 50 % VISCOSE FR, 1 % CARBON

FABRIC WEIGHT: approx. 300 g/m²



Flammgard® KLASSIK

As a basic collection, Flammgard® Klassik also includes women's models, different trouser variants, optionally with elastic waistband or yellow-silver-yellow reflective stripes, as well as a fleece jacket and a softshell jacket in addition. All Flammgard® models convince with many details such as elbow reinforcement or a hook&look tape for name tags.

ITEM	COLOUR	COLOUR NO.	COLOUR NAME			REGULAR SIZES
3		48	dark blue			Men: 46-58, 23-29, 94-110 Ladies: 36-46, 18-23, 72-92
		2051	dark blue/fluorescent yellow			
4		46	black	-	-	46-58, 23-29, 94-110
5		45	navy	-	-	S-2XL
FIELDS OF APPLICATION: Station wear for firemen						

LADIES TROUSERS

Station wear FR
Part number: **01041 20117 000 48**
Garment weight: approx. 700 g

TROUSERS, ELASTIC WAISTBAND

Station wear FR
Part number: **01041 20109 000 48**
Garment weight: approx. 730 g

TROUSERS WITH REFLECTIVE TAPE

Station wear FR
Part number: **01041 20086 008 48**
Garment weight: approx. 770 g
Reflective stripes parallel to the seam • no high-visibility protective clothing acc. to EN ISO 20471 and EN 17353.

LADIES TROUSERS WITH REFLECTIVE TAPE

Station wear FR
Part number: **01041 20117 003 2051**
Garment weight: approx. 740 g
Reflective stripes parallel to the seam • no high-visibility protective clothing acc. to EN ISO 20471 and EN 17353.

Single-coloured • waistband with hook&loop fastening • 2 pleats at the front, 4 darts at the back • covered zip fastener • 2 slant pockets • 1 back pocket with flap and zip • 2 bellow pockets on the side seam with flaps and zips • adjustable hem with elastic • front of trousers and crotch with flame-retardant cotton lining • seat seam designed to be easy to modify.



ACCESSORIES

Accessories

Adapter for rank badge

Part number: **01041 70044 000 48**
Flap with hook&loop fastening.

Name badges

Black-stitched border • first and last name individually embroidered in red, silver or gold.





SOFTSHELLJACKET

Station wear

Part number: **11001 10161 014 46**

Garment weight: approx. 1,070g

Single-coloured • shoulder tunnel for rank badge • collar with flap and hook&loop fastening • front zipper with covered snap fastener • 2 breast pockets with flap and snap fastener • right-hand pocket with pen compartment and hook&loop tape for name badge on the flap • loop with metal half ring in the pocket • 2 side pockets as welt pockets with zips • 1 Napoleon pocket • 1 closable inside mobile phone pocket • wristbands adjustable via covered snap fastener • with black mesh lining.

Shoulder tunnel for rank badge

4 |

Hook&loop tape for name badge



FLEECE JACKET

Station wear

Part number: **07001 10151 000 45**

Garment weight: approx. 700g

Single-coloured • stand-up collar with zip fastening • front zipper • breast pocket with flap and hook&loop fastening • flap with pen opening • side pockets as welt pockets • sleeves with inner knit cuffs and underarm reinforcement • hem with ribbed structure.

5 |

Flap with pen opening

Hem with ribbed structure



MATERIAL: 3 | 49 % ARAMIDE, 50 % VISCOSE FR, 1 % CARBON · 4 | 94 % POLYESTER, 6 % ELASTANE ·

5 | 100 % POLYESTER ·




FABRIC WEIGHT: 3 |, 4 | and 5 | approx. 300 g/m²





Flammgard® KLASSIK Green Turtle

As a useful addition to the equipment of firefighters on day duty, we now also offer matching shirts, blouses and polo shirts. Thanks to the exceptionally light and highly functional materials such as Coolmax® Piqué and organic cotton, as well as a modern and comfortable cut, they are very comfortable to wear. An outfit that is a pleasure to wear even after work.

ITEM	COLOUR	COLOUR NO.	COLOUR NAME	REGULAR SIZES
1		488	black blue	Men: S-2XL Ladies: XS-L
2 ,3		10	white	Men: 39/40-47/48 Ladies: 36-46
		471	pastel blue	
FIELDS OF APPLICATION: Station wear for firemen				



Chest pocket with button closure

Men



Sleeve hem with cuffs

Ladies' shirt with slightly feminine cut

With short slits

POLOSHIRT

Station wear

Part number: **90027 86045 000 488**

Garment weight: approx. 220 g

LADIES POLOSHIRT

Station wear

Part number: **90027 86046 000 488**

Garment weight: approx. 190 g

Single-coloured • polo placket with buttoning • chest pocket on the left incl. pen compartement and button • sleeve hem with cuffs • stylish shirt length, with short slits • slightly extended back • incl. Coolmax® and ecofresh (fast drying and breathable) • UPF40 • with silver ions to reduce bacterial activity by 99%. Ladies' shirt with feminine cut.



Adapter for rank badge
Flap with hook & loop fastening.
03028 70044 001 + COLOUR NO.

BLOUSE SHORT-SLEEVE

Station wear
Part number: **03028 60031 001 + COLOUR NO.**
Garment weight: approx. 190 g

BLOUSE LONG-SLEEVE

Station wear
Part number: **03028 60031 000 + COLOUR NO.**
Garment weight: approx. 240 g
Sleeve ends with cuff, slit and button closure.

Single-coloured • turn-down collar • front closure with buttons • shoulder with tunnel for badge • darts at chest height and at the back • chest pocket with flap.



SHIRT SHORT-SLEEVE

Station wear
Part number: **03028 60030 001 + COLOUR NO.**
Garment weight: approx. 210 g

SHIRT LONG-SLEEVE

Station wear
Part number: **03028 60030 000 + COLOUR NO.**
Garment weight: approx. 260 g
Sleeve ends with cuff, slit and button closure.




Single-coloured • turn-down collar • front closure with buttons • shoulder with tunnel for badge • chest pocket with flap.

MATERIAL: 1 | 100 % RECYCLED POLYESTER · 2 | and 3 | 100 % COTTON (ORGANIC) ·
FABRIC WEIGHT: 1 | approx. 160 g/m² · 2 | and 3 | approx. 120 g/m²



Flammgard® NORDRHEIN-WESTFALEN

Our Flammgard® collection Nordrhein-Westfalen is made of a high-quality aramid-viscose blend and is used by the fire brigade in North Rhine-Westphalia. In addition to the blouson, various trouser models with and without leg pockets are available in ladies' and men's versions.

ITEM	COLOUR	COLOUR NO.	COLOUR NAME				REGULAR SIZES
1		488	black blue	EN ISO 11612 A1+A2/B1/C1	EN 1149-5	-	Men: 46-58, 23-29, 94-110 Ladies: 36-46, 18-23, 72-92
2						EN ISO 13688 HuPF 2* *only signed men's trousers	
FIELDS OF APPLICATION: Station wear for firemen Nordrhein-Westfalen							



Hook&loop tape
for name badge

Men



Covered hook&loop fastener
to regulate the sleeve hem
width

BLOUSON

Station wear FR
Part number: **01056 10149 018 488**
Garment weight: approx. 1,125 g

LADIES BLOUSON

Station wear FR
Part number: **01056 10168 006 488**
Garment weight: approx. 1,060 g

Single-coloured • shoulder tunnel for rank badge • collar with flap and hook&loop fastening • closure strip with zip and covered snap fasteners on both sides • 2 breast pockets with flaps and zips • righthand flap with hook&loop tape for name badge • left-hand pocket with loop and metal half ring • flap with "Feuerwehr" embroidery • 2 side pockets as welt pockets with zips • 1 Napoleon pocket • 2 inside pockets • adjustable cuff width with covered zip; right sleeve pocket with zip and 2 pen pockets • waistband elasticated on the side • back with side folds for freedom of movement • flame-retardant cotton lining.



Ladies



TROUSERS (HuPF PART 2)

Station wear FR

Part number: **01056 20106 007 488**

Garment weight: approx. 770 g

LADIES TROUSERS

Station wear FR

Part number: **01056 20117 004 488**

Garment weight: approx. 740 g

TROUSERS WITHOUT CARGO POCKET

Station wear FR

Part number: **01056 20106 008 488**

Garment weight: approx. 740 g

LADIES TROUSERS WITHOUT CARGO POCKET

Station wear FR

Part number: **01056 20117 005 488**

Garment weight: approx. 710 g

Single-coloured • waistband with hook fastening and side elastic band • 2 pleats at the front, 4 darts at the back • covered zip fastener • 2 wing pockets • 1 back pocket with flap and zip • 2 bellow pockets on the side seam with flaps and zips • adjustable elasticated hem • seat seam designed to be easy to modify.



ACCESSORIES

Accessories

Also available for North Rhine-Westfalia blouson:

Adapter for rank badge

Part number: **01056 70048 000 488**

Flap with hook&loop fastening.

Name badges

Black-stitched border • first and last name individually embroidered in red, silver or gold.



MATERIAL: 59 % ARAMIDE, 40 % VISCOSE FR, 1 % CARBON

FABRIC WEIGHT: approx. 260 g/m²



Flammgard® BADEN-WÜRTTEMBERG

Flammgard® Baden-Württemberg is used by the fire brigade in Baden-Württemberg and impresses with many details such as the opening in the upper left pocket flap of the jacket for the antenna of the radio; above it is a loop for an antenna microphone. The embroidery with the Staufer lion is also a must in this collection.

ITEM	COLOUR	COLOUR NO.	COLOUR NAME			REGULAR SIZES
1 ,2		2240	black blue/red	EN ISO 11612 A1+A2/B1/C1	EN 1149-5	Men: 46-58, 23-29, 94-110 Ladies: 36-46, 18-23, 72-92
FIELDS OF APPLICATION: Station wear for firemen Baden-Württemberg						



Men

BLOUSON

Station wear FR
Part number: **01056 10150 028 2240**
Garment weight: approx. 1,040 g

LADIES BLOUSON

Station wear FR
Part number: **01056 10163 024 2240**
Garment weight: approx. 1,000 g

Two-coloured • decorative red piping on front and back • shoulder tunnel for rank badge • loop for aerial microphone • collar with flap and button • front zipper with covered snap fasteners • 2 breast pockets with flaps and snap fastening • right-hand pocket with pen compartment and flap with hook&loop tape for name badge • left-hand flap with opening for radio antenna and "Staufer Löwe + Feuerwehr" embroidery • loop with metal half ring in the pocket • 2 side pockets as welt pockets with zips • 1 Napoleon pocket • 5 inside pockets in various designs • cuffs with gusset, adjustable cuff width thanks to covered snap fastener • hem band elasticated on the side • back with "FEUERWEHR" patch • flame-retardant cotton lining.



Ladies



2 |

Men



JACKET

Station wear FR

Part number: **01056 10159 012 2240**

Garment weight: approx. 1,060 g

LADIES JACKET

Station wear FR

Part number: **01056 10169 008 2240**

Garment weight: approx. 1,020 g

Two-coloured • decorative red piping on front and back • shoulder tunnel for rank badge • loop for aerial microphone • collar with flap and button • front zipper with snap fasteners covered on both sides • 2 breast pockets with flaps and snap fastening • right-hand pocket with pen compartment and hook& loop tape for name badge on the flap • left-hand flap with opening for radio antenna and "Staufer Löwe + Feuerwehr" embroidery • loop with metal half ring in the pocket • 2 side pockets as welt pockets with zip • 1 Napoleon pocket • 5 inside pockets in various designs • cuffs with gusset, adjustable via covered snap fastener • hem with drawstring • back with "FEUERWEHR" patch • flame-retardant lining.



Ladies






MATERIAL: 59 % ARAMIDE, 40 % VISCOSE FR, 1 % CARBON

FABRIC WEIGHT: approx. 260 g/m²



Flammgard® BADEN-WÜRTTEMBERG

For Baden-Württemberg, in addition to the men's and women's trousers, there is also a softshell jacket with black and, on request, red mesh lining as well as a fleece jacket for colder days. Both jackets are also intended for use as station wear for firemen.

ITEM	COLOUR	COLOUR NO.	COLOUR NAME				REGULAR SIZES
3		2240	black blue/red	EN ISO 11612 A1+A2/B1/C1	EN 1149-5	EN ISO 13688 HuPF 2	Men: 46-58, 23-29, 94-110 Ladies: 36-46, 18-23, 72-92
4		2046	black/red	-	-	-	46-58, 23-29, 94-110
5		2040	navy/red	-	-	-	S-2XL
FIELDS OF APPLICATION: Station wear for firemen Baden-Württemberg							

TROUSERS

Station wear FR
Part number: **01056 20103 018 2240**
Garment weight: approx. 690 g

LADIES TROUSERS

Station wear FR
Part number: **01056 20111 005 2240**
Garment weight: approx. 670 g

Two-coloured • waistband with hook&loop fastening and elasticated on the sides • 2 pleats on the front of the trousers • covered zip fastener • 2 wing pockets • 2 back pockets and 2 bellow pockets on the side seam – each with flaps and snap fasteners, red piping and “Staufer Löwe + Feuerwehr” embroidery • right-hand flap with opening for pen • crotch with flame-retardant cotton lining • seat seam designed to be easy to modify.



ACCESSORIES

Accessories

Also available for Baden-Württemberg blouson, jacket, softshell and fleece:

Adapter for rank badge

Part number: **01056 70048 000 488**
Flap with hook&loop fastening.

Name badges

Black-stitched border • first and last name individually embroidered in red, silver or gold.





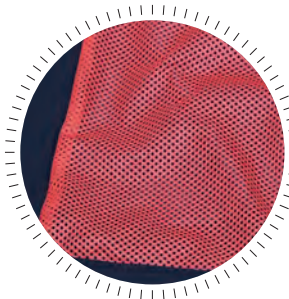
SOFTSHELLJACKET

Station wear

Part number: **11001 10161 010 2046**

Garment weight: approx. 1,070 g

Two-coloured • decorative piping on front and back • shoulder tunnel for rank badge • collar with flap and hook&loop fastener • front zipper with covered snap fasteners • 2 breast pockets with flaps and snap fasteners • right-hand pocket with pen compartment and flap with hook&loop tape for name badge – left-hand flap with "Staufer Löwe + Feuerwehr" embroidery • loop with metal half ring in the pocket • 2 side pockets as welt pockets with zips • 1 Napoleon pocket • 1 closable inside mobile phone pocket • adjustable cuff width thanks to covered snap fastener • back with "FEUERWEHR" patch.



Jacket also available with red mesh lining (Part number: **11001 10161 012 2046**)

Hook&loop fastener for name badge

Decorative piping on front and back



FLEECE JACKET

Station wear

Part number: **07001 10152 000 2040**

Garment weight: approx. 700 g

Two-coloured • decorative red piping on front and back • shoulder tunnel for rank badge • stand-up collar • fastener strip with zip and covered snap fasteners on both sides • 2 breast pockets with flaps and zips • right-hand flap with hook&loop tape for name badge • left-hand flap with "Staufer Löwe + Feuerwehr" embroidery • 2 side pockets as welt pockets • sleeves with inner knit cuffs and underarm reinforcement • hem with ribbed structure.



Hem with ribbed structure

MATERIAL: 3 | 59 % ARAMIDE, 40 % VISCOSE FR, 1 % CARBON • 4 | 94 % POLYESTER, 6 % ELASTANE • 5 | 100 % POLYESTER

FABRIC WEIGHT: 3 | approx. 260 g/m² • 4 | approx. 300 g/m² • 5 | approx. 260 g/m²



Flammgard® SAARLAND

All certified Flammgard® Saarland products are made of the proven aramid viscose fabric weighing only 260 g/m² and are equipped with practical hook & loop fasteners. The collection is characterised by product diversity: In addition to women's models, a fleece and a softshell jacket are also available.

ITEM	COLOUR	COLOUR NO.	COLOUR NO.			REGULAR SIZES
1 2		2240	black blue/red	EN ISO 11612 A1+A2/B1/C1	EN 1149-5	Men: 46-58, 23-29, 94-110 Ladies: 36-46, 18-23, 72-92
FIELDS OF APPLICATION: Station wear for firemen Saarland						



Men



BLOUSON

Station wear FR
Part number: **01056 10150 026 2240**
Garment weight: approx. 1,040 g

LADIES BLOUSON

Station wear FR
Part number: **01056 10163 022 2240**
Garment weight: approx. 1,000 g

Two-coloured • piping on front and back • shoulder tunnel for rank badge • loop for aerial microphone • collar with flap and hook&loop fastening • front zipper with snap fasteners covered on both sides • 2 breast pockets with flaps with hook&loop fastening • right-hand pocket with pen compartment and hook&loop tape for name badge on the flap • left-hand flap with opening for radio antenna and underlined "Feuerwehr" embroidery • loop with metal half ring in the pocket • 2 side pockets as welt pockets with zips • 1 Napoleon pocket • 5 inside pockets in various designs • cuffs with gusset, adjustable via covered snap fastener • hem elasticated on the side • back with "Feuerwehr" patch • flame-retardant lining.



Ladies



Men



JACKET

Station wear FR

Part number: **01056 10198 002 2240**

Garment weight: approx. 1,060 g

LADIES JACKET

Station wear FR

Part number: **01056 10169 006 2240**

Garment weight: approx. 1,020 g

Two-coloured • piping on front and back • shoulder tunnel for rank badge • loop for aerial microphone • collar with flap and hook&loop fastening • front zipper with snap fasteners covered on both sides • 2 breast pockets with flaps with hook&loop fastening • right-hand pocket with pen compartment and hook&loop tape for name badge on the flap • left-hand flap with opening for radio antenna and underlined "Feuerwehr" embroidery, loop with metal half ring in the pocket • 2 side pockets as welt pockets with zips • 1 Napoleon pocket • 5 inside pockets in various designs • cuffs with gusset, adjustable via covered snap fastener • hem with drawstring • back with "Feuerwehr" patch • flame-retardant lining.



Ladies






MATERIAL: 59 % ARAMIDE, 40 % VISCOSE FR, 1 % CARBON

FABRIC WEIGHT: approx. 260 g/m²



Flammgard® SAARLAND

The Flammgard® Saarland collection is characterised by a high product diversity and also includes, among other things, men's trousers according to VWV as well as women's models, fleece and softshell jackets. The trousers are made with high-quality fabrics and yarns from NOMEX® and Lenzing.

ITEM	COLOUR	COLOUR NO.	COLOUR NAME				REGULAR SIZES
3		2240	black blue/red	EN ISO 11612 A1+A2/B1/C1	EN 1149-5	EN ISO 13688 HuPF 2* *only signed men's trousers	Men: 46-58, 23-29, 94-110 Ladies: 36-46, 18-23, 72-92
4		2046	black/red	-	-	-	46-58, 23-29, 94-110
5		2040	navy/red	-	-	-	S-2XL
FIELDS OF APPLICATION: Station wear for firemen Saarland							

TROUSERS

Station wear FR
Part number: **01056 20103 016 2240**
Garment weight: approx. 690 g

LADIES TROUSERS

Station wear FR
Part number: **01056 20137 001 2240**
Garment weight: approx. 670 g

TROUSERS ACC. TO VWV (HuPF PART 2)

Station wear FR
Part number: **01056 20110 002 2240**
Garment weight: approx. 710 g

Two-coloured • waistband with hook fastening and elasticated on both sides • 2 pleats at the front of the trousers • covered zip • 2 side pockets • 2 recessed back pockets with flap and hook&loop fastening • 2 bellow pockets on the side seam with flaps and hook&loop fastening, flaps with red trim and underlined "FEUERWEHR" embroidery • right-hand flap with opening for pen • lined crotch • seat seam designed to be easy to modify.



Also available with two side welt pockets with covered zips acc. to VWV

3



ACCESSORIES

Accessories

Also available for Saarland blouson, jacket, softshell and fleece:

Adapter for rank badge

Part number: **01056 70048 000 488**
Flap with hook&loop fastening.

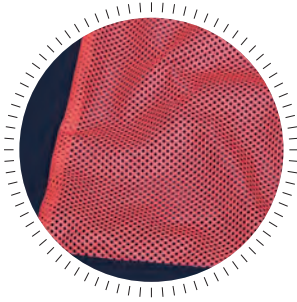
Name badges

Black-stitched border • first and last name individually embroidered in red, silver or gold.





Jacket also available with red mesh lining (Part number: **11001 10161 013 2046**)



SOFTSHELLJACKET

Station wear

Part number: **11001 10161 011 2046**

Garment weight: approx. 1,070 g

Two-coloured • decorative red piping on front and back • shoulder tunnel for rank badge • collar with flap and hook&loop fastening • front zipper with covered snap fastener • 2 breast pockets with flap and snap fastener • right-hand pocket with pen compartment and hook&loop tape for name badge on the flap • left-hand flap with "FEUERWEHR" underlined embroidery • loop with metal half ring in the pocket • 2 side pockets as welt pockets with zips • 1 Napoleon pocket • 1 closable inside mobile phone pocket • sleeves with adjustable wristbands via covered snap fastener • back with "FEUERWEHR" patch.

Decorative piping on front and back

Hook&loop tape for name badge 4 |



FLEECE JACKET

Station wear

Part number: **07001 10152 001 2040**

Garment weight: approx. 700 g

Two-coloured • decorative red piping on front and back • shoulder tunnel for rank badge • stand-up collar with zip fastening • front zipper with snap fastener covered on both sides • 2 breast pockets with flaps and hook&loop fastening • right-hand flap with hook&loop tape for name badge • left-hand flap with underlined "FEUERWEHR" embroidery • 2 side pockets as welt pockets • sleeves with inner knit cuffs and underarm reinforcement • hem with ribbed structure.

5 |



Hem with ribbed structure

MATERIAL: 3 | 59 % ARAMIDE, 40 % VISCOSE FR, 1 % CARBON • 4 | 94 % POLYESTER, 6 % ELASTANE •

5 | 100 % POLYESTER •

FABRIC WEIGHT: 3 | approx. 260 g/m² • 4 | approx. 300 g/m² • 5 | approx. 260 g/m²



Flammgard® BAYERN

Day shift duty made easy: The material of our Flammgard® Bayern collection is particularly light and soft and can be worn very comfortably even over longer periods of use. Movement-friendly parts such as elastic knit inserts and shaped knees provide physical relief. Red details add visual accents and make the Bayern collection a real eye-catcher.

ITEM	COLOUR	COLOUR NO.	COLOUR NAME	REGULAR SIZES
1		2120	dark navy/red	Men: 46-58, 23-29, 94-110 Ladies: 36-46, 18-23, 72-92
2		458	dark navy	

FIELDS OF APPLICATION: Station wear for firemen Bayern



BLOUSON

Station wear

Part number: **04104 10218 000 2120**

Garment weight: approx. 790 g

LADIES BLOUSON

Station wear

Part number: **04104 10217 000 2120**

Garment weight: approx. 770 g

Two-coloured • shoulder tunnel for rank badge • loop fastener for name badges on the right front • undercollar and inner collar band in contrasting colour red • front closure with zipper • 2 breast pockets with flaps and hook&loop fastening • left pocket with pen compartment • ladies model with darts at chest height • 2 side pockets as welt pockets with zip • 2 inner pockets with zip and red pipe • mobile phone pocket inside on the right • cuffs with elastic knit insert • hem cuff with elastic knit • completely lined • label inside on the back for barcode or name patches.

ACCESSORIES

Accessories

Adapter for rank badge

Part number: **04104 70044 002 458**

Flap with hook&loop fastening.

Name badges

Black-stitched border • first and last name individually embroidered in red, silver or gold.



Hook&loop fastener for name badge



TROUSERS

Station wear

Part number: **04104 20155 000 458**

Garment weight: approx. 620 g

LADIES TROUSERS

Station wear

Part number: **04104 20154 000 458**

Garment weight: approx. 610 g

Two-colored • waistband with patent button closure and elastic band on both sides • covered zip-fly • saddle made of elastic fabric • 2 wing pockets • 2 back pockets • 2 integrated leg pockets, each with a piped pocket and zipper • ergonomic knee section.



2 integrated leg pockets, each with a piped pocket and zipper






MATERIAL: 63 % POLYESTER, 33 % COTTON, 4 % ELASTOLEFIN

FABRIC WEIGHT: approx. 245 g/m²



HB-TECHNICAL RESCUE

The all-rounder for technical assistance: The light and robust fabric protects against heat and flames and fulfils the high-visibility vest exemption according to DGUV. The parka additionally is virus- and bacteria-proof, protects against rain and keeps you warm on colder days with the zip-in fleece jacket. All pockets have practical hook&loop fastenings and the elbows and knees have additional reinforcements.

ITEM	COLOUR	COLOUR NO.	COLOUR NAME			REGULAR SIZES
1		3271	dark blue/ fluorescent yellow/ black	EN ISO 11612 A1+A2/B1/C1	EN 343 4 4 X (excl. Fleecejacket) EN 343 4 3 X (incl. Fleecejacket)	46-58, 23-29, 94-110
2		2395	black blue/black			
3		2047	black/navy	-	-	
FIELDS OF APPLICATION: Technical assistance						



PARKA

Technical assistance FR
Part number: **01280 19005 001 3271**
Garment weight: approx. 1,300g

Single-coloured • segmented reflective stripes • stand-up collar with flap and hook&loop fastening • covered front zipper with covered hook&loop fastening • hook&loop tape on the front and on the back to attach the additional collar • 2 added breast pockets for radio devices with covered hook&loop fastening • opening for the antenna on the right with two radio attachment hooks • 1 inside pocket on the right • 2 sidepockets with flap and covered hook&loop fastening • 2 movement pleats on the back • ergonomically formed sleeves with elbow reinforcement • sleeve hem with strap for adjustment with hook&loop fastening • sleeve hem with cuff and thumb loop • jacket and trouser in combination fulfills DGUV 205-20 Information • virus and bacteria-proof due to laminate according to ISO 16603 and ISO 16604 • no high-visibility protective clothing acc. to EN ISO 20471 and EN 17353 • zippers to zip in a fleece jacket.



TROUSERS

Technical assistance FR

Part number: **01056 20147 000 2395**

Garment weight: approx. 810g

Single-coloured • segmented reflective stripes • detachable braces • waistband with hook fastening • covered zip fly • elasticated waist in the side • 2 slant pockets, 1 hip pockets, 2 below pockets on side seam – each with flap and hook&loop fastening • 2 inside knee pockets • reinforcement material on knee and hem • hem with elastic • no high-visibility protective clothing acc. to EN ISO 20471 and EN 17353.



FLEECE JACKET

Technical assistance FR

Part number: **07015 19006 000 2047**

Garment weight: approx. 700g

Two-coloured • high stand-up collar • inner collar made of Nomex® • zip for closing as well as for zipping into our HB-Technical Rescue Parka • loops at the sleeve hem for fixing in the jacket • sleeve cuffs with elastic band • material certified according to EN ISO 11612 A1/B1/C2/F1.



MATERIAL: 1 | 98 % ARAMIDE, 2 % CARBON · 2 | 59 % ARAMIDE, 40 % VISCOSE FR, 1 % CARBON ·

3 | 48 % MODACRYLIC, 32 % COTTON, 18 % POLYESTER, 2 % CARBON ·

FABRIC WEIGHT: 1 | approx. 195 g/m² · 2 | approx. 260 g/m² · 3 | approx. 260 g/m²

HB-TECHNICAL RESCUE LITE

A real classic in the field of technical assistance: our suit made of hard-wearing and flame-retardant fabric with DGUV-compliant reflective striping in combination of jacket and trousers. Back labels can be attached to wide fleece strips on the upper back.

ITEM	COLOUR	COLOUR NO.	COLOUR NAME			REGULAR SIZES
1		48	dark blue	EN ISO 11612 A1+A2/B1/C1	-	46-58, 23-29, 94-110
2				EN ISO 13688 HuPF 2		

FIELDS OF APPLICATION: Technical assistance



Yoke partition
on front and back

Pocket flap with loop
for name badge

DGUV-compliant
reflective stripes



Back with hook&loop
tape for badge

JACKET

Technical assistance FR

Part number: **01041 10162 001 48**

Garment weight: approx. 1,100 g

Single-coloured • with reflective stripes • yoke partition on front and back • collar with flap and hook&loop fastening • front zipper with snap fastener covered on both sides • 2 breast pockets with flaps and hook&loop fastening • right-hand pocket flap with hook&loop tape for name badge • left-hand flap with additional pocket opening under the flap • loop with metal half ring in the pocket • 2 side patch pockets with flaps • 2 inside pockets in various designs • cuffs with gusset, adjustable via covered hook&loop fastening • hem with drawstring • back with hook&loop tape for badge • sleeves with reinforced elbows • no high-visibility protective clothing acc. to EN ISO 20471 and EN 17353 • flame-retardant lining.



TROUSERS

Technical assistance FR

Part number: **01041 20086 006 48**

Garment weight: approx. 740 g

Single-coloured • with reflective stripes • waistband with hook&loop fastening • 2 pleats on the front of the trousers, 4 darts on the back • with front and crotch lining • zip covered on one side • 2 side pockets • 1 back pocket with flap and hook&loop fastening • 2 bellow pockets on the side seam with flaps and hook&loop fastening • adjustable elasticated hem • seat seam designed to be easy to modify • no high-visibility protective clothing acc. to EN ISO 20471 and EN 17353.

MATERIAL: 49 % ARAMIDE, 50 % VISCOSE FR, 1 % CARBON

FABRIC WEIGHT: approx. 300 g/m²

HB-WILDFIRE® 2.0

HB-WILDFIRE® 2.0 has been specially developed to meet the increasing demands placed on emergency services. A safe and comfortable outfit that protects against flames and relieves physical strain, e.g. thanks to the inner lining with hydrophilic finish and lightweight, hard-wearing outer material that can withstand many washes.

ITEM	COLOUR	COLOUR NO.	COLOUR NAME			REGULAR SIZES
1		3390	red/dark blue/black	EN ISO 11612 A1+A2/B1/ C1/F1	EN 15384	46-58, 23-29, 94-110
		3393	dark blue/dark blue/ black			
		3394	gold/gold/black			
FIELDS OF APPLICATION: Fire fighting in wide areas, Technical Assistance						



Elbow reinforcement with silicone-coated trim

Segmented reflective stripes



Stand-up collar with flap and snap fastener

Inserted walkie-talkie pockets



Hook&loop strips for back collar covered with outer material

Opening for antenna/hook straps for radio attachment

Inner lining with hydrophilic features: absorbs moisture, releases it in the form of evaporative cooling -> the wearer does not sweat as quickly

JACKET

Wildland firefighting
Part number: **01284 10196 003 + COLOUR NO.**
Garment weight: approx. 1,200g

Three-coloured • with segmented yellow/silver/yellow reflective stripes • no high-visibility clothing according to EN ISO 20471 and EN 17353 • stand-up collar with flap and snap fastener • fastening strip with zip and covered snap fastener • covered hook&loop strips on front and back for fastening the overcoat back collar • front part lined • elbow reinforcement with silicone-coated trim • 2 set-in radio pockets on the chest with flaps and covered hook&loop fastener; right with opening for the antenna and 2 hook straps for attaching the radio • 1 inside pocket on the right; 1 Napoleon pocket on the left • 2 set-in side pockets with flap and covered hook&loop fastener • back section with 2 movement pleats • ergonomically shaped sleeves with adjustable hem width.

MATERIAL: 49.5 % VISCOSE FR, 49.5 % ARAMID, 1 % CARBON

FABRIC WEIGHT: approx. 230 g/m²



ITEM	COLOUR	COLOUR NO.	COLOUR NAME	THREE REGULAR SIZES
2		10	white	40–48: for jackets sz. 40–48; 86–98; 20–24 50–58: for jackets sz. 50–58; 102–118; 25–29 60–70: for jackets sz. 60–70; 122–142; 30–35
		17	yellow	
		25	red	
		41	royal	

FIELDS OF APPLICATION: Fire fighting in wide areas, Technical Assistance



IDENTIFICATION COLLAR

Wildland firefighting

Part number: **01266 70049 001 + COLOUR NO.**

Optional label collar complementing the jacket in order to indicate the function • available in several colours for different functions • attached via hook&loop tape on the front and on the back of the jacket.

Back with red
identification collar



2 |



MATERIAL: 54 % MODACRYLIC, 45 % LYOCCELL, 1 % CARBON

FABRIC WEIGHT: approx. 320 g/m²

HB-WILDFIRE® 2.0

The elaborate manufacture of HB-Wildfire® 2.0 with special moulded seams and segmented reflective strips ensures freedom of movement. Particularly exposed areas are reinforced with a silicone-carbon trim and all pockets have hook&loop fasteners. Button-on braces provide additional comfort. Jackets and trousers are also available in long and short sizes.

ITEM	COLOUR	COLOUR NO.	COLOUR NAME			REGULAR SIZES
3		2197	red/black	EN ISO 11612 A1+A2/B1/C1	EN 15384	46-58, 23-29, 94-110
		2395	black blue/black			
		2414	gold/black			
FIELDS OF APPLICATION: Fire fighting in wide areas, Technical Assistance						

3 |



Segmented reflective stripes

Silicone-coated hem protector

Knee reinforcement with silicone-coated trim



Waist adjustment with elastic band

Hem with adjustable elastic



The perceptibility acc. to EN 15384 is given when jacket and trousers are worn together. The values prescribed in the standard correspond to the requirements of DGUV 205-020.

TROUSERS

Wildland firefighting

Part number: **01284 20152 000 + COLOUR NO.**

Garment weight: approx. 870 g

Two-coloured • with segmented yellow/silver/yellow reflective stripes • no high-visibility clothing according to EN ISO 20471 and EN 17353 • buttons in the waistband for attaching braces • waist adjustment by elastic band on the sides • covered zip • 2 wing pockets • silicone coated knee reinforcement and hem protection • inner leg reinforcement • 1 hip pocket • 2 bellow pockets on side seam each with flap and hook&loop • 2 outside knee pockets • hem with adjustable snap fastener flap.

MATERIAL: 49.5 % MODACRYLIC, 49.5 % COTTON, 1 % CARBON

FABRIC WEIGHT: approx. 230 g/m²



ITEM	COLOUR	COLOUR NO.	COLOUR NAME	REGULAR SIZES
4		25	red	One size
		488	black blue	
		68	gold	
FIELDS OF APPLICATION: Fire fighting in wide areas, Technical Assistance				



With the braces
the trousers can be turned
into bib and brace trousers in
no time at all



BRACES

Wildland firefighting

Part number: **01284 70064 001 + COLOUR NO.**

Single-coloured • adjustable buckles to adjust
length • elasticated back • buttonholes to
attach to trousers.




MATERIAL: 49.5 % MODACRYLIC, 49.5 % COTTON, 1 % CARBON

FABRIC WEIGHT: approx. 230 g/m²



Model: Greta, Quality and sustainability management
Collection: HABETEX® ESD Comfort and CONDUCTEX®





ESD ELECTROSTATIC DISCHARGE

NO MATTER WHAT ELECTRIFIES YOU: YOUR OUTFIT REMAINS UNAFFECTED

Not everyone has
the ability to let environmental voltages roll off them.
Our high-quality ESD clothing does: it offers reliable conductivity and prevents
sensitive product parts in electronics production from being damaged
by electrostatic discharge. Very reassuring: each of our products
has to pass extensive tests
to become part of our unrivalled ESD range.

▶ CONDUCTEX® Green Turtle

Bestseller for environmental protection: our successful CONDUCTEX® coats without side seams are now also available in recycled and organically grown material. The tried and tested fabric blend now also scores with sustainability – and remains as light, comfortable and high-functional as usual. All closing seams are double-bound. Fabric with “breathability” quality label from the Hohenstein testing institute.

ITEM			REGULAR SIZES
1 2	10 ⁶ bis 10 ⁷ Ø acc. to EN 61340-5-1 (IEC 61340-5-1)	Breathability	Men: S–2XL Ladies: XS–L
FIELDS OF APPLICATION: Semiconductor and telecommunications industry, aerospace industry, automotive industry, electronics manufacturing			



Attached side pockets with slanted opening

Sleeve hem adjustable via snap fasteners

Front with one-sided covered snap fasteners



LADIES COAT, LONG SLEEVE

ESD

Part number: **08100 48019 000 10**

Garment weight: approx. 320 g

COAT, LONG SLEEVE

ESD

Part number: **08100 48011 000 10**

Garment weight: approx. 330 g

Single-coloured • cut without side seams • lapel collar • front with one-sided covered snap fasteners • 1 attached front pocket on the left • 2 attached side pockets with slanted openings • 2 front tucks on ladies' coat • sleeve hem adjustable via snap fasteners • embroidered EPA emblem on right upper arm.

☐ white

GRS – Global Recycled Standard



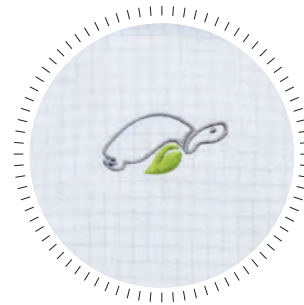
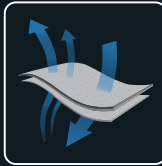
The polyester content of these coats is developed from recycled PET bottles which have been collected in Europe and is GRS certified. The production of the rPET yarn requires 60% less energy and avoids 2.4 kg of waste per kg of yarn.

GRS is an international, voluntary and full product standard and defines requirements for the certification of recycled materials in terms of chain of custody, social and environmental practices and chemical restrictions.

Organic Blended Content Standard



The cotton of these products is proportionally used from organically grown cotton according to OCS Blended. Organic Blended Content Standard enables independent assessment, verification and traceability of the exact organic fibre content in the product.



LADIES COAT, SHORT SLEEVE

ESD

Part number: **08100 48019 005 10**

Garment weight: approx. 275g

COAT, SHORT SLEEVE

ESD

Part number: **08100 48011 011 10**

Garment weight: approx. 285g

Single-coloured • cut without side seams • lapel collar • front with one-sided covered snap fasteners • 1 attached front pocket on the left • 2 attached side pockets with slanted openings • 2 front tucks on ladies' coat • hemmed short-sleeve • embroidered EPA emblem on right upper arm.

☐ white


MATERIAL: 75 % POLYESTER, 23 % COTTON, 2 % CARBON; rec. PES/ Bio CO

FABRIC WEIGHT: approx. 130g/m²

CONDUCTEX

▶ CONDUCTEX® Cotton Knit Green Turtle

We are also adding sustainable products to our successful CONDUCTEX® Cotton Knit collection: the T-shirts and polo shirts for men and women in the trend colour black are made from organically grown cotton. The environmentally friendly material is very light and comfortable and impresses with its consistently high quality and dissipative properties.

ITEM		REGULAR SIZES
1 - 4	10 ⁴ bis 10 ⁷ Ω acc. to EN 61340-5-1 (IEC 61340-5-1)	Men: S-2XL Ladies: XS-L
FIELDS OF APPLICATION: Semiconductor and telecommunications industry, aerospace industry, automotive industry, electronics manufacturing		



T-SHIRT, SHORT SLEEVE

ESD

Part number: **08023 86002 016 46**

Garment weight: approx. 200 g

Single-coloured • comfortable neck width • modern shirt length, suitable for wearing over the shirt • EPA emblem on right upper arm.

 black



LADIES T-SHIRT, SHORT SLEEVE

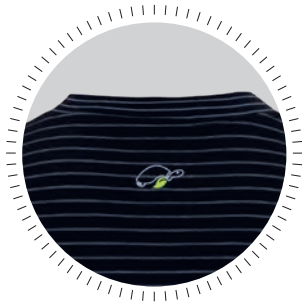
ESD

Part number: **08023 86002 016 46**

Garment weight: approx. 160 g

Single-coloured • tailored cut • modern shirt length, suitable for wearing on top • EPA emblem on right upper arm.

 black



Embroidered Green Turtle on the back

Conductive polo collar

Improved sleeve fit

3 |



4 |



Ladies' polo shirts tailored cut

POLOSHIRT, SHORT SLEEVE

ESD

Part number: **08023 86004 037 46**

Garment weight: approx. 240 g

Single-coloured • conductive polo collar • polo placket with button fastening • left chest pocket with button fastening • modern shirt length, suitable for wearing on top • EPA emblem on right upper arm.

■ black

LADIES POLOSHIRT, SHORT SLEEVE

ESD

Part number: **08023 86044 003 46**

Garment weight: approx. 200 g

Single-coloured • tailored cut • conductive polo collar • polo placket with button fastening • left chest pocket with button fastening • doubled sleeve cuffs • modern shirt length, suitable for wearing on top • EPA emblem on right upper arm.

■ black

MATERIAL: 95 % COTTON (ORGANIC), 5 % CARBON

FABRIC WEIGHT: approx. 160 g/m²

CONDUCTEX[®]

CONDUCTEX® is one of the lightest and most comfortable materials for protection of products against electrostatic discharge. Furthermore, the blended fabric offers a good functionality and high wearing comfort. The closure seams are additionally edged. Fabric with the quality label "breathability" of the Hohenstein certification institute.

ITEM			REGULAR SIZES
1 - 5	10 ⁶ bis 10 ⁷ Ω acc. to EN 61340-5-1 (IEC 61340-5-1)	Breathability	Men: S-2XL Ladies: XS-L
FIELDS OF APPLICATION: Semiconductor and telecommunications industry, aerospace industry, automotive industry, electronics manufacturing			

LADIES COAT, SHORT SLEEVE

ESD

Part number: **08005 48027 000 10**

Garment weight: approx. 335 g

Single-coloured • female cut • lapel collar • front with one-sided covered snap fasteners • 2 side pockets with slanted openings • embroidered EPA emblem on right upper arm.

☐ white



LADIES COAT, LONG SLEEVE

ESD

Part number: **08005 48028 000 10**

Garment weight: approx. 360 g

Single-coloured • female cut • lapel collar • front with one-sided covered snap fasteners • 2 side pockets with slanted openings • sleeve hem adjustable via snap fasteners • embroidered EPA emblem on right upper arm.

☐ white



COAT, WITH KNITTED CUFFS

ESD

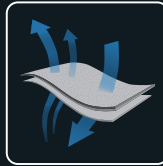
Part number: **08005 48011 040 10**

Garment weight: approx. 350 g

Single-coloured • cut without side seams • lapel collar • fastener strip with covered snap fasteners • 1 breast pocket attached on left • 2 side pockets with slanted openings • sleeves with stretchable knitted cuffs • embroidered EPA emblem on right upper arm.

☐ white





LADIES COAT, SHORT SLEEVE

ESD

Part number: **08005 48019 005 10**

Garment weight: approx. 275 g

COAT, SHORT SLEEVE

ESD

Part number: **08005 48011 011 10**

Garment weight: approx. 285 g

Single-coloured • cut without side seams • lapel collar • front with one-sided covered snap fasteners • 1 attached front pocket on the left • 2 attached side pockets with slanted openings • 2 front tucks on ladies' coat • hemmed short-sleeve • embroidered EPA emblem on right upper arm.

☐ white



LADIES COAT, LONG SLEEVE

ESD

Part number: **08005 48019 000 + COLOUR NO.**

Garment weight: approx. 320 g

COAT, LONG SLEEVE

ESD

Part number: **08005 48011 000 + COLOUR NO.**

Garment weight: approx. 330 g

Single-coloured • cut without side seams • lapel collar • front with one-sided covered snap fasteners • 1 attached front pocket on the left • 2 attached side pockets with slanted openings • 2 front tucks on ladies' coat • sleeve hem adjustable via snap fasteners • embroidered EPA emblem on right upper arm.

☐ 10 white
☒ 41 royal
☒ 45 navy
☒ 46 black

☐ 50 silver grey
☐ 471 pastel blue
☐ 58 anthracite





MATERIAL: 75 % POLYESTER, 23 % COTTON, 2 % CARBON

FABRIC WEIGHT: approx. 130 g/m²

CONDUCTEX

CONDUCTEX® is one of the lightest and most comfortable materials for protection of products against electrostatic discharge. Furthermore, the blended fabric offers a good functionality and high wearing comfort. The closure seams are additionally edged. Fabric with the quality label "breathability" of the Hohenstein certification institute.

ITEM			REGULAR SIZES
1 2	10° bis 10° 0 acc. to EN 61340-5-1 (IEC 61340-5-1)	Breathability	46-58 & 94-110
FIELDS OF APPLICATION: Semiconductor and telecommunications industry, aerospace industry, automotive industry, warehouse work within electronics manufacturing			



BLOUSON

ESD

Part number: **08005 18006 000 + COLOUR NO.**

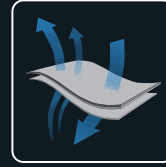
Garment weight: approx. 380g

Single-coloured • stand-up collar with slanted corner and covered snap fastener • front with covered snap fastening • 1 straight cut pocket on the left front • 2 side pockets with zipper • ergonomic sleeves • sleeve hem adjustable via snap fastener • leasing label on the inside in the back • embroidered EPA emblem.

- 41** royal
- 45** navy



Adjustable
waistband



ESD
ELECTRO-
STATIC
DISCHARGE



2 |



2 |



TROUSERS

ESD

Part number: **08005 28007 000 + COLOUR NO.**

Garment weight: approx. 290 g

Single-coloured • attached waistband with covered button fastening • slit detail with plastic fastening • adjustable elastic band in the back with button • 2 wing pockets • 2 back pockets without flap and fastening • 1 thigh pocket on the right with flap and covered snap fastening • embroidered EPA emblem.

- 41** royal
- 45** navy


MATERIAL: 75 % POLYESTER, 23 % COTTON, 2 % CARBON

FABRIC WEIGHT: approx. 130 g/m²

CONDUCTEX

▶ CONDUCTEX® Cotton Knit

High Functionality – High Comfort: T-Shirts and Polo shirts made of CONDUCTEX® Cotton Knit offer high wearing comfort as they are knitted, not woven. This design allows for very high mobility. Furthermore, the materials are characterised by very good functionality thanks to its carbon file. Available in numerous colours and womens' shirts with female cut.

ITEM		REGULAR SIZES
1 – 3	10° bis 10° 0 acc. to EN 61340-5-1 (IEC 61340-5-1)	S–2XL
FIELDS OF APPLICATION: Semiconductor and telecommunications industry, aerospace industry, automotive industry, electronics manufacturing		



T-SHIRT, SHORT SLEEVE

ESD

Part number:

08010 86002 000 + COLOUR NO.

Garment weight: approx. 180 g

Single-coloured • comfortable neck width • stylish shirt length, suitable for wearing on top • embroidered EPA emblem on right upper arm.

- **41** royal
- **45** navy
- **46** black
- **50** silver grey

POLO SHIRT, SHORT-SLEEVE

ESD

Part number:

08011 86004 002 + COLOUR NO.

Garment weight: approx. 210 g

Single-coloured • conductive polo collar • polo placket with buttoning • front pocket on the left with button • double-stitched sleeve opening • stylish shirt length, suitable for wearing on top • embroidered EPA emblem on right upper arm.

- **10** white
- **50** silver grey
- **45** navy
- **46** black

More colours available on request.

ESD
ELECTRO-
STATIC
DISCHARGE



POLO SHIRT, SHORT-SLEEVE

ESD

Part number:

08011 86004 000 + COLOUR NO.

Garment weight: approx. 220 g

Two-coloured • conductive polo collar • polo placket with buttoning • front pocket on the left with button • double-stitched sleeve opening • stylish shirt length, suitable for wearing on top • embroidered EPA emblem on right upper arm.

	2031	royal/silver grey
	2042	navy/silver grey
	2186	black/silver grey
	2061	silver grey/red
	2064	silver grey/navy

More colours available on request.



1, 2 and 3 |
EPA emblem on
right upper arm


MATERIAL: 95 % COTTON, 5 % CARBON

FABRIC WEIGHT: approx. 160 g/m²

CONDUCTEX[®]

▶ CONDUCTEX® Cotton Knit

High Functionality – High Comfort: Polo shirts made of CONDUCTEX® Cotton Knit offer high wearing comfort as they are knitted, not woven. This design allows for very high mobility. Furthermore, the materials are characterised by very good functionality thanks to its carbon file. Available in numerous colours and womens' shirts with female cut.

ITEM		REGULAR SIZES
1 - 3	10 ⁴ bis 10 ⁷ Ω acc. to EN 61340-5-1 (IEC 61340-5-1)	Men: S-2XL Ladies: XS-L

FIELDS OF APPLICATION: Semiconductor and telecommunications industry, aerospace industry, automotive industry, electronics manufacturing



2 | Now available
in black



1 |



2 |

Women's shirts
with fitted waist


LADIES POLO SHIRT, SHORT-SLEEVE


ESD

Part number: **08011 86013 000 + COLOUR NO.**

Garment weight: approx. 180 g

Two-coloured • female cut • conductive polo collar • polo placket with buttoning • front pocket on the left with button • double-stitched sleeve opening • stylish shirt length, suitable for wearing on top • embroidered EPA emblem on right upper arm.

 **2031** royal/silver grey

 **2186** black/silver grey

More colours available on request.

LADIES POLO SHIRT, SHORT-SLEEVE


ESD

Part number: **08011 86013 001 + COLOUR NO.**

Garment weight: approx. 175 g

Single-coloured • female cut • conductive polo collar • polo placket with buttoning • front pocket on the left with button • double-stitched sleeve opening • stylish shirt length, suitable for wearing on top • embroidered EPA emblem on right upper arm.

 **10** white

 **50** silver grey

 **45** navy

 **46** black

More colours available on request.



3 |

POLO SHIRT, LONG-SLEEVE

ESD

Part number: **08011 86008 000 + COLOUR NO.**

Garment weight: approx. 255 g

Two-coloured • conductive polo collar in contrast colour • polo placket with buttoning • front pocket on the left with button • sleeve opening in contrast colour • stylish shirt length, suitable for wearing on top • embroidered EPA emblem on right upper arm.

	2031	royal/silver grey
	2042	navy/silver grey
	2064	silver grey/navy

2 and 3 |

Collar and sleeve opening
manufactured in contrast colour




MATERIAL: 95 % COTTON, 5 % CARBON

FABRIC WEIGHT: approx. 160 g/m²

CONDUCTEX[®]

▶ CONDUCTEX® Cotton Knit

Sweatshirt and sweat jacket offer excellent wearing comfort, high-end manufacture and very good ESD functionality. The material is soft and smooth. As it is knitted, not woven, it fits very well and leaves you much freedom of movement.

ITEM		REGULAR SIZES
1 2	10° bis 10° Ω acc. to EN 61340-5-1 (IEC 61340-5-1)	Unisex S–2XL
FIELDS OF APPLICATION: Semiconductor and telecommunications industry, aerospace industry, automotive industry, electronics manufacturing		




SWEATSHIRT

ESD

Part number: **08014 86019 000 + COLOUR NO.**

Garment weight: approx. 440 g

Single-coloured • comfortable round neck with conductive collar • comfortable sleeve hems • embroidered EPA emblem on right upper arm.

-  **50** silver grey
-  **10** white
-  **46** black



SWEAT JACKET

ESD

Part number: **08014 86012 001 + COLOUR NO.**

Garment weight: approx. 520 g

-  **50** silver grey
-  **46** black

Part number: **08014 86012 000 2064**

Garment weight: approx. 520 g

  silver grey/navy

More colours available on request.

Collar, sleeve hems and waistband in contrast colour.

Single-coloured or two-coloured • very smooth and comfortable conductive sweat collar • front with zip fastener • 2 laterally attached pockets • stylish length • comfortable sleeve hems • embroidered EPA emblem on right upper arm.

Conductive sweat collar



MATERIAL: 95 % COTTON, 5 % CARBON

FABRIC WEIGHT: approx. 300 g/m²


CONDUCTEX®

▶ CONDUCTEX® Pro Knit

This cotton blend fabric is exceptionally soft with a maximum of wearing comfort. The knit (not woven) material provides optimum fit. It offers a high level of functionality and excellent conductivity levels. Thanks to the polyester amount it is very colorfast.

ESD
ELECTRO-
STATIC
DISCHARGE



ITEM		REGULAR SIZES
1 , 2	10 ⁴ bis 10 ⁷ Ω acc. to EN 61340-5-1 (IEC 61340-5-1)	S-2XL
FIELDS OF APPLICATION: Semiconductor and telecommunications industry, aerospace industry, automotive industry, electronics manufacturing		




POLO SHIRT, SHORT-SLEEVE

ESD

Part number: **08012 86004 002 + COLOUR NO.**

Garment weight: approx. 235 g

Single-coloured • conductive polo collar • polo placket with buttoning • front pocket on the left with buttoning • stylish shirt length, suitable for wearing on top • EPA emblem on right upper arm.

-  **45** navy
-  **46** black
-  **50** silver grey

More colours available on request.



Conductive polo collar

POLO SHIRT, SHORT-SLEEVE

ESD

Part number: **08012 86004 000 + COLOUR NO.**

Garment weight: approx. 235 g

Two-coloured • conductive polo collar in contrast colour • polo placket with buttoning • front pocket on the left with button • double-stitched sleeve opening in contrast colour • stylish shirt length, suitable for wearing on top • EPA emblem on right upper arm.

-  **2031** royal/silver grey
-  **2064** silver grey/navy

More colours available on request.




MATERIAL: 48 % COTTON, 48 % POLYESTER, 4 % CARBON

FABRIC WEIGHT: approx. 170 g/m²

CONDUCTEX®

▶ CONDUCTEX® Pro Knit

This cotton blend fabric is exceptionally soft with a maximum of wearing comfort. The knit (not woven) material provides optimum fit. It offers a high level of functionality and excellent conductivity levels. Thanks to the polyester amount it is very colorfast. Complete your outfit with our new gloves.

ITEM		REGULAR SIZES
1	10 ⁴ bis 10 ⁵ Ω acc. to EN 61340-5-1 (IEC 61340-5-1)	Unisex S-2XL
FIELDS OF APPLICATION: Semiconductor and telecommunications industry, aerospace industry, automotive industry, electronics manufacturing		

For best possible protection while manufacturing electronic parts, CONDUCTEX® thread is entwined of two high quality carbon fibres.



EPA emblem
on right upper arm



1 |



SWEAT JACKET

ESD

Part number: **08016 86012 005 + COLOUR NO.**

Garment weight: approx. 550 g

Single-coloured • very smooth and comfortable
conductive sweat collar • front with zip fastener •
2 laterally attached pockets • stylish length •
comfortable sleeve hems • EPA emblem on right
upper arm.

-  **46** black
-  **45** navy

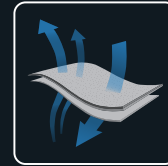
MATERIAL: 60 % POLYESTER, 33 % COTTON, 7 % CARBON




FABRIC WEIGHT: approx. 305 g/m²

CONDUCTEX®

Naptex® 4.0

Naptex® 4.0 offers reliable protection for electronic components when high surface resistance is required. The material developed by HB is suitable for industrial washing and certified with the Pro Label, withstands many washes and has a very long service life. With Hohenstein breathability label.



ITEM				REGULAR SIZES
1	10 ⁵ bis 10 ⁶ Ω acc. to EN 61340-5-1 (IEC 61340-5-1)	Breathability	ISO 15797	46-58 & 94-110
2				46-58

EINSATZGEBIETE: Semiconductor and telecommunications industry, aerospace industry, automotive industry, warehouse work within electronics manufacturing* of particularly sensitive components

BLOUSON

ESD

Part number: **08022 18006 001 41**

Garment weight: approx. 425 g

1-coloured • stand-up collar with bevelled collar corner and covered snap fastening • front with covered snap fastening placket • 1 modern spade pocket on left side of chest • 2 side pockets with zip • ergonomically shaped sleeves with dividing seam • sleeves at hem with adjustable covered snap fastening • leasing label at back of collar • EPA badge on the hem.

royal

Sleeve hem with adjustable snap fastener



Stand-up collar with slanted collar corner

1 |



Ergonomically shaped arms with divided seams

Side pockets with zip fastener

TROUSERS

ESD

Part number: **08022 28010 000 41**

Garment weight: approx. 325 g

1-coloured • cut waistband with button closure • slit with zip • perforated elastic with button adjustable in the back • 2 wing pockets • 1 back pocket on the right with flap and covered snap fastener • 1 leg pocket on the right with flap and covered snap fastener, with cell phone pocket inside • embroidered EPA emblem.

royal

Leg pocket with mobile phone pocket inside

Embroidered EPA emblem

2 |



Adjustable elastic band with button in the back

* Due to the low contact resistance, there is no minimum contact protection against current-carrying elements

MATERIAL: 65 % POLYESTER, 33 % COTTON, 2 % METAL




FABRIC WEIGHT: approx. 165 g/m²

More sizes available – see size table on page 244

www.hb-online.com | © HB PROTECTIVE WEAR 213

Naptex® 4.0

Naptex® 4.0 offers reliable protection for electronic components when high surface resistance is required. The clothing is suitable for industrial washing and certified with the Pro Label. It withstands many washes and has a very long service life. The material has been developed by HB and is especially breathable and certified with the Hohenstein breathability label.

ITEM				REGULAR SIZES
1 - 4	10 ⁵ bis 10 ⁴ Ω acc. to EN 61340-5-1 (IEC 61340-5-1)	Breathability	ISO 15797	Men: S-2XL Ladies: XS-L
EINSATZGEBIETE: Semiconductor and telecommunications industry, aerospace industry, automotive industry, electronics manufacturing* of particularly sensitive components				

LADIES COAT, LONG-SLEEVE

ESD

Part number: **08022 48005 018 + COLOUR NO.**

Garment weight: approx. 370 g

COAT, LONG-SLEEVE

ESD

Part number: **08022 48000 026 + COLOUR NO.**

Garment weight: approx. 380 g

Single-coloured • cut without side seams • lapel collar • snap fastener closure covered on one side • 1 modern spade pocket on left chest • 2 attached side pockets with slanted openings • hemmed long sleeves • 2 darts on the women's coat • leasing label on the back of the collar • embroidered EPA emblem on the right upper arm.

 **10** white
 **41** royal

1 |



LADIES COAT, SHORT-SLEEVE

ESD

Part number: **08022 48005 019 + COLOUR NO.**

Garment weight: approx. 335 g

COAT, SHORT-SLEEVE

ESD

Part number: **08022 48000 027 + COLOUR NO.**

Garment weight: approx. 340 g

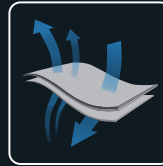
Single-coloured • cut without side seams • lapel collar • snap fastener closure covered on one side • 1 modern spade pocket on left chest • 2 attached side pockets with slanted openings • hemmed long sleeves • 2 darts on the women's coat • leasing label on the back of the collar • embroidered EPA emblem on the right upper arm.

 **10** white
 **41** royal

Embroidered
EPA emblem

2 |





LADIES COAT, LONG-SLEEVE WITH CUFFS

ESD

Part number: **08022 48005 020 10**

Garment weight: approx. 400 g

COAT, LONG-SLEEVE WITH CUFFS

ESD

Part number: **08022 48000 029 10**

Garment weight: approx. 410 g

Single-coloured • cut without side seams • lapel collar • snap fastener closure covered on one side • 1 modern spade pocket on the left breast side • 2 attached side pockets with slanted openings • cuffs with slit and hidden snap fasteners for adjustment • 2 darts on the women's coat • leasing label on the back in the collar • embroidered EPA emblem on the right upper arm.

☐ white

3 |



Darts on the women's coat

4 |

COAT, WITH KNITTED CUFFS

ESD

Part number: **08022 48000 028 10**

Garment weight: approx. 400 g

Single-coloured • cut without side seams • lapel collar • snap fastener closure covered on one side • 1 modern spade pocket on left chest • 2 attached side pockets with slanting openings • cuffs with knitted cuffs • leasing label in the back of the collar • embroidered EPA emblem on the right upper arm.

☐ white



* Due to the low contact resistance, there is no minimum contact protection against current-carrying elements

MATERIAL: 65 % POLYESTER, 33 % COTTON, 2 % METAL


FABRIC WEIGHT: approx. 165 g/m²

More sizes available – see size table on page 244

www.hb-online.com | © HB PROTECTIVE WEAR 215

HABETEX® ESD Comfort

HABETEX® ESD Comfort is the perfect solution for prevention of both electric charging and high particle release. The fabric combines ESD and cleanroom features. So this is multifunctional clothing for working areas needing both ESD and cleanroom protective properties. Fabric with quality label "breathability" from Hohenstein certification institute.

ITEM			REGULAR SIZES
1 , 2	10° bis 10° Ø acc. to EN 61340-5-1 (IEC 61340-5-1)	Breathability	Men/Unisex: S-2XL Ladies: XS-L
EINSATZGEBIETE: Semiconductor and telecommunications industry, aerospace industry, automotive industry, electronics manufacturing in cleanrooms, cleanroom requirements			



Ventilation on the back

Stand-up collar with slanted collar corner and covered snap fastener

Ergonomic sleeves with stretchy knitted cuffs



COVERALL, WITH KNITTED CUFFS

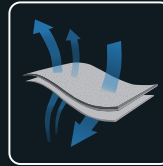
ESD/Cleanroom

Part number: **08020 38002 001 10**

Garment weight: approx. 385 g

Single-coloured • stand-up collar with slanted collar corner and covered snap fastener • front with covered 2-way zip fastener • ergonomic sleeves with stretchy knitted cuffs • ventilation on the back • leasing label on the inside in the back • embroidered EPA emblem on right upper arm.

☐ white



LADIES COAT, WITH KNITTED CUFFS

ESD/Cleanroom

Part number: **08020 48043 000 10**

Garment weight: approx. 290g

Single-coloured • stand-up collar with slanted collar corner and covered snap fastener • front with covered snap fastening and darts • 1 straight cutted pocket on the front • 2 slant pockets on the sides with slanted corner • ergonomic sleeves with stretchy knitted cuffs • leasing label on the inside in the back • embroidered EPA emblem on right upper arm.

☐ white

Very good cleanroom values and exceptionally high discharge values which are in a low 10^6 field even after 60 washings.

MATERIAL: 98 % POLYESTER, 2 % CARBON

FABRIC WEIGHT: approx. 125g/m² • **CHARACTERISTICS:** low weight, breathable

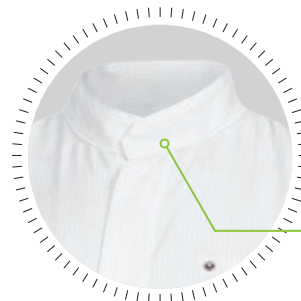
HABETEX



HABETEX® ESD Comfort & ACCESSORIES ESD

HABETEX® ESD Comfort is the perfect solution for prevention of both electric charging and high particle release. The fabric combines ESD and cleanroom features. So this is multifunctional clothing for working areas needing both ESD and cleanroom protective properties. Fabric with quality label "breathability" from Hohenstein certification institute.

ITEM			REGULAR SIZES
1 , 2	10 ⁴ bis 10 ⁷ Ø acc. to EN 61340-5-1 (IEC 61340-5-1)	Breathability	Men/Unisex: S-2XL Head Cover: 1/56 bis 5/64
EINSATZGEBIETE: Semiconductor and telecommunications industry, aerospace industry, automotive industry, electronics manufacturing in cleanrooms, cleanroom requirements			



Stand-up collar
with slanted corner



COAT, WITH KNITTED CUFFS

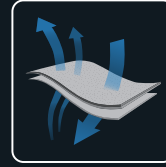
ESD/Cleanroom

Part number: **08020 48042 000 10**

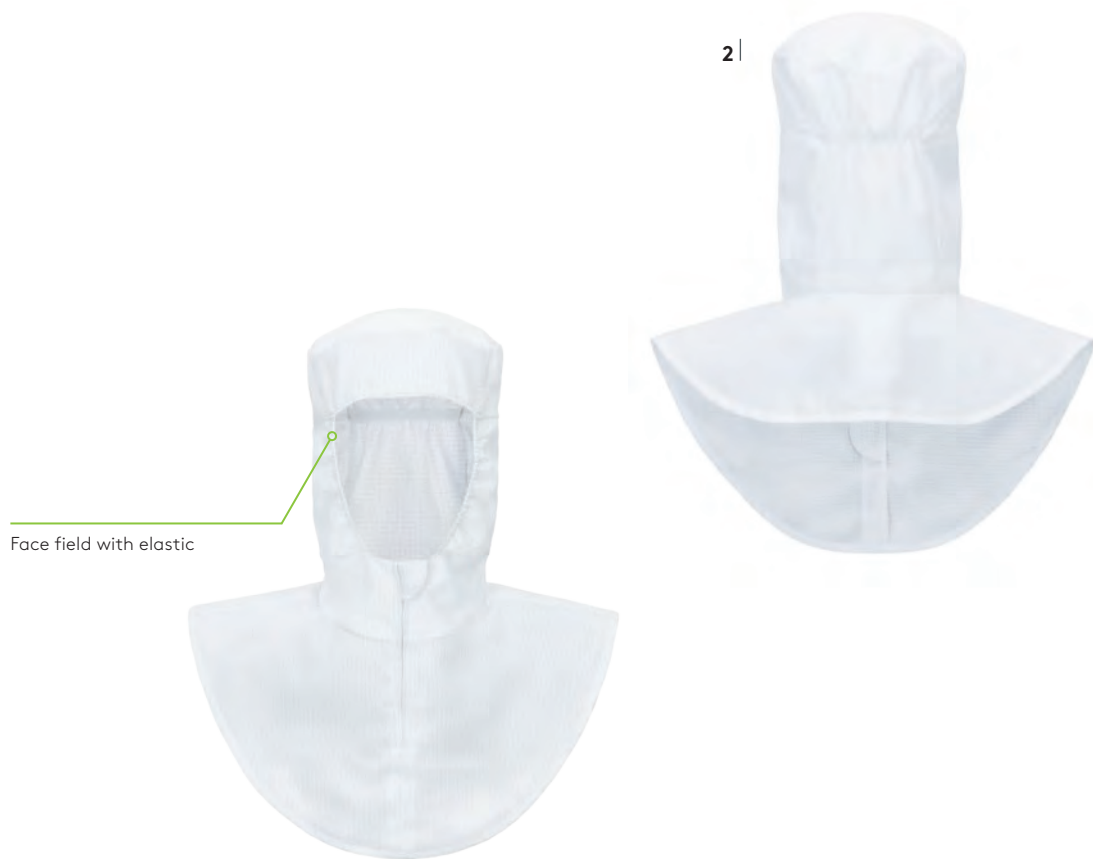
Garment weight: approx. 295 g

Single-coloured • stand-up collar with slanted collar corner and covered snap fastener • front with covered snap fastening and darts • 1 straight cut pocket on the front • 2 slant pockets on the sides with slanted corner • ergonomic sleeves with stretchy knitted cuffs • leasing label on the inside in the back • embroidered EPA emblem on right upper arm.

☐ white



ESD
ELECTRO-
STATIC
DISCHARGE



Face field with elastic

HEAD COVER

Accessories

Part number: **08020 77004 002 10**

Garment weight: approx. 20g

Single-coloured • round head part • face field with elastic • shoulder part in front closable with zip.

☐ white

Very good cleanroom values and exceptionally high discharge values which are in a low 10⁴ field even after 60 washings.

MATERIAL: 98 % POLYESTER, 2 % CARBON

FABRIC WEIGHT: approx. 125g/m² • **CHARACTERISTICS:** low weight, breathable

HABETEX®

CLEANROOM & DUST

OUR PURITY LAW DOES NOT APPLY TO YOUR BEER. BUT IT DOES FOR YOUR COVERALL.

Not a grain of dust, not a lint – this is the ideal of a cleanroom.

What is not intended in nature

is indispensable in paint shops, for example. In the cleanroom, it is the hour of fabrics that secrete as little as possible and also function as filters for particles emitted by the body.

A lot of experience and skills are needed to manufacture
from these our first-class products.





Model: Heiko, warehouse management
Collection: HABETEX® Micronplus

HABETEX® climatic Pro

This tried and tested cleanroom fabric offers the perfect combination of particularly high wearing comfort, optimised stability and a very low weight. The manufacture of our fabric HABETEX® climatic Pro is specially adapted to suit the specific requirements of cleanrooms.



COAT

Cleanroom

Part number: **06015 47010 000 + COLOUR NO.**

Garment weight: approx. 290g

Single-coloured • band collar • front edge with covered 2-way PVC zip fastener • 1 attached front pocket on the left • 1 inner front pocket on the right • 2 attached side pockets • visually appealing raglan sleeve with PVC snap fasteners for adjustment.

Regular sizes: 46/48–58/60

47 light blue

48 dark blue

53 grey



COVERALL

Cleanroom

Part number: **06015 37008 000 + COLOUR NO.**

Garment weight: approx. 430g

47 light blue

53 grey

Part number: **06015 37007 000 48**

Garment weight: approx. 430g

48 dark blue

Single-coloured • band collar • front with covered 2-way PVC zip fastener • 1 front pocket with flaps and PVC snap fastener (only dark blue: 2 breast pockets, one with name badge) • 1 hip pocket on the right with flap, no fastener • 1 trowel pocket on the right • waist adjustment via integrated elastic band with drawstring and stoppers • ventilation via cape collar on back • wristband made of bi-elastic material • elastic leg opening.

Regular sizes: 46/48–58/60

MATERIAL: 72 % VISCOSE, 28 % POLYESTER • **FABRIC WEIGHT:** approx. 105 g/m² •

CHARACTERISTICS: particularly high wearing comfort, very low garment weight •

FIELDS OF APPLICATION: Automotive industry, paint shop

HABETEX®



A high particle retention and very comfortable material for being a polyester fabric characterise HABETEX® Micronplus, as well as good breathability. Also the manufacture of the coveralls has been specially adapted to suit very high cleanroom requirements.



COVERALL



Cleanroom

Part number: **06008 37001 000 + COLOUR NO.**

Garment weight: approx. 640 g

Two-coloured • band collar • covered 2-way PVC zip fastener • 1 inner front pocket on the left • 2 attached front pockets, 1 hip pocket on the right and 1 leg pocket on the left as bellows on side seam with flap and covered hook&loop fastener • 2 side seam pockets • 1 ruler pocket on the right • outer pockets reinforced • waist adjustment via integrated elastic band with drawstring and stoppers • ventilation via cape collar on back and mesh inserts in armpit area • wristbands with vent and hook&loop fastener • leg opening adjustable via PVC snap fasteners.

Regular sizes: 46/48–58/60

 **2033** royal/bugatti blue
 **2083** anthracite/silver grey

COVERALL

Cleanroom

Part number: **06008 37012 001 + COLOUR NO.**

Garment weight: approx. 640 g

Single-coloured • turn-down collar • covered 2-way PVC zip fastener • 2 attached front pockets and 1 hip pocket, each with flaps and covered hook&loop fastener • 1 inner front pocket on the left • 1 ruler pocket on the right • 2 attached thigh pockets with bellows • 1 leg pocket on the left as bellows on side seam with flap and covered hook&loop fastener • waist adjustment via integrated elastic band with drawstring and stoppers • ventilation via mesh inserts in armpit area • wristbands with vent and hook&loop fastener • leg opening with vent and adjustable via hook&loop fastener.

Regular sizes: 46/48–58/60

 **10** white
 **53** grey

MATERIAL: 98 % POLYESTER, 2 % CARBON • **FABRIC WEIGHT:** approx. 150 g/m² •

CHARACTERISTICS: fuzz resistant, suited for cleanroom areas with high requirements •

HIGH PARTICLE RETENTION: nearly 100 % for particles > 5 µm •

FIELDS OF APPLICATION: Automotive industry, paint shop

HABETEX®

HABETEX® Micronselect

Despite its very high density, this cleanroom fabric has a low fabric weight. Thus, HABETEX® Micronselect is very comfortable and offers high water vapour permeability. The manufacture of our fabric HABETEX® Micronselect is specially adapted to suit the specific requirements of cleanrooms.



COVERALL WITH HOOD

Cleanroom

Part number: **06006 37024 001 41**

Garment weight: approx. 455g

Single-coloured • attached hood, adjustable in chin area via hook&loop fastener • field of vision and neck with adjustment via elastic band • covered 2-way PVC zip fastener • 2 attached front pockets with flaps and covered hook&loop fastener • 1 hip pocket on the right with hook&loop fastener • waist adjustment with integrated elastic lateral waistband • ventilation via cape collar on back • wristband with let-in piece and hook&loop fastener • leg opening with vent and covered hook&loop fastener.

Regular sizes: 46/48–58/60

 royal



COVERALL WITH HEAD COVER

Cleanroom

Part number: **06006 37032 000 + COLOUR NO.**

Garment weight: approx. 480 g

Single-coloured • integrated cap, adjustable chin area and head width via PVC snap fasteners • field of vision adjustable via elastic band • closure band with covered 2-way PVC zip fastener • 2 inner front pockets with PVC zip fastener • back ventilation via cape collar • raglan sleeves with thumb loop • leg hem with overshoe cap.

Regular sizes: 46/48–58/60

■ **58** anthracite

□ **10** white

■ **41** royal



COAT

Cleanroom

Part number: **06006 47010 000 10**

Garment weight: approx. 335 g

Single-coloured • standing board • closure band with covered 2-way PVC zip fastener • 1 front pocket on the left • 1 inner front pocket on the right • 2 side pockets • raglan sleeves with PVC snap fasteners for adjustment.

Regular sizes: 46/48–58/60

□ white

MATERIAL: 98 % POLYESTER, 2 % CARBON • **FABRIC WEIGHT:** approx. 115 g/m² •

CHARACTERISTICS: very low fabric weight •

FIELDS OF APPLICATION: Automotive industry, paint shop

HABETEX®

▶ ACCESSORIES CLEANROOM

To complete your cleanroom outfit, we offer functional head protection and gloves. Both are central elements when working in areas that need to be free of dust and fluff.

HEAD COVER, ELASTIC BAND

Accessories

Part number: **06015 77000 000 47**

Garment weight: approx. 40 g

Single-coloured • round upper head part • field of vision with elastic band all round • shoulder part lockable via hook&loop fastener at front.

Material: 72 % Viscose, 28 % Polyester

Grammage: approx. 105 g/m²

Sizes: 1/56–5/64

■ light blue

1 |



Field of vision with elastic band all round

VISOR CAP

Accessories

Part number: **06008 77002 000 53**

Garment weight: approx. 35 g

Single-coloured • visor made of reinforced PVC material • 2 lateral separation seams • elastic band centrally on the back • hem reinforced by PES rep ribbon.

Material: 98 % Polyester, 2 % Carbon

Grammage: approx. 150 g/m²

Sizes: 1/54–5/6 to 3/60–6/3

■ grey

2 |



Elastic band centrally on the back

VISOR CAP

Accessories

Part number: **06015 77002 000 53**

Garment weight: approx. 30 g

Single-coloured • visor made of reinforced PVC material • 2 lateral separation seams • elastic band centrally on the back • hem reinforced by PES rep ribbon.

Material: 72 % Viscose, 28 % Polyester

Grammage: approx. 105 g/m²

Sizes: 1/54–5/6 to 3/60–6/3

■ grey

3 |





GLOVES

Accessories

Part number: **08009 76004 000 10**

Garment weight: approx. 20g

Uncoated, with knitted cuffs • Packaging unit: 10 pairs.

Material: Nylon for gloves 100 % Polyamide

Sizes: S-XL

☐ white

4 |



GLOVES

Accessories

Part number: **08009 76007 000 10**

Garment weight: approx. 25g

Jersey gloves • Packaging unit: 12 pairs/bag.

Material: 100 % Cotton


Sizes: 8-11

☐ white

5 |


















OVERVIEW PRODUCT LINES


	Product Line	Fabric Composition Upper material	Fabric weight (approx. ... g/m ²)	Retro Reflective	Attachment of emblems & patches Patch : Stitch		 ISO 15797
ARC & ENERGY	HB-SecureAllround®	75% CO, 24% PES, 1% Carbon	350	✓	✓	✓	Dryer
	HB-ArcSelect® Pro	87% CO, 12% PA, 1% Carbon	340 + 280 280	✓	✓	✓	see pages 26-31
	HB-4arc®	89% CO, 10% PA, 1% Carbon	340 + 265 390 + 250		✓	✓	Dryer
	HB-MODarc®	55% MAC, 43% CO, 2% Carbon	275 + 175		✓	✓	Dryer*
	HB-MODarc® Reflective Stripes	55% MAC, 43% CO, 2% Carbon	275 + 175	✓	✓	✓	Dryer*
	HB-MODarc® knit	54% MAC, 44% CO, 2% Carbon	215		✓	✓	
	HB-MODarc® Sweatshirt	54% MAC, 44% CO, 2% Carbon	405		✓	✓	Dryer*
	HB-PROtection®	55% MAC, 43% CO, 2% Carbon	275 + 175	✓	✓	✓	Dryer*
	HB-PROtection® Green Turtle	54% MAC, 44% CO, 2% Carbon	195		✓	✓	Dryer
	HB-MODarc & vis®	55% MAC, 43% CO, 2% Carbon	275 + 175	✓	✓	✓	Dryer*
	HB-MODarc&vis® Polo-Shirt 2397	49% PES, 30% MAC, 20% CO, 1% Carbon	245	✓	✓	✓	
	HB-MODarc&vis® Polo-Shirt 2112	54% MAC, 44% CO, 2% Carbon	215	✓	✓	✓	
	HB-MODarc&vis® Vest FR	55% MAC, 43% CO, 2% Carbon	275	✓	✓	✓	Dryer*
	HB-MODarc&vis® Fleece jacket	48% MAC, 32% CO, 18% PES, 2% Carbon	360	✓		✓	
	HB-MODarc&vis® Sweatshirt	54% MAC, 44% CO, 2% Carbon	405	✓	✓	✓	Dryer*
	HB-MODarc&vis® Fleece jacket	48% MAC, 32% CO, 18% PES, 2% Carbon	360			✓	
	HB-MODarc&vis® Parka with liner	55% MAC, 43% CO, 2% Carbon, FC-Equipment	275	✓	✓	✓	
	HB-MODarc&vis® Parka	55% MAC, 43% CO, 2% Carbon, PU-Membrane	300	✓	✓	✓	
	HB-MODarc&vis® Bib trousers	55% MAC, 43% CO, 2% Carbon, PU-Membrane	300	✓	✓	✓	
	HB-4Energy®	44% MAC, 30% CO, 20% PA, 5% AR, 1% Carbon	260 + 180	✓	✓	✓	Dryer*
	HB-MultiPro FR® Parka	31% PES, 28% MAC, 20% AR, 20% CV, 1% Carbon with liner	320	✓	✓	✓	
	HB-MultiPro FR® Fleece jacket	48% MAC, 32% CO, 18% PES, 2% Carbon	360 + 195			✓	
	HB-MultiPro FR® Brace trousers	31% PES, 28% MAC, 20% AR, 20% CV, 1% Carbon	320	✓	✓	✓	
	NOMEX® Viscose	50% CV, 49% AR, 1% Carbon	260	✓		✓	
	NOMEX® Comfort	98% AR, 2% Carbon	260		✓	✓	
	INOTEC® Arc & Energy	98% AR, 2% Carbon	260 + 180	✓	✓	✓	Dryer
HEAT, SPLASHES & WELDING	PROBAN®	100% CO	470			✓	Dryer
	HB-WeldersFORCE	79% CO, 10% PES, 1% Carbon	350 450				Dryer Dryer
	HB-4welders® 2.0	89% CO, 10% PA, 1% Carbon	390		✓	✓	Dryer
	HB-ComFlex®	94% CO, 4% PES, 2% Elasthane	425				Dryer
		40% AR, 30% MAC, 20% CLY, 9% PA, 1% Carbon	430				Dryer
	SECAN® Securo 420	98% CO, 2% Carbon	420		✓	✓	Dryer
	HB-Iron Pro	98% CO, 2% Carbon	420	✓	✓	✓	Dryer
	HB-Iron Pro Shirt		250				Dryer
	MARLAN	50% CV FR, 30% WO, 20% PA	365		✓	✓	Dryer+Finisher
	HB-HeavyMetal Pro® Jacket + Trouser	50% CO, 39% MAC, 10% CV, 1% Carbon	340	✓	✓	✓	Dryer+Finisher
	HB-HeavyMetal Pro® Jacket + Trouser	52% CO, 37% MAC, 10% CV, 1% Carbon	430	✓	✓	✓	Dryer+Finisher
	HB-HeavyMetal Pro® Shirt	50% CO, 39% MAC, 10% CV, 1% Carbon	250		✓	✓	Dryer+Finisher
	VINEX®	85% Vinylal, 15% Modal	390 285		✓	✓	
	TEMPEX®-TREME HEAT					✓	
	CK-12/Z	70% Preox, 30% AR	360				
	AW-1/Y	100% AR	420				
	KF-3/Z	100% AR	475				
	CK-4/Z	70% Preox, 30% AR	690				
CHEMICALS	HB-CHEMstandard	100% PAC, FC-Equipment	270		✓	✓	
	HB-CHEM Protect	99% RECYCLED PES, 1% Carbon, FC-Equipment	240		✓	✓	Dryer+Finisher

1) A = A1 + A2 ✓ = Flame retardent 2) Blouson and trousers or bib and brace trousers worn together. * Reduced washing temperature 60°C.



														
IEC 61482-2	EN ISO 11611	EN ISO 11612	EN 1149-5	EN 13034	EN ISO 20471	EN 17353	EN 343	EN 13758-2	EN 14058	EN 342	EN 61340-5-1	EN 15384	MULTI-RISK	21 TO WEAR®
APC 1	Class 1	A/B1/C1/E2/F1	✓	Type 6									✓	✓
APC 1/2	Class 1	A/B1/C1/F1	✓			B2							✓	✓
APC 1	Class 1	A/B1/C1/E1/F1	✓										✓	✓
APC 2	Class 1	A/B1/C1/F1	✓										✓	✓
APC 2	Class 2	A/B1/C1/E3/F1	✓										✓	✓
APC 1/2	Class 1	A/B1/C1/F1	✓	Type 6									✓	✓
APC 1/2	Class 1	A/B1/C1/F1	✓	Type 6		B3							✓	✓
APC 1		A/B1/C1/F1	✓					✓					✓	
APC 2		A/B1/C1	✓					✓					✓	
APC 1/2	Class 1	A/B1/C1/F1	✓	Type 6									✓	✓
APC 1		A/B1/C1/F1	✓										✓	✓
APC 1/2	Class 1	A/B1/C1/F1	✓	Type 6	Class 3 ²⁾								✓	✓
APC 1		A1/B1/C1/F1	✓		Class 2			✓					✓	
APC 1		A/B1/C1/F1	✓		Class 2			✓					✓	
		A/B1/C1/F1	✓										✓	✓
APC 1		A1/B1/C2/F1	✓		Class 2				Class 1				✓	✓
APC 2		A1/B1/C1	✓		Class 2			✓					✓	
									Class 1				✓	✓
APC 2	Class 1	A/B1/C1/E1/F1	✓	Type PB [6]	Class 2		Cl. 3/3						✓	
APC 2	Class 1 A1	A1/B1/C1/F1	✓	Type 6	Class 2		Cl. 3/4						✓	✓
APC 1	Class 1 A1	A1/B1/C1/F1	✓	Type 6	Class 1		Cl. 3/4						✓	✓
APC 1/2	Class 1 A1	A1/B1/C1/F1	✓	Type 6	Class 3 ²⁾								✓	
APC 2	Class 2 A1	A1/B1/C1/E1/F1	✓	Type 6	Class 3 ²⁾		Cl. 3/4						✓	
APC 1/2		A1/B1/C2/F1	✓						Class 1				✓	✓
APC 2	Class 2 A1	A1/B1/C1/E1/F1	✓	Type 6	Class 1		Cl. 3/4						✓	✓
APC 1	Class 1 A1	A1/B1/C1/F1	✓										✓	✓
APC 1		A1/B1/C1/F1	✓										✓	
APC 1/2		A1/B1/C1/F1	✓	Type 6									✓	
	Class 2 A1	A1/B1/C1/E3/F1												
	Class 1	A/B1/C1/E2/F1	✓											
	Class 2	A/B1/C1/E2/F1	✓											
	Class 2	A/B1/C1/E3/F1	✓										✓	✓
	Class 2	A/B1/C1/E2												
	Class 2	A/B1/C1/E2												
	Class 2	A/B1/C1/E3/F1	✓											
	Class 2	A/B1/C1/E3/F1	✓				✓						✓	✓
	Class 1	A/B1/C1/E1/F1	✓				✓						✓	✓
	Class 1	A1/B1/C1/D3/E3/F1												
	Class 1	A/B1/C1/D2/E2/F1	✓				✓						✓	
	Class 2	A/B1/C1/D3/E3/F1	✓				✓						✓	
	Class 1	A/B1/C1/D1/E2/F1	✓											
		A/B1/C1/D3/E2/F1												
		A/B1/C1/D1/E1/F1												
		A1/B1/C3/D3/E3/F1												
		A1/B1/C4/D3/E3/F2												
		A1/B1/C3/D3/E3/F1												
		A1/B1/C3/D3/E3/F2												
				Type 6										
			✓	Type 6										✓

OVERVIEW PRODUCT LINES

	Product Line	Fabric Composition Upper material	Fabric weight (approx. ... g/m ²)	Retro Reflective	Attachment of emblems & patches		 ISO 15797
					Patch	Stitch	
HIVIS & WEATHER	HI-VISION® Basic Reflective Shirts	55 % CO, 45 % PES	185	✓	✓	✓	Dryer+Finisher
	HI-VISION® Basic Parka	99 % PES, 1 % Carbon, Fluorcarbon finish	150	✓		✓	
	HB-StormBase® Parka+Brace trousers	99 % PES, 1 % Carbon, Fluorcarbon finish	150	✓			
COLD PROTECTION	TEMPEX® CLASSIC 2.0	100 % PA	515	✓ ³⁾		✓	Dryer
	TEMPEX® CLASSIC	100 % PA	415	✓ ³⁾			
			520	✓ ³⁾			
			560	✓ ³⁾			
			630	✓ ³⁾			
			645				
	TEMPEX® COMFORT	100 % PA	445/545/645	✓ ³⁾		✓	
	TEMPEX® HYGIENE	100 % PA	415/515			✓	
	TEMPEX® THERMO	100 % PA	265/155/245				
	TEMPEX® THERMO HYGIENE	100 % PA	245				
	TEMPEX® COLD Pro	100 % PA	620	✓			
FIRE & RESCUE SERVICES	Flammgard® Klassik	49 % AR, 50 % CV FR, 1 % Carbon	300		✓	✓	
	Flammgard® Green Turtle Poloshirt	100 % RECYCLED PES	160		✓	✓	
	Flammgard® Green Turtle Shirt/Blouse	100 % CO (ORGANIC)	120		✓	✓	
	Flammgard® Nordrhein-Westfalen	59 % AR, 40 % CV FR, 1 % Carbon	260		✓	✓	
	Flammgard® Baden-Württemberg	59 % AR, 40 % CV FR, 1 % Carbon	260		✓	✓	
	Flammgard® Saarland	59 % AR, 40 % CV FR, 1 % Carbon	260		✓	✓	
	Flammgard® Bayern	63 % PES, 33 % CO, 4 % Elasthane	245		✓	✓	
	Softshell	94 % PES, 6 % Elasthane	300		✓	✓	
	Fleece	100 % PES	300 / 260			✓	
	HB-Technical Rescue Parka	98 % AR, 2 % Carbon	195	✓	✓	✓	
	HB-Technical Rescue Trouser	59 % AR, 40 % CV FR, 1 % Carbon	260	✓	✓	✓	
	HB-Technical Rescue Fleece	48 % MAC, 32 % CO, 18 % PES, 2 % Carbon	360		✓	✓	
	HB-Technical Rescue lite	49 % AR, 50 % CV FR, 1 % Carbon	300	✓	✓	✓	
	HB-Wildfire® 2.0	49.5 % CV FR, 49.5 % AR, 2 % Carbon	230	✓	✓	✓	
ESD	CONDUCTEX® Green Turtle	75 % RECYCLED PES, 23 % CO (ORGANIC), 2 % Carbon	130		✓	✓	Dryer+Finisher
	CONDUCTEX® Cotton Knit Green Turtle	95 % CO (BIO), 5 % Carbon	160		✓	✓	
	CONDUCTEX®	75 % PES, 23 % CO, 2 % Carbon	130		✓	✓	
	CONDUCTEX® Cotton Knit	95 % CO, 5 % Carbon	160		✓	✓	
			300		✓	✓	
	CONDUCTEX® Pro Knit	48 % CO, 48 % PES, 4 % Carbon	170		✓	✓	
		60 % PES, 33 % CO, 7 % Carbon	305		✓	✓	
	Naptex® 4.0	65 % PES, 33 % CO, 2 % Metall	165		✓	✓	
	HABETEX® ESD Comfort	98 % PES, 2 % Carbon	125		✓	✓	
CLEANROOM	HABETEX® climatic Pro	72 % CV, 28 % PES	105		✓		
	HABETEX® Micronplus	98 % PES, 2 % Carbon	150		✓		
	HABETEX® Micronselect	98 % PES, 2 % Carbon	115		✓		

✓ = Flame retardent ³⁾ Reflective application, no Hi-Vis protection. ⁴⁾ Does not apply to blouson and trousers. ⁵⁾ Applies to jacket and trousers.
 * Reduced washing temperature 60°C.

[illegible]

► EMBLEMS AND PATCHES



HOW YOUR PPE BECOMES YOUR CORPORATE IDENTITY

Your employees' protective clothing is now just as much a part of your company's image as your website or vehicles – it is your company's business card as it conveys expertise and is immediately perceived by your customers. Equipped with company emblems and name badges, it also supports employees' identification with the company and is an important distinguishing feature.

However, to ensure that safety doesn't get left behind and conformity with standards doesn't suffer, a few important points must be noted.

The PPE Regulation, which has been in force since 2018, clearly stipulates that any subsequent changes to PPE that are not in accordance with the respective Type examination certificate will result in the certification becoming null and void. This means that anyone who makes a change of this kind becomes the manufacturer of a new item of PPE, which must undergo recertification.

At HB Protective Wear, we have certified our product lines in such a way that they can be equipped with different emblem variants. Embroidered emblems,

direct embroidery, patched or woven emblems are available in different sizes depending on the product.

We only use materials that have successfully undergone certification so that the certified protective properties of the garments are still guaranteed after finishing. To see which emblem variants are available for your collection, please refer to the overview starting on page 212.








If you would like to attach emblems to your HB Protective Wear garments or those of your customers yourself, please contact us. We will be happy to provide information on what to consider concerning material, size and attachment position when customising your HB collection. This is because only materials and emblem sizes that have been tested in the course of certification may be used, so as not to put the certification and safety of your protective clothing at risk.



IMPORTANT INFORMATION FOR ATTACHING EMBLEMS AND BADGES:

The implementation of certification-relevant changes to protective clothing – such as the subsequent affixing of emblems – by third parties, which are not carried out in conformity with the manufacturer's specifications, means that the products concerned are no longer covered by the respective Type examination certificate and the certification becomes null and void. Subsequent attachment of any emblems to our protective garments is only possible if they have been certified as part of a Type examination. Therefore we would advise that the finishing of our protective clothing products is carried out by HB as the manufacturer.



STANDARDS	 EN 1149-5 Antistatic protection	 EN 11611 Welding protection	 EN 11612 Heat and flame protection	 EN 61482-2 Arc Flash protection	 EN 20471 High visibility reflective properties	 EN 13034 Type 6 Chemical protection	 EN 342 Cold protection
EMBROIDERED EMBLEMS	Emblems (made from antistatic fabric), accessories and other features with no conductive properties, have to be firmly attached without being able to become detached; it is not allowed to fix them via hook&loop fastening or via snap fasteners.	Manufacture: Background and embroidery yarn is only to be used in certified FR version. If a background material and/or embroidery yarn not tested by the manufacturer is used, the embroidery emblem must be tested individually. The stitching of the embroidery emblems must be done with FR yarn			In order to comply with the determined high-visibility protection classes, the manufacturer's instructions regarding the maximum available space for the emblem application must be considered when selecting the emblem sizes.* At least 5 cm distance to reflective stripes are to be kept.	Free-standing embroidery badges are to be tested on the garment. In addition, same fabric or a comparable material with the same or higher performance class is to be used as background material. Small embroidery badges that can be attached touching the edges are allowed.	Embroidered emblems can be applied without affecting the thermal insulation specified by the manufacturer.*
	If a background material and/or embroidery yarn not tested by the manufacturer is used, the embroidered emblem must be explicitly tested on the desired materials if the size exceeds 100 cm²!		Manufacture: For the EN standard code E and D 1-3, manufacture in the roof tile effect is always necessary to do.				
DIRECT EMBROIDERIES		Manufacture: The direct embroidery absolutely must be underlaid with a FR material towards the body. The embroidery yarn is only to be used in certified FR version. If another embroidery thread is used, the direct embroidery must be tested individually.			In order to comply with the determined high-visibility protection classes, the manufacturer's instructions regarding the maximum available space for the emblem application must be considered when selecting the emblem sizes.* At least 5 cm distance to reflective stripes are to be kept.	The direct embroidery must be underlaid with outer fabric towards the body. Direct embroideries larger than 20 qcm must be explicitly tested on the garment. Large direct embroideries are generally not recommended.	Direct embroideries are only allowed to be attached for the following product lines: Comfort, Hygiene and Fleece; they need to be tested depending on the embroidery's size.*
PATCHED EMBLEMS	If a patch emblem not tested by the manufacturer is used, the patch emblem must be explicitly tested on the desired materials if the size exceeds 100 cm²!	Manufacture: Material qualities not shown in our catalogue (see pages 214-217), and marked as certified, must be tested individually in the largest possible size in accordance with EN 15025, ISO 17493 and EN 1149-5 and, if necessary, in accordance with the standard specification code D+E.			In order to comply with the determined high-visibility protection classes, the manufacturer's instructions regarding the maximum available space for the emblem application must be considered when selecting the emblem sizes.* At least 5 cm distance to reflective stripes are to be kept.	Patch badges up to a size of 320x120 mm are tested and approved by the manufacturer.	Not allowed.
WOVEN EMBLEMS	Web emblems that are not conductive must be firmly attached without being able to become detached.	For woven emblems larger than 10 cm² has to be available a recent test report according to EN 15025.			In order to comply with the determined high-visibility protection classes, the manufacturer's instructions regarding the maximum available space for the emblem application must be considered when selecting the emblem sizes.* At least 5 cm distance to reflective stripes are to be kept.	Woven badges larger than 20 qcm must be explicitly checked.	Woven emblems can be applied without affecting the thermal insulation specified by the manufacturer.*

* The details of the maximum available space for the emblem application are shown on our product data sheets for each sales item.
Please contact our sales representatives for more information (see page 231).

▶ OUR PARTNERS

WE SUCCESSFULLY COOPERATE WITH THE FOLLOWING COMPANIES IN THE FIELD OF ACCESSORIES:

The logo for comazo protect, featuring the word "comazo" in a bold, lowercase sans-serif font with a small crown icon above the 'o', followed by a vertical line and the word "protect" in a smaller, lowercase sans-serif font. The entire logo is set against an orange rectangular background.

JOINTLY STRONG

Fair and cooperative collaboration with all our partners has always been very important to us.

In order to be able to offer our customers the best possible quality, we also rely on long-term cooperation with renowned manufacturers for our accessories, so that we can continue to meet the highest standards for both.



ejendals
PROTECTING HANDS AND FEET

EWS
„Die Schuhfabrik“ e.K.

RUDOLF UHLEN GmbH
Herstellung von Arbeitsschutzartikeln



VOSS
HELM E















21 TO WEAR®

The following versions will be supplied within our high-speed delivery service 21 TO WEAR®.

First order starting with 1 piece and delivery time approx. 21 days.

No stock-keeping for these products. Requirements of more than 30 pieces will normally be produced separately, the production time then will be approx. 6-8 weeks from receipt of order.

21 TO WEAR® FOR LADIES

Item number	Designation	Material	Colour	Weight	Standards	
HB-PROtection®   						
01072 10206 006 2177	Ladies jacket 1-ply 4kA	55% Modacrylic, 43% Cotton, 2% Carbon	navy/dark grey	approx. 275 g/m²	IEC 61482-2 APC 1 EN ISO 11612 A1+A2/B1/C1/F1 EN ISO 11611 Class 1 A1+A2 EN 1149-5 EN 13034 Type 6	
01072 20144 010 2175	Ladies trousers 1-ply 4kA		dark grey/navy			
01072 10206 008 2177	Ladies jacket 2-ply 7kA/4kA		navy/dark grey	approx. 275 g/m² +approx. 175 g/m²	IEC 61482-2 APC 2 (front parts and sleeves) EN ISO 11612 A1+A2/B1/C1/F1 EN ISO 11611 Class 1 A1+A2 EN 1149-5 EN 13034 Type 6	
01072 10206 007 2177	Ladies jacket 2-ply 7kA				IEC 61482-2 APC 2 EN ISO 11612 A1+A2/B1/C1/F1 EN ISO 11611 Class 1 A1+A2 EN 1149-5 EN 13034 Type 6	
HB-PROtection® Green Turtle   						
01251 60029 000 52	Ladies shirt 1-ply 4kA	54% Modacrylic, 44% Cotton (organic), 2% Carbon	middle grey	approx. 195 g/m²	IEC 61482-2 APC 1 EN ISO 11612 A1+A2/B1/C1/F1 EN 1149-5 EN 13758-2	
HB-MODarc®    						
01072 10206 002 2251	Ladies blouson 1-ply 4kA	55% Cotton, 43% Modacrylic, 2% Carbon	grey/black	approx. 275 g/m²	IEC 61482-2 APC 1 EN ISO 11612 A1+A2/B1/C1/F1 EN ISO 11611 Class 1 A1+A2 EN 1149-5 EN 13034 Type 6	
01072 20144 006 2188	Ladies trousers 1-ply 4kA		black/grey			
01072 20144 006 2251	Ladies blouson Reflective Stripes 1-ply 4kA		grey/black			
01072 10206 013 2041	Ladies blouson Reflective Stripes 1-ply 4kA		navy/royal			
01072 10206 013 2251	Ladies trousers Reflective Stripes 1-ply 4kA		grey/black	approx. 275 g/m² +approx. 175 g/m²	IEC 61482-2 APC 2 (front parts and sleeves/front of trouser legs) EN ISO 11612 A1+A2/B1/C1/F1 EN ISO 11611 Class 1 A1+A2 EN 1149-5 EN 13034 Type 6	
01072 20144 020 2188	Ladies trousers Reflective Stripes 1-ply 4kA		black/grey			
01072 20144 022 45	Ladies blouson Reflective Stripes 1-ply 4kA		navy			
01072 10206 014 2041	Ladies blouson Reflective Stripes 2-ply 7kA/4kA		navy/royal			
01072 10206 014 2251	Ladies trousers Reflective Stripes 2-ply 7kA/4kA		grey/black			
01072 20144 021 2188	Ladies trousers Reflective Stripes 2-ply 7kA/4kA		black/grey			
01072 20144 023 45	Ladies trousers Reflective Stripes 2-ply 7kA/4kA		navy			
HB-MODarc&vis®    						
01072 10206 004 2112	Ladies blouson 1-ply 4kA	55% Modacrylic, 43% Cotton, 2% Carbon	fluorescentyellow/ navy	approx. 275 g/m²	EN ISO 20471 Class 1+2* IEC 61482-2 APC 1 EN ISO 11612 A1+A2/B1/C1/F1 EN ISO 11611 Class 1 A1+A2 EN 1149-5 EN 13034 Type 6	
01072 20144 008 2112	Ladies trousers 1-ply 4kA					
01072 10206 005 2112	Ladies blouson 2-ply 7kA/4kA			approx. 275 g/m² +approx. 175 g/m²	EN ISO 20471 Class 1+2* IEC 61482-2 APC 2 (front parts and sleeves/front of trouser legs) EN ISO 11612 A1+A2/B1/C1/F1 EN ISO 11611 Class 1 A1+A2 EN 1149-5 EN 13034 Type 6	
01072 20144 009 2112	Ladies trousers 2-ply 7kA/4kA					




* Blouson combined with trousers or bib and brace trousers as suit = Class 3

* Blouson combined with trousers or bib and brace trousers as suit = Class 3







- For all those who require PPE urgently
- Rapid response to immediate requirements
- Get your employees started straight away
- 100 % HB quality
- Reduces your stock

Please find more information at
www.21toward.de

Item number	Designation	Material	Colour	Weight	Standards
HB-4welders® 2.0   					
01237 20144 011 458	Ladies trousers 2-ply 7kA	89% Cotton, 10% Polyamide, 1% Carbon	navy	approx. 390g/m²	EN ISO 11611 Class 2 A1+A2 EN ISO 11612 A1+A2/B1/C1/E3/F1 EN 1149-5 IEC 61482-2 APC 1
01237 20144 011 52			medium grey		
HB-CHEMprotect					
02018 40073 000 2030	Ladies coat	99% Polyester, 1% Carbon	royal/dark blue	approx. 240g/m²	EN 13034 Type 6 EN 1149-5
02018 40073 000 2382			anthracite/dark blue		

21 TO WEAR® FOR MEN

Item number	Designation	Material	Colour	Weight	Standards
HB-MODarc®   					
01072 10107 034 2188	Blouson 1-ply 4kA	55 % Cotton, 43 % Modacrylic, 2 % Carbon	black/grey	approx. 275 g/m²	IEC 61482-2 APC 1 (2-ply: IEC 61482-2 Class 2 (front parts and sleeves)) EN ISO 11612 A1+A2/B1/C1/F1 EN ISO 11611 Class 1 A1+A2 EN 1149-5 EN 13034 Type 6
01072 10107 035 2188	Blouson 2-ply 7kA/4kA			approx. 275 g/m² +approx. 175 g/m²	
01072 10107 050 2188	Blouson Reflective Stripes 1-ply 4kA			approx. 275 g/m²	
01072 10107 051 2188	Blouson Reflective Stripes 2-ply 7kA/4kA			approx. 275 g/m² +approx. 175 g/m²	
HB-Iron Pro 					
01248 20000 008 3011	Trousers with knee pocket	98 % Cotton, 2 % Carbon	middle grey/orange/ fluorescent yellow	approx. 420 g/m²	EN ISO 11612 A1+A2/B1/C1/E3/F1 EN ISO 11611 Class 2 A1+A2 EN 1149-5 IEC 61482-2 Class 1 EN 17353 Type B2
01248 50100 006 3011	Bib and brace trousers with knee pocket				
HB-CHEMprotect					
02018 20000 014 2030	Trousers with knee pocket	99 % Polyester, 1 % Carbon	royal/dark blue	approx. 240 g/m²	EN 13034 Type 6 EN 1149-5
02018 20000 014 2082			anthracite/dark blue		

▶ TEMPEX®-TREME HEAT

PRODUCT VARIANTS OF OUR MODULAR HEAT PROTECTION SYSTEM

Here you will find all relevant tables and information concerning our TEMPEX®-TREME HEAT modular system. Choose between many different features and product variants. This modular clothing system enables you to put together your own personal heat protection equipment according to your individual requirements at the work place.

The following products will be, in case they are not available on stock, supplied within our high-speed delivery service 21 TO WEAR®. First order starting with 1 piece and delivery time approx. 21 days*. Requirements of more than 30 pieces will normally be produced separately, the production time then will be approx. 6–8 weeks from receipt of order.

MATERIAL VARIANTS OF THE MODULAR HEAT PROTECTION SYSTEM

The following table shows the different materials and indicates the material name, the material composition, the material weight and the certified fabric's standards.

Part number	Material name	Material	Material weight	Standards
120xx = 12014	CK-12/Z	70 % Preox, 30 % Aramide	approx. 360 g	EN ISO 11612 A1/B1/C3/D3/E3/F1
120xx = 12008	AW-1/Y	100 % Aramide	approx. 420 g	EN ISO 11612 A1/B1/C4/D3/E3/F2
12003	KF-3/Z	100 % para-aramide	approx. 475 g	EN ISO 11612 A1/B1/C3/D3/E3/F1

FOUNDRY COAT (see pages 98, 102 and 104)

Product line	Part number	Closure	Ergonomic sleeves	Ventilation	Walking comfort	On stock
1 CLASSIC KF-3/Z	12003 41030 000 15	Hook & loop	–	–	–	✓
	12003 41040 000 15	Hook & loop	–	–	–	21 TO WEAR®
	12003 41030 200 15	Quick release	–	–	–	21 TO WEAR®
	12003 41040 200 15	Quick release	–	–	–	21 TO WEAR®
2 COMFORT CK-12/Z AW-1/Y	12014 41130 001 15	Hook & loop	✓	–	Slit	✓
	12008 41130 001 15	Hook & loop	✓	–	Slit	✓
	120xx 41yyy 001 15	Hook & loop	✓	–	Slit	21 TO WEAR®
	120xx 41yyy 101 15	Snap fastening	✓	–	Slit	21 TO WEAR®
3 COMFORT Plus CK-12/Z AW-1/Y	120xx 41yyy 011 15	Hook & loop	✓	Sleeves	Slit	21 TO WEAR®
	120xx 41yyy 012 15	Hook & loop	✓	Sleeves	Pleat	21 TO WEAR®
	120xx 41yyy 111 15	Snap fastening	✓	Sleeves	Slit	21 TO WEAR®
	120xx 41yyy 112 15	Snap fastening	✓	Sleeves	Pleat	21 TO WEAR®
	12014 41130 021 15	Hook & loop	✓	Sleeves + Back	Slit	✓
	12008 41130 021 15	Hook & loop	✓	Sleeves + Back	Slit	✓
	120xx 41yyy 021 15	Hook & loop	✓	Sleeves + Back	Slit	21 TO WEAR®
	120xx 41yyy 022 15	Hook & loop	✓	Sleeves + Back	Pleat	21 TO WEAR®
	120xx 41yyy 121 15	Snap fastening	✓	Sleeves + Back	Slit	21 TO WEAR®
	120xx 41yyy 122 15	Snap fastening	✓	Sleeves + Back	Pleat	21 TO WEAR®

Length variants 1 | CLASSIC

Part number	Length of the back
41030	130 cm
41040	140 cm

Length variants 2 | COMFORT + 3 | COMFORT Plus

Part number	Length of the back
41yyy = 41110	110 cm
41yyy = 41120	120 cm
41yyy = 41130	130 cm
41yyy = 41140	140 cm

Order example:

If you like to order the COMFORT Plus foundry coat 70 % Preox, 30 % Aramide, length 130 cm, covered snap fastening, arm and back ventilation and walking pleat, the result will be the following part number:

12014 41130 122 15

* Outside Germany, delivery will take a few days longer.

MODULAR SYSTEM

21 TO WEAR

**HB
PROTECTIVE
WEAR**



JACKET (see pages 99, 103 and 105)

Product line	Part number	Closure	Ergonomic sleeves	Ventilation	On stock
1 CLASSIC KF-3/Z	12003 11080 000 15	Hook&loop	–	–	✓
	12003 110yy 000 15	Hook&loop	–	–	21 TO WEAR®
	12003 110yy 200 15	Quick release	–	–	21 TO WEAR®
2 COMFORT CK-12/Z AW-1/Y	12008 11180 000 15	Hook&loop	✓	–	✓
	120xx 111yy 000 15	Hook&loop	✓	–	21 TO WEAR®
	120xx 111yy 100 15	Snap fastening	✓	–	21 TO WEAR®
3 COMFORT Plus CK-12/Z AW-1/Y	120xx 111yy 010 15	Hook&loop	✓	Sleeves	21 TO WEAR®
	120xx 111yy 110 15	Snap fastening	✓	Sleeves	21 TO WEAR®
	12014 11180 020 15	Hook&loop	✓	Sleeves + Back	✓
	120xx 111yy 020 15	Hook&loop	✓	Sleeves + Back	21 TO WEAR®
	120xx 111yy 120 15	Snap fastening	✓	Sleeves + Back	21 TO WEAR®

Length variants 1 | CLASSIC

Part number	Length of the back
110yy = 11080	80 cm
110yy = 11090	90 cm
110yy = 11000	100 cm

Length variants 2 | COMFORT + 3 | COMFORT Plus

Part number	Length of the back
111yy = 11180	80 cm
111yy = 11190	90 cm
111yy = 11100	100 cm

Order example:

If you like to order the COMFORT Plus heat protection jacket 100 % Aramide, 90 cm length, with hook&loop fastener and ventilations under the arms and on the back, the result will be the following part number: **12008 11190 020 15**

APRON WITH SLEEVES (see pages 98 and 101)

Product line	Part number	Length	Closure	On stock
1 CLASSIC KF-3/Z	12003 71130 000 15	130 cm	Hook&loop	✓
2 COMFORT CK-12/Z AW-1/Y	12008 71110 000 15	110 cm	Hook&loop	21 TO WEAR®
	12008 71130 000 15	130 cm	Hook&loop	✓
	12014 71110 000 15	110 cm	Hook&loop	21 TO WEAR®
	12014 71130 000 15	130 cm	Hook&loop	21 TO WEAR®

BIB APRON (see pages 100 and 101)

Product line	Part number	Length	Closure	On stock
1 CLASSIC KF-3/Z	12003 71131 000 15	130 cm	Tie trap	✓
2 COMFORT CK-12/Z AW-1/Y	12008 71111 000 15	110 cm	Hook&loop	21 TO WEAR®
	12008 71131 000 15	130 cm	Hook&loop	✓
	12014 71111 000 15	110 cm	Hook&loop	21 TO WEAR®
	12014 71131 000 15	130 cm	Hook&loop	21 TO WEAR®

HALF APRON (see page 100)

Product line	Part number	Length	Closure	On stock
1 CLASSIC KF-3/Z	12003 71100 000 15	100 cm	Tie trap	✓
2 COMFORT CK-12/Z AW-1/Y	12008 71080 000 15	80 cm	Hook&loop	21 TO WEAR®
	12008 71100 000 15	100 cm	Hook&loop	21 TO WEAR®
	12014 71080 000 15	80 cm	Hook&loop	21 TO WEAR®
	12014 71100 000 15	100 cm	Hook&loop	21 TO WEAR®

HEAD PROTECTION (see pages 106 and 107)

Product line	Part number	Designation	Ventilation	On stock
1 CLASSIC KF-3/Z	12003 7H007 000 15	Protective hood with shoulder and chest protection	–	✓
	12003 7H007 001 15	Protective hood	–	✓
	12003 7H009 000 15	Helmet cover	–	✓
2 COMFORT CK-12/Z AW-1/Y	12008 71001 000 15	Protective hood with shoulder and chest protection	–	21 TO WEAR®
	12014 71001 000 15	Protective hood with shoulder and chest protection	–	21 TO WEAR®
	12008 71001 001 15	Protective hood	–	21 TO WEAR®
	12014 71001 001 15	Protective hood	–	21 TO WEAR®
	12008 71002 000 15	Helmet cover	–	21 TO WEAR®
	12014 71002 000 15	Helmet cover	–	21 TO WEAR®
3 COMFORT Plus CK-12/Z AW-1/Y	12008 71001 002 15	Protective hood with shoulder and chest protection	✓	✓
	12014 71001 002 15	Protective hood with shoulder and chest protection	✓	21 TO WEAR®

▶ READY TO WEAR



CONFIGURE YOUR PPE YOURSELF ONLINE

**WITH HB READY TO WEAR.
ONE SYSTEM, MORE THAN 1,000 POSSIBILITIES.**

4 articles, 216 colour combinations, 12 equipment variants, 28 sizes. Whether jacket or overall, red or black, with reflective or without, leg pocket or knee pocket: with our online configurator you can easily create your own personalised outfit.

MAXIMUM FLEXIBILITY AND FAST DELIVERY

You can also enjoy a delivery time of just 21 days and an order quantity from just 15 parts per item*. WITH HB READY TO WEAR.

	THREE OPTIONS				PART	COLOURS						
	REFLEC- TIVE STRIPES	KNEE POCKETS	2ND COMBAT POCKET	OR 1 RULER POCKET		BLACK	MEDIUM GREY	DARK BLUE	ROYAL NAVY	RED	YELLOW	
JACKET	<input type="checkbox"/>				YOKE	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
					TORSO/ARMS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
					PIPES	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
TROUSERS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	OR <input type="checkbox"/>	LEGS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
					POCKET PLEAT	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
					PIPES	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
BIB AND BRACE TROUSERS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	OR <input type="checkbox"/>	LEGS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
					POCKET PLEAT	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
					PIPES	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
COVERALL	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	OR <input type="checkbox"/>	TORSO/ARMS/LEGS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
					YOKE + POCKET PLEAT	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
					PIPES	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

* Outside Germany, delivery will take a few days longer. Up to a max. of 60 units. Delivery times for larger quantities are available on request.



Optional:
Reflective stripes



Optional:
Second combat pocket
or ruler pocket

USE OUR **READY TO WEAR** CONFIGURATOR TO DESIGN YOUR OWN PROTECTIVE CLOTHING!

Come and try online for
yourself at:
www.hb-ready-to-wear.com





INSULATION VALUES

INSULATION VALUES COLD PROTECTION

This table shows the performance levels of our TEMPEX® cold protective wear. It shows the duration of use for the relevant clothing in relation to temperature and physical strain. The performance levels are light duty (more static works) and medium duty (works where you move more). The specified values are achieved only if jacket and trousers of the same material construction are worn.



	Part Number	Part	Insulation value / $\frac{m^2 \cdot K}{W}$ R-value		Standing activity 75 W/m ²				Activity with low movement 115 W/m ²				Activity with regular movement 170 W/m ²			
					Air speeds				Air speeds				Air speeds			
					0,4 m/s		3 m/s		0,4 m/s		3 m/s		0,4 m/s		3 m/s	
					8 h	1 h	8 h	1 h	8 h	1 h	8 h	1 h	8 h	1 h	8 h	1 h
CLASSIC 2.0	01174 1K014 000	Jacket order picker	0,428	(B) AP 2 x	3°C	-16°C	10°C	-6°C	-13°C	33°C	-3°C	-20°C	-34°C	-49°C	-20°C	-38°C
	01174 2K012 000	Trousers order picker														
	01174 1K037 000	Ladies' jacket order picker	0,428	(B) AP 2 x	3°C	-16°C	10°C	-6°C	-13°C	33°C	-3°C	-20°C	-34°C	-49°C	-20°C	-38°C
	01174 2K017 000	Ladies' trousers order picker														
CLASSIC	09044 1K048 000	Jacket	0,339	(B) AP 2 x	8°C	-10°C	16°C	1°C	-5°C	-22°C	4°C	-11°C	-22°C	-41°C	-10°	-26°C
	09044 2K024 000	Trousers														
	09044 1K049 000	Ladies' jacket	0,339	(B) AP 2 x	8°C	-10°C	16°C	1°C	-5°C	-22°C	4°C	-11°C	-22°C	-41°C	-10°	-26°C
	09044 2K001 002	Ladies' trousers														
	09028 1K009 000	Jacket order picker with acrylic fur lining	0,344	(B) AP 2 x	8°C	-7°C	15°C	1°C	-5°C	-22°C	3°C	-11°C	-23°C	-42°C	-11°C	-27°C
	09028 2K006 000	Trousers order picker with acrylic fur lining														
	09045 1K000 000	Jacket order picker	0,448	(B) AP 2 x	1°C	-18°C	9°C	-7°C	-15°C	-35°C	-4°C	-22°C	-37°C	-49°C	-22°C	-40°C
	09045 2K000 000	Trousers order picker														
	09045 1K001 000	Ladies' jacket order picker	0,448	(B) AP 2 x	1°C	-18°C	9°C	-7°C	-15°C	-35°C	-4°C	-22°C	-37°C	-49°C	-22°C	-40°C
	09045 2K001 000	Ladies' trousers order picker														
	09045 3K000 000	Coverall order picker	0,411	(B) AP 2 x	4°C	-14°C	11°C	-5°C	-11°C	-31°C	-2°C	-18°C	-32°C	-49°C	-18°C	-36°C
	09045 4K000 000	Coat visitor	0,292	(R) AP 2 x	11°C	-2°C	18°C	5°C	0°C	-16°C	7°C	-6°C	-16°C	-33°C	-5°C	-20°C
	09046 1K012 001	Jacket forklift driver	0,404	(B) AP 2 x	5°C	-12°C	13°C	-3°C	-9°C	-28°C	0°C	-16°C	-29°C	-49°C	-16°C	-33°C
	09046 2K007 001	Trousers forklift driver														
	09046 1K012 000	Jacket forklift driver Plus	0,398	(B) AP 2 x	5°C	-12°C	13°C	-3°C	-9°C	-28°C	0°C	-16°C	-29°C	-49°C	-16°C	-33°C
	09046 2K007 000	Trousers forklift driver Plus														
COMFORT	01183 1K007 002	Jacket	0,391	(B) AP 2 x	5°C	-12°C	13°C	-3°C	-9°C	-28°C	0°C	-16°C	-29°C	-49°C	-16°C	-33°C
	01183 2K008 006	Trousers														
	01183 1K008 001	Ladies' jacket	0,391	(B) AP 2 x	5°C	-12°C	13°C	-3°C	-9°C	-28°C	0°C	-16°C	-29°C	-49°C	-16°C	-33°C
	01183 2K003 003	Ladies' trousers														
	01183 1K005 000	Jacket order picker	0,435	(B) AP 2 x	2°C	-16°C	10°C	-6°C	-14°C	-34°C	-3°C	-21°C	-35°C	-49°C	-21°C	-39°C
	01183 2K002 000	Trousers order picker														
	01183 1K006 000	Ladies' jacket order picker	0,435	(B) AP 2 x	2°C	-16°C	10°C	-6°C	-14°C	-34°C	-3°C	-21°C	-35°C	-49°C	-21°C	-39°C
	01183 2K003 000	Ladies' trousers order picker														
	01183 3K001 000	Coverall order picker	0,443	(B) AP 2 x	2°C	-17°C	9°C	-7°C	-14°C	-35°C	-4°C	-21°C	-36°C	-49°C	-21°C	-40°C
	01183 4K001 000	Coat visitor	0,274	(B) AP 2 x	12°C	-1°C	19°C	6°C	2°C	-13°C	8°C	-4°C	-13°C	-30°C	-3°C	-17°C
	01183 1K013 000	Jacket forklift driver	0,508	(B) AP 2 x	-3°C	-23°C	5°C	-12°C	-21°C	-42°C	-9°C	-27°C	-45°C	-49°C	-28°C	-48°C
	01183 2K010 000	Trousers forklift driver														
	01183 1K018 000	Jacket forklift driver Plus	0,511	(B) AP 2 x	-3°C	-23°C	5°C	-12°C	-21°C	-42°C	-9°C	-28°C	-45°C	-49°C	-29°C	-48°C
HYGIENE	01174 1K007 001	Jacket	0,371	(B) AP 2 x	6°C	-10°C	14°C	-2°C	-7°C	-26°C	1°C	-14°C	-26°C	-46°C	-14°C	-30°C
	01174 2K008 005	Trousers														
	01174 1K005 001	Jacket order picker	0,417	(B) AP 2 x	3°C	-15°C	11°C	-5°C	-12°C	-31°C	-2°C	-19°C	-33°C	-49°C	-19°C	-36°C
	01174 2K008 003	Trousers order picker														
COLD PRO	01174 4K001 001	Coat visitor	0,267	(R) AP 2 x	13°C	0°C	19°C	7°C	3°C	-12°C	9°C	-3°C	-12°C	-28°C	-2°C	-16°C
	01174 15001 000	Jacket	0,420	(R) AP 2 x	3°C	-14°C	11°C	-5°C	-12°C	-31°C	-2°C	-18°C	-33°C	-49°C	-19°C	-36°C
	01174 25002 000	Trousers														

If a cold protection suit is selected from this table for a specific workplace, it must be ensured that the hand and foot coverings also has sufficiently high heat insulation for the ambient temperature that is present and that the face and head are properly protected. The specified values are achieved only if a jacket and trousers of the same construction are worn. The heat insulation may be converted into clo: 1 clo=0,155 m²K/W.

IMPORTANT! TEMPEX® Cold Store garments are classified acc. to DIN EN 342 Category II. Therefore it is not allowed to wear them at temperatures below -49°C.

STANDARDS



IEC 61482-2

IEC 61482-2:2009 (preceding standards: EN 61482-1-2 and ENV 50354)

Protective clothing against the thermal hazards of an electric arc

This Type of protective clothing is intended to protect the wearer against thermal effects of a defined electric fault arc according to the tested protection level e.g. protection class.

The Standard defines general requirements and requires an electric arc flash test. The material and garments tests are carried out either according to IEC 61482-1-1 (determination of the ATPV and the Elim value) or IEC 6148-1-2 (Determination of the arc protection class APC1/APC2). The tested protective clothing does not replace electrically insulating protective clothing such as clothing in accordance with EN 50286:1999, "Electrically insulating protective clothing for work on low-voltage installations". Complete personal protection also requires suitable protective equipment such as safety helmet/visor, protective gloves etc.



EN ISO 11611

(preceding standard: EN 470-1)

Protective clothing for use in welding and related processes

This Type of protective clothing is intended to protect the wearer against weld spatter (small splashes of molten metal), short-term contact with flames as well as radiant heat from the electric arc. Under normal welding conditions, it offers limited electrical insulation against electric conductors of up to 100 V DC. This standard sets out two classes with specific performance requirements (class 1 is for lower requirements, class 2 for higher requirements).



EN ISO 11612

(preceding standard: EN 531)

Clothing to protect against heat and flame

This international standard specifies the minimum requirements for clothing protecting against heat and/or flames. In a wide variety of fields of application, the wearer can also be exposed to convective, radiant or contact heat, as well as splashes of molten metal. Within the standard, letters A-F define the performance levels relating to the protective properties listed above.



EN 1149-5

(preceding standard: EN 1149-5)

Electrostatic properties - Material performance and design requirements

This standard specifies the requirements to be met by the materials used in and the design of electrostatically conductive protective clothing forming part of a fully earthed system to avoid ignitable discharge. The antistatic function is defined as minimising the risk of flammable discharge (explosion). The requirements may not be sufficient in a combustible atmosphere

enriched with oxygen. Protective clothing certified by this standard is not considered protection against mains voltage.



EN 61340

Protection of electronic devices from electrostatic phenomena

Protective clothing with this standard is suitable for the manufacture of

products, which are sensitive to discharges of 100V or more. Persons with ESD protective clothing are therefore protecting products during the manufacturing process from electrical discharges, which can happen with clothing that is not suitable for EPA, e.g. through friction or electrostatic induction (magnetic field, field effects) and/or material separations, and are therefore preventing damage to the component.



EN 13034 Type 6

Protective clothing against liquid chemicals - Performance requirements for chemical protective clothing offering limited protective

performance against liquid chemicals

This standard specifies the minimum requirements to be met by protective clothing against chemicals offering limited protective effect, including reusable protective clothing. Protective clothing against chemicals offering limited protective effect is for use where there is a possibility of exposure to minor chemical spraying, liquid aerosols or low-pressure spattering.



EN ISO 20471

(preceding standard: EN 471)

Warning clothing - Test methods and requirements

EN 20471 sets out the requirements to be met by protective clothing which visually highlights wearers. This is done to make them clearly visible in dangerous situations under all light conditions during the daytime and when vehicle headlights are shone at them in the darkness. This standard specifies performance requirements to be met by the protective clothing in terms of colour and retro-reflection, along with minimum surface dimensions and requirements to be met by materials used in the smallest possible garment size.



EN 17353

Protective Wear - Equipment for enhanced visibility in medium risk situations

This standard specifies the requirements for enhanced visibility equipment for clothing and products capable of visually signalling the presence of the wearer. Enhanced visibility equipment is intended to provide conspicuity to the wearer's presence in medium risk situations in all daylight conditions and/or when illuminated by vehicle headlights or searchlights in the dark. Performance requirements are included for colour

and retroreflectivity, as well as for the minimum area and arrangement of materials in the protective equipment.



EN 343

Protective clothing - Protection against rain

Specifies requirements and test methods for materials and seams

used in clothing to protect against precipitation (e.g. rain, snow-flakes), fog and ground humidity. Waterproofness and resistance to water vapour are the properties that must be tested and indicated on the label. The various classes for resistance to water vapour provide an indication for the recommended wearing time in different ambient temperatures.



EN 13758-2

Solar UV protective properties; EN 13758 Part 1: Method of test for apparel fabrics; EN 13758 Part 2: Classification and marking of apparel

The European standard 13758-1 defines the method for determination of permeability of ultraviolet solar radiation for textiles; EN 13758-2 sets out the classification and identification of the clothing. As solar radiation causes skin diseases, only covered surface areas are protected of Type UV-A and UV-B radiation.



EN 14058

Protective clothing - Garments for protection against cool environments

This European standard specifies the requirements and test methods for wear behaviour of garments for protection against cool environments. Use of tested garments in environments with an air temperature of -5 °C and higher. Identification should include classification of overall heat transfer resistance.



EN 342

Protective clothing - Ensembles and garments for protection against cold.

This standard defines the test methods and performance requirements for protective clothing against cold of -5 °C or lower. It tests the thermal insulation and air permeability of the clothing. The test result states how long the wearer of the protective clothing can remain at certain temperatures when stationary or when performing tasks involving small or moderate amounts of movement. Insulation values TEMPEX® Cold Protection: Please note our insulation values table for our TEMPEX® cold protective clothing on page 225. It shows the duration of use of the relevant garments in relation to physical performance and temperature.



EN 511 Gloves as protection in cold environments

This standard defines the test methods and performance requirements for gloves used as protection in cold environments. It measures the insulation performance of the material in the event of contact with a cold object, resistance to the gradual permeation of cold, and thermal resistance in the event of direct contact with a cold object. The 3-digit code next to the standard pictogram indicates the performance levels, where 0 is the weakest and 4 is the best performance. The water resistance is defined with two performance levels: 0 = water permeation after 30 minutes, 1 = no water permeation after 30 minutes.



EN 15384 Protective clothing for the fire brigade for wildland firefighting

This European Standard specifies methods of test and minimum performance requirements for protective clothing, designed to protect the wearer's body, except the head, hands and feet, to be worn in wildland firefighting and associated activities. This clothing is not intended to provide protection during fire entrapment.



EN 407 Gloves as protection against thermal risks

Gloves tested in accordance with this standard provide protection against heat and/or flames. The standard provides six testing options: combustion behaviour, contact heat, convective heat, radiant heat, small splashes of molten metal and larger quantities of molten metal. The actual level of protection depends on which test is carried out during certification and which performance level is achieved, where 1 is the lowest and 4 is the highest. "X" means not tested, "0" means below the minimum requirement.



EN 388 Gloves as protection against mechanical risks

This standard defines the test methods and performance requirements for gloves used as protection against mechanical risks. It provides four testing options: abrasion resistance, cut resistance, tear propagation force and penetration force. The actual level of protection depends on which test is carried out during certification and which performance level is achieved, where 1 is the lowest and 4 (resp. 5) is the highest. "X" means not tested, "0" means below the minimum requirement.



EN ISO 20345 Personal protective equipment – safety footwear

This standard defines basic requirements and voluntary additional requirements for safety footwear for general purposes such as mechanical risks, slip resistance, thermal risks and ergonomic features. The letters SB and S1 to S5 indicate the requirements that have been met.



EN 166 Personal eye protection

This standard defines functional requirements for different Types of personal eye protection equipment and includes basic requirements for all eye protection equipment such as the size of the minimum field of view, flammability, UV resistance or protection against dust, splashes of molten metal and electric arcs. This standard applies to all Types of personal eye protection equipment for protection against a range of hazards encountered in industry or in laboratories.

EN 171 Personal eye protection/infrared protective filter

This standard defines protection levels and transmission requirements for infrared protective filters. The filters defined in this standard are not suitable for the (in)direct observation of electric arcs.



EN 397 Industrial hard hats

Industrial hard hats are primarily intended to protect the wearer against falling objects and their consequences, such as brain injuries and skull fractures. This European standard defines general requirements, test methods and test conditions as well as requirements pertaining to the protective function (e.g. shock absorption and penetration resistance) of industrial hard hats.

EN 50365 Electrically insulating helmets for use on low voltage installations

This standard defines the requirements for electrically insulating helmets for protection when working on or near parts under alternating voltage of up to 1000 V (AC) or direct voltage up to 1500 V (DC). If it is used in combination with other electrically insulating PPE, the helmet should prevent dangerous electric current passing through the head as well as electric shocks. All helmets must also meet the requirements according to EN 397.

Hupf 2 Manufacturing and testing description for universal protective clothing for firemen (Part 2 – Firemen's trousers)

Hupf 2 specifies the minimum requirements to achieve sufficient basic protection for all firemen to protect them against general risks of firefighting service. It applies to the firemen's protective clothing described therein and contains a revision of safety requirements based on the current EN ISO 11612:2015 with regard to materials, sizes, design and marking, as well as adapted test methods.

The firemen trousers shall comply with the applicable EN ISO 11612 "Protective clothing - Clothing for protection against heat and flame", the applicable EN ISO 13688 "Protective clothing, General requirements" and this "Manufacturing and testing description for a universal protective clothing for firemen (HuPF)". The protective clothing for firemen is intended to protect the wearer from the hazards of firefighting activities together with the other personal protective equipment required in each case.

All products pictured in this catalogue are certified according to the product specified standards.

Products with reflective stripes can provide better visibility. They are not automatically certified according to



EN ISO 20471

or



EN 17353

but only if the product is labelled accordingly.

▶ SIZES AND CARE

MEN

Unisex	3XS	2XS	XS		S		M		L		XL		2XL		3XL		4XL		5XL	
Regular sizes			40	42	44	46	48	50	52	54	56	58	60	62	64	66	68	70		
Long sizes men			86	88	90	94	98	102	106	110	114	118	122	126	130	134	138	142		
Short sizes men			20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35		
Double sizes			38/40		42/44		46/48		50/52		54/56		58/60		62/64		66/68		70/72	
Long double sizes			82/86		88/90		94/98		102/106		110/114		118/122		126/130		134/138			
Shirt collar width			35/36		37/38		39/40		41/42		43/44		45/46		47/48		49/50		51/52	53/54

WOMEN

Unisex	3XS		2XS		XS		S		M		L		XL		2XL		3XL		4XL			
Regular sizes			30	32	34	36	38	40	42	44	46	48	50	52	54	56	58	60				
Long sizes ladies					72	76	80	84	88	92	96	100	104	108								
Short sizes ladies					18	19	20	21	22	23	24	25	26	27								
Double sizes		28/30	32/34		36/38		40/42		44/46		48/50		52/54		56/58							

VEST

Regular sizes	1	2	3	4		
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UNDERWEAR

Regular sizes	4	5	6	7	8	9	10		
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HEADGEAR

Head Cover Cold Protection & Cleanroom	0/54	1/56	2/58	3/60	4/62	5/64	6/66	7/68	8/70						
Visor Cap Cleanroom	1/54-56	2/57-59	3/60-63												

BELTS

Belt length	90	100	110	120	130	140	150								
-------------	----	-----	-----	-----	-----	-----	-----	--	--	--	--	--	--	--	--




GLOVES

Cold Protection	6	7	8	9	10	11	12								
Heat Protection						11	12								

SOCKS, SHOES & BOOTS

Socks		37/38		39/40		41/42		43/44		45/46		47/48			
Shoes/Gaiters	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50

Note: Sizes of older models may correspondingly deviate from these values.

-  Sizes available from stock.
-  Sizes produced after receipt of order; usually not on stock. Please contact our sales staff for more information.
-  Sizes below each other correspond to each other, see framed example size M.



The 21 TO WEAR® icon indicates products which are available via our high-speed delivery service 21 TO WEAR® within 21 days. Please find more information at www.21towear.com

CUSTOMISED SIZES

HB Protective Wear offers a comprehensive selection of sizes for its collections. However, if you or your staff members require a customised size not included in the stated sizes, we will be pleased to manufacture such garment to your stated body dimensions.



WASHING

The numbers stated in the wash tub correspond to the maximum washing temperatures and must not be exceeded. The single bar below the wash tub requires mild treatment with reduced washing amount and low speed during spin-drying. The double bar means very mild treatment with reduced mechanical load (e.g. wool).



BLEACHING



TUMBLE DRYING

The points state the drying level in the tumble dryer.



IRONING

The points state the temperature ranges of adjustable irons.



PROFESSIONAL DRY CLEANING

The letters are intended for the textile care person. They state the applicable solvents. The bar below the circle requires limitation of mechanical load, moisture addition and/or temperature when cleaning.



PROFESSIONAL WET CLEANING

This symbol identifies articles that can be treated by wet cleaning procedures. It is stated in the second line below the symbol for dry cleaning. The bars below the circle require limitation of mechanical load during wet cleaning. The double bar identifies an even milder procedure.



NOTE ON FLEECE MATERIAL

Fleece material may produce lint initially, depending on the design. This will stop after a few washes.

NOTE ON FLUORESCENT COLOURS

Fluorescent colours which are constantly exposed to UV radiation will fade more quickly. High-visibility clothing should therefore not be stored in direct sunlight.

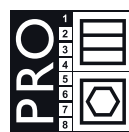
NOTE ON TEMPEX® COLD PROTECTION GARMENTS

In order for you to be able to take advantage of your high-quality protective equipment for as long as possible, it is important to keep the following instructions in mind.



- Please hang up the clothing after each use and dry it in a sufficiently heated and well-ventilated room.
- Avoid pressing the garments during storage – e.g. in narrow lockers.
- Never hang or lay the clothing onto hot heat sources.
- The garments should never be exposed to temperatures above +50 °C.
- We absolutely recommend regular professional cleaning or washing according to the instructions on the label of the garment.

THE PRO LABEL: GARMENTS SUITED FOR INDUSTRIAL LAUNDRY



HB products with this label are suitable for industrial laundry and meet the requirements of ISO 15797 for washing and drying processes in industrial laundry. Only textiles that are resistant to the conditions of these care procedures can be labelled with a care symbol for industrial laundry.

Drying symbols:



Suitable for drum drying (tumbler)



Suitable for tunnel finisher

Washing symbol:



The numbers refer to the eight ISO 15797 washing processes

▶ LEGEND



MULTI-RISK PROTECTION

Collections and items marked with "Multi-Risk" are certified according to minimum 4 EN standards. Therefore these are suited for work areas with multiple application fields.



FEMALE CUT

Tailored with fitted waist and especially made for women.



HIGH-SPEED DELIVERY SERVICE

These products are available in 21 days (Germany). Our PPE service for urgent needs. Abroad delivery takes few days more.



LIGHT-WEIGHT FABRIC

If you see this icon the product line is manufactured with extra-ordinarily light-weight fabrics.



GARMENT WEIGHT

The garment weight tells you how much exactly weighs the item, based on a medium size (M or 52).



DEEP FREEZING COLD STORE PLUS

Clothing for low-movement tasks at temperatures down to -49 °C



DEEP FREEZING COLD STORE

Clothing for high-movement tasks at temperatures down to -49 °C



COOLING CHILLROOM

Clothing for work in moderately cold conditions



READY TO WEAR

This collection can be configured individually (216 colour combinations, 12 equipment versions) and will be with you within 21 days.



SUSTAINABILITY

Products with this icon are made of sustainable eco-friendly materials like organic cotton or recycled PET bottles.



ERGONOMIC DESIGN

Product line with ergonomically optimised cut for more freedom of movement.



BREATHABILITY

This product offers a pleasant wearing and climate comfort thanks to its fast drying material and a quick moisture transport.

ATPV = Arc Thermal Performance Value:

Thermal characteristic value for the impact energy on a textile material at which there is a 50 % possibility of second-degree burns.

EBT50 = Energy Breakopen Threshold:

Energy threshold at which there is a 50 % chance that the textile material will break open.

ELIM = Incident Energy Limit

Impact energy limit: Mean value of three determined values that lie below the Stoll curve (basis is the ATPV) and are additionally not broken up (basis is the EBT50). Protects the wearer 100 % compared to ATPV and EBT50.

All values – ATPV and EBT50 – are specified in cal/cm² or kJ/m² = amount of heat per unit area and show the load limits of the material or the material layer structures. The higher the value, the better the protection.

HAF = Heat Attenuation Factor:

In addition to EBT and ATPV, the heat attenuation factor, the HAF value, is determined. It indicates the percentage of heat that can be kept out when it strikes a flame-retardant material. Specified in %.

4kA – 7kA/4kA – 7kA

Our arc fault protective clothing is embroidered on the outside with these kilo-ampere (kA) specifications, so that the wearer can directly identify which protection the garment provides.

- 4kA: the garment has class 1 arc fault protection all round.
- 7kA/4kA: the garment has class 2 arc fault protection in the 2-layer areas (jacket front, sleeves and trouser front).
- 7kA: the garment has arc fault protection class 2 all around.

Reflective stripes

Products with reflective stripes are not automatically certified according to EN ISO 20471 or EN 17353, but only if they are marked accordingly in the label.



EN ISO 20471



EN 17353

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