

GENERAL CATALOGUE 2022

PROTECTIVE WEAR



70 YEARS OF PROTECTION AND SUSTAINABLE GROWTH

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 &
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COLD
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COLD PROTECTION

TECHNICAL ASSISTANCE, RESCUE AND DAY SHIFT WEAR FOR FIREMEN

FIRE &
RESCUE
SERVICES



ESD
ELECTRO-
STATIC
DISCHARGE



ESD PRODUCT PROTECTION

CLEANROOM AND DUST PROTECTION

CLEANROOM
& DUST



EDITORIAL

HB PROTECTIVE WEAR: WE HAVE PPE IN OUR DNA – FOR 70 YEARS.

Dear Sir or Madam,
Dear business partners and customers,

The past two years have also marked a turning point in the history of HB. The drastic effects of the pandemic have presented us with unprecedented challenges and, like many other companies, demanded everything of us. But since every crisis is also an opportunity, we have used this time to develop and prepare ourselves in the best possible way for the time after the crisis.

Despite the ongoing pandemic and global political upheavals, the year 2022 represents a special point in the company's history for us. Following the founding of the company by my father on July 1, 1952, this year we can proudly look back on **70 successful years** entirely dedicated to PPE.

As the only German clothing manufacturer, we have focused exclusively on the development and production of protective clothing from the very beginning. For many years, we owe our **market-leading position** to this unique experience and our extensive expertise in standards and manufacture.

What we have achieved fills us with pride, and looking back at the success factors of the past 70 years has inspired us to enter the next decade with a revolutionary **new visual language**. Following a disruptive approach, we place PPE in a completely unusual context. The background is formed by special German Westerwald motifs that stand for the roots of our company, our connection to the region, our commitment to sustainable business and our responsibility for nature and environment.

And as always with HB Protective Wear, our own employees are personal ambassadors as models for the success of the last 70 years. They represent all of our employees, who work day after day with great ambition and passion to provide our customers with the best possible quality and the optimal solution for protection against specific hazards in the workplace.

In the new catalogue for our anniversary year, we naturally also present a whole range of new collections and products:

With the **TEMPEX® TREME-HEAT** collection, we offer wearers modern metallized heat protection in combination with an even more improved and flexibly combinable modular system, which is complemented by a completely renewed glove range.

In the arc fault segment starting on page 22, the successful and versatile **HB-MODarc&vis®** collection is a focal point. With this comprehensive multi-risk range, we offer the right solution for demanding and changing work applications – whether indoors or outdoors.

The new **Naptex® 4.0** collection continues the successful history of our Naptex® product line. After years of development, we are pleased to finally introduce this premium product for the ESD sector. Specially developed for use in industrial laundries, the collection offers outstanding ESD performance combined with high wearing comfort over the lifetime of the product – documented by the Hohenstein label for special breathability. Read more on page 197.

Also new in the catalogue: Our three-piece **Technical Rescue combination** for help and rescue missions, which we present on page 178. Parka, inner fleece and trousers perfectly match to each other, with high-quality manufacture and reflective stripes, equipped with 12 pockets and extremely hard-wearing.

And of course, protective clothing for HB has also been female for many years. That is why we also offer ladies' garments for 25 collections from 6 product segments – PPE solutions with women's power.

Last but not least, I would like to take this opportunity to **thank** all our customers and partners who have remained loyal to us even in these turbulent times.

And now I hope you enjoy reading this issue, and stay healthy! In keeping with our brand promise: **"BE SAFE. WE CARE."**

Klaus Berthold

CEO
Owner of HB Protective Wear

HB
PROTECTIVE
WEAR



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HB PROTECTIVE WEAR

SUSTAINABLE PROTECTION IS OUR BRAND CORE

Since HB was founded 70 years ago, we have grown continuously. With protective clothing that sets standards throughout the industry. With sustainable corporate decisions that we have always made in the interests of our employees and partners. And with increasing success: it is not for nothing that we may call ourselves for many years the market leader for protective clothing in Germany.



We are strongly connected
to the sea turtle
through our logo,
but also as sponsor
of a conservation programme.



HB PROTECTIVE WEAR

QUALITY IS THE MEASURE OF ALL THINGS FOR US



For our customers, HB quality means +++ maximum safety +++ experts who know their craft +++ optimum support in selecting and finding the right product +++ maximum confidence in decision-making +++ the good feeling of getting the best quality

If you want to be the market leader, you have to be the quality leader – this motto has always determined our corporate behaviour. That's why all our processes are focused on quality. Highly qualified experts who are familiar with the latest PPE requirements advise and support our customers in their product selection.

WE HAVE PPE IN OUR DNA

As the only manufacturer in Germany, we have focused on the development and production of protective clothing from the very beginning. We know the requirements, work tirelessly on our expertise and are on a par with current developments.

- active participation in textile, research and standardisation bodies and committees to ensure our competence in standards, materials and production.
- co-operations with textile universities
- regular internal trainings for HB employees

THE RIGHT PRODUCT FOR EVERY NEED

It is our claim to offer every customer the protective clothing that meets his individual profile of requirements. In addition to our comprehensive and highly differentiated product range, we also implement special requests. We provide our customers with:

- the largest portfolio of protective clothing on the market
- personal advice meeting the individual demands
- precise information from our databases on material, function and care
- wearing and material tests such as pour-over tests
- implementation of the customer's CI in individual collections according to the PPE standards
- innovative individualisation of PPE through unrivalled offers such as READY TO WEAR and our modular system for metallised heat protection

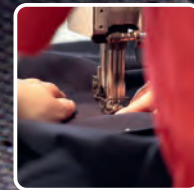
FIRMLY ROOTED IN THE REGION

For us, quality is inconceivable without a high degree of consistency, trust and a down-to-earth attitude. It is not for nothing that we have been based in the German Westerwald for 70 years – with firm principles.

- own production facilities at the headquarters in Thalhausen where we manufacture samples, small series and finishing
- apprenticeship training of junior staff in four professions
- offers for our employees to promote work-life balance and health
- low fluctuation keeping the knowledge in the company

HB PROTECTIVE WEAR

OUR DEMANDS EXCEED THE STANDARDS' REQUIREMENTS



HB customers receive from us +++ quality above the PPE standards +++ high-quality, visually impeccable and durable products that withstand even the high demands of washers and leasers +++ desirable safety

The applicable PPE standards provide the framework for our product development. At the same time, we additionally feel committed to the values of a medium-sized company such as thoroughness and reliability. These demand even more of our products, realised through multi-stage quality assurance.

OUR RAW MATERIALS ARE THOROUGHLY TESTED

Extensive in-house testing ensures that the raw materials for our products are in perfect condition.

- material approval and quality assurance process in accordance with ISO 9001
- ignition tests according to EN ISO 15025 in our flammability test chamber
- defined receiving inspections such as fabric weight or colour measurement
- washing and drying according to industry standards ISO 15797 and ISO 6330

ALL GARMENTS UNDER CONTROL

Also our garments are subjected to thorough in-house tests. When they leave our company to the customer, they previously have passed through the following stages:

- 100 % manual final inspection
- our numbered and documented TURTLE TEST®
- a two-stage AQL control (Acceptable Quality Limit Control), done at our headquarters and checking whether the series production corresponds to the samples and whether all standard specifications have been met during the manufacture
- ESD conductivity tests

HIGHEST QUALITY DOWN TO THE LAST DETAIL

But we understand special quality to be more than just material and garment tests. For us, our particular high demands also include high-quality manufacturing processes such as:

- individually neaten and bound edges
- ESD garments manufactured with triple conductive thread
- modern 3D product development for a better fit

HB PROTECTIVE WEAR

WE TAKE TOP PERFORMANCE INTO SERIES PRODUCTION

Designing innovative product concepts and implementing individual customer demands is just as natural for us as reliably handling large orders. With a production capacity of more than 1.5 million garments per year, we need clearly defined and transparent processes. Additionally, our high-performance logistics enable us to react quickly and flexibly to all kinds of challenges.

UP-TO-DATE SERIES PRODUCTION

There are many parameters and processes that have to be right for a production of our size to run smoothly – from monitored production standards and uniform control systems to a clearly regulated sample approval for series production.

- regular product and process audits in our production sites
- AQL control in all facilities according to DIN ISO 2859-1
- consistently reproducible parameters
- documented sample approval
- own technicians for the abroad production, trained and certified in Germany
- traceability of every HB product throughout the entire manufacturing process

DELIVERED TO COMPLETE SATISFACTION

Our logistics processes are also state of the art. Regardless of whether the usual assortments have to be transported to the customer in large quantities, or products that are not available in stock have to be delivered in small quantities – we are on the spot punctually and reliably.

- short delivery times thanks to our warehouse with more than 2,300 m² and space for up to 500,000 garments
- good and long-standing co-operation with our production partners
- dynamic and flexible production planning
- production sites concentrated mainly in Europe
- short and flexible transport routes
- if something is not in stock: delivery within three weeks in small quantities, thanks to our unique high-speed delivery service 21 TO WEAR®



HB offers the customer +++ reliable and consistently high quality in series production
+++ product responsibility in one hand from development until shipping +++ transparency,
credibility and trustworthiness +++ speed, flexibility and security of supply

HB PROTECTIVE WEAR

WE OFFER BOTH: SERVICE AND PRODUCT QUALITY

Service and courtesy are integral parts of how we consider ourselves as a company. And they do not stop when the contract is signed. After all, we see ourselves as the customer's partner and support them with distinctive advisory skills, which they have come to appreciate in us.

The name HB stands for +++ reliable advice +++ customer-oriented services also after purchase +++ seamless communication: we keep our customers informed about everything concerning their PPE

SERVICE FIRST – EVEN AFTER PURCHASE

Our thinking is based on partnership. We demonstrate this after the purchase by supporting our customers with customised service on many occasions.

- convenient warehousing for the customer thanks to our generous storage capacities.
- before delivery to the customer: Sorting garments according to the wearer and providing them with emblems and badges according to the customer's wishes
- proactive advice and personal support
- continuous training of our employees by participating in PSA committees in the textile industry, standardisation bodies, research and textile services.



HB PROTECTIVE WEAR

WE ASSUME SUSTAINABLE RESPONSIBILITY

HB customers buy our products +++ with the good feeling
that our company takes care of employees and society

A responsible and sustainable approach to resources, employees and social issues is one of the central duties of our company. With our Code of Conduct, we ensure consistent and fair working conditions, and we also assume responsibility beyond this.

MAKING OUR EMPLOYEES FEEL APPRECIATED

Motivated people who identify with their work are the capital of every company. It is no wonder that the well-being of our employees is close to our hearts and that we do a lot to ensure that they are satisfied with their job:

- work & family balance through flexible working hours and a company-owned free day care centre
- internal and external training and coaching opportunities
- employee participation in the strategic alignment of the company
- health promotion through the company's own free fitness studio

COMMITMENT TO COMMUNITY AND SOCIETY

Corporate social responsibility is a much-discussed topic, especially in the textile industry. Through our Code of Conduct, we have created reliable action rules that must also be adhered to by our production facilities and by our suppliers. In addition, we have been involved in charitable work for many years now.

- regular social audits ensure that our products are manufactured under fair conditions
- social commitment on an international scale: our production partners receive bonuses which they use for charitable purposes on site
- social commitment on a regional level: we are specifically involved in charitable institutions in our region and regularly support them with donations

HB PROTECTIVE WEAR

WE PROTECT NOT ONLY PEOPLE BUT ALSO THE ENVIRONMENT

The basis of our success is a corporate philosophy that reflects the best traditional values of a medium-sized company. This also includes respect for the environment and its resources – so that our customers can buy and wear our products with a clear conscience.



HB customers buy our products +++ with the good feeling that our company is facing up to its responsibility for the environment

SUSTAINABLE ENVIRONMENTAL MANAGEMENT

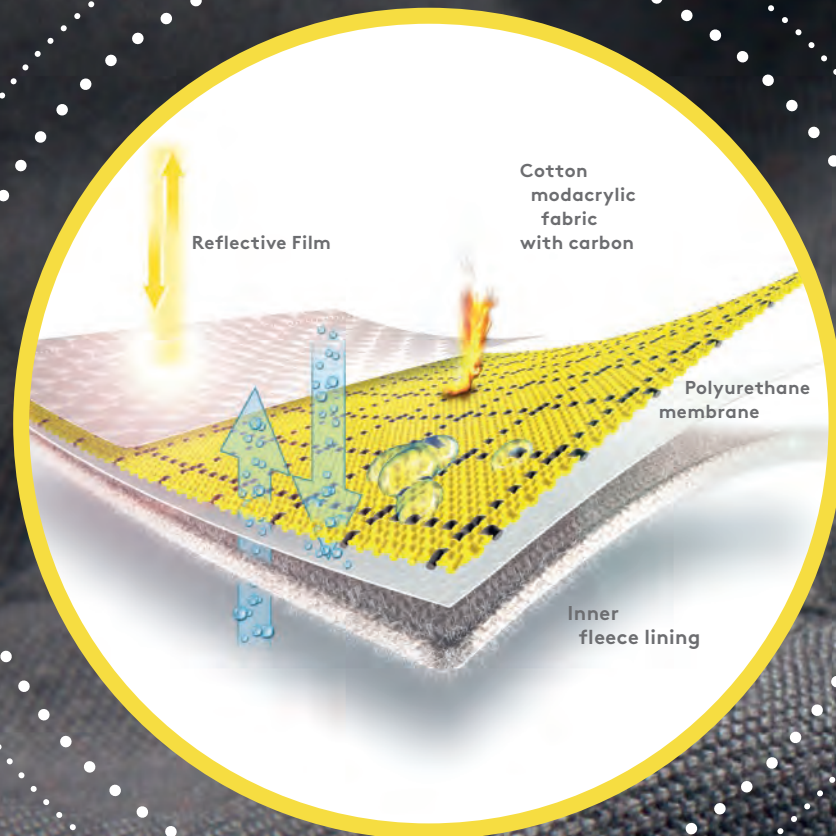
Resource and environmentally conscious behaviour is permanently incorporated into our production processes. And no process is ever complete: Because we are constantly thinking about where and how we can act more sustainably and improve.

- sustainable use of resources by using high-quality materials and careful production of long-lasting protective clothing that can withstand many uses and washing cycles
- products made from sustainable and environmentally friendly materials such as organic cotton and recycled PET bottles
- storage of garments mainly in PP boxes instead of plastic bags
- reusable containers for the transport of goods – a circular effect that makes product packaging largely superfluous
- Up-cycling of leftover materials and accessories through our trainee project by making backpacks, mobile phone cases, glasses cases, key rings or tablet and laptop bags
- protection of the green sea turtle: we have been committed to the preservation of biodiversity on our planet by supporting a turtle protection programme for many years

HB PROTECTIVE WEAR

IMMUNE TO MANY DANGERS: MULTI-RISK PROTECTION FROM HB

Our working environment is becoming more and more complex, while the variety of tasks in individual workplaces is increasing. Multi-Risk PPE makes sense in many cases because it can protect against numerous risks. However, you should bear in mind that complete protection also involves compromises, because the more standards are met in a qualified manner, the heavier and more expensive the fabric usually becomes and the more complex its manufacture is.



Hightech protection to every detail

The high protective function of our multi-risk PPE is achieved through perfectly combined materials.

ONE RISK RARELY COMES ALONE

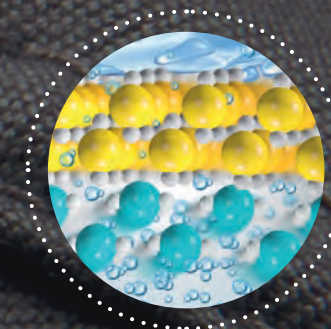
The decisive factor in choosing the right protective clothing is therefore not so much that it meets as many standards as possible as that it corresponds to the specific work situation. Whether you need a "generalist" or a "specialist" always depends on the individual case, which we clarify together with the customer. For this reason, our multifunctional products in this catalogue do not form a separate product category, but are instead integrated into the individual product segments – easily recognisable by the Multi-Risk logo.

- **HIGHLY VISIBLE:** The special surface structure of the attached retroreflective Reflective Film directly reflects the light back to its source
- **FLAME-RETARDANT:** Combustion properties of a material are controlled by chemical fibre configuration and design. Targeted removal of energy inhibits the combustion process and control pyrolysis
- **ANTISTATIC:** The antistatic core integrated into the yarn ensures high discharge capability and prevents electrostatic charging of garments
- **HIGHLY INSULATING:** Material design and volume allow for very good heat insulation. External heat energy is stopped, and the escape of body heat is prevented
- **BREATHABLE:** The heavy-duty polyurethane membrane has a water- and wind-repelling effect
- **COMFORTABLE:** The soft inner fleece conforms to the standards, allows high wearing comfort and has a heat accumulating effect



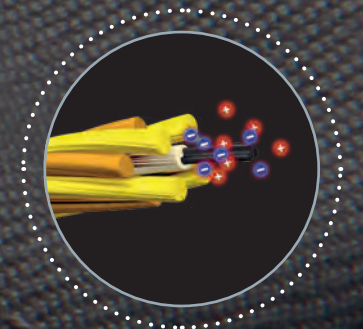
Pictograms

All of our tops feature standards pictograms that depict the protective properties of our certified PPE.



Details of polyurethane membrane

Two layers of water-absorbing (bottom) and water-repelling (top) molecules enable liquids transport from inside to outside.



Yarn details with carbon fibre

Cotton and modacrylic fibres plus Polyamide fibre with carbon core.

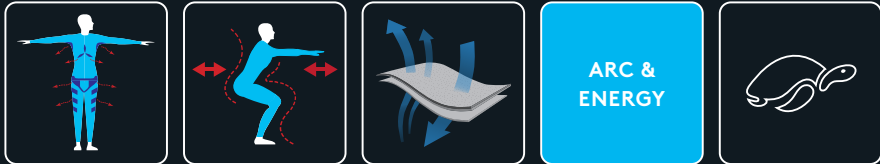
ARC & ENERGY

BECAUSE NOT EVERYONE WEARS
THE RIGHT DRESS BY NATURE

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.



HB-BodySafe is a certified flame-retardant underwear that usefully supplements PPE clothing and increases its protective performance. Thanks to body mapping, the different requirements of the various body zones are taken into account. Breathable and with an optimal fit. Specially developed for use under PPE cat. II and III PPE.



ITEM	COLOUR	COLOUR NO.	COLOUR NAME				SIZES
1 , 2		461	blackgrey	IEC 61482-2 APC 1	EN ISO 11612 A1+A2/B1/C1/F1	EN 1149-5	S-M, L-XL, 2XL-3XL

1|





Body-Mapping: Knitted transpiration zones



High breathability due to the fast drying material

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

SHIRT UNDERWEAR 4kA
Arc flash class 1
Part Number: **01261 76021 000 461**

Seamless and close-to-body functional underwear • round neck • raglan arms • knitted flex-zones at waist, upper arms and front • knitted transpiration zones under the arms, on the back and at the front for maximum humidity transport.

2|



1 and 2|

Seamless quality



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

TROUSERS UNDERWEAR 4kA
Arc flash class 1
Part Number: **01261 76022 000 461**

Seamless and close-to-body functional underwear • integrated and highly elastic waistband, front without fly • knitted flex-zones at thigh and hollow of the knee • knitted transpiration zones at the waistband and between the legs for maximum humidity transport.

MATERIAL: 68 % VISCOSE FR, 16 % META-ARAMIDE, 13 % MODACRYLIC, 2 % ELASTANE, 1 % CARBON
FABRIC WEIGHT: approx. 200 g/m²
FIELDS OF APPLICATION: To complete your personal PPE against arc flash, heat and flames for best possible protection

Soft, safe and comfortable: This permanently life-long flame-retardant cotton fabric is extraordinarily soft and provides you with a high wearing comfort. Westex UltraSoft® collection articles offer efficient protection against Arc Flash as well as against liquid metal splashes and flames.



ITEM	COLOUR	COLOUR NO.	COLOUR NAME				REGULAR SIZES
1, 3		2027	royal/navy/red	IEC 61482-2 APC 1	EN ISO 11612 A1+A2/B1/C1/E3/F1	EN ISO 11611 Class 1 A1+A2	46-58 & 94-110
2		41	royal				



JACKET 4kA
Arc flash class 1
Part number: **01063 10049 000 2027**
Garment weight: approx. 765 g

Three-coloured • front and back yoke with piping • turn-down collar • closure band with snap fasteners covered on both sides • 2 front pockets and 2 side pockets, each with flap and covered snap fastener • wristband with let-in piece and adjustable via covered snap fastener • standard pictograms on the front.



TROUSERS 4kA
Arc flash class 1
Part number: **01063 20029 000 41**
Garment weight: approx. 710 g

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

BIB AND BRACE TROUSERS 4kA
Arc flash class 1
Part number: **01063 50002 016 2027**
Garment weight: approx. 870 g

Three-coloured • stretch braces with clamp-on clips • button fly • bib with rounded border with piping and outer pocket with flap and covered snap fasteners • 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 • side access on the left with buttoning • additional knee reinforcement.

MATERIAL: 88 % COTTON, 12 % POLYAMIDE ·

ATPV VALUE: 16.0 cal/cm² · 669.8 kJ/m² · **HAF VALUE:** 84.0 % · **FABRIC WEIGHT:** approx. 340 g/m² ·

FIELDS OF APPLICATION: Liquid metal works, energy suppliers, electric industry and installation, electricians

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.



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.

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



JACKET 4ka
Arc flash class 1
Part number: **01128 10134 020 3026**
Garment weight: approx. 1,240 g

Three-coloured • stand-up collar • front zip fastener with attached panel 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 224) and at www.hb-ready-to-wear.com

These colours are available:

BLACK

MIDDLE GREY

DARK BLUE

ROYAL

RED

YELLOW



COVERALL 4ka
Arc flash class 1
Part number: **01128 30014 050 3026**
Garment weight: approx. 1,590 g

Three-coloured • turndown collar • front edge with covered press stud fastening on both sides • 2 patch breast pockets with flap and covered snap fasteners • 1 inside breast pocket with hook and oop 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.

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 section for 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

ATPV VALUE: 17.3 cal/cm² · 724.3 kJ/m² · **HAF VALUE:** 84.1% · **FABRIC WEIGHT:** approx. 360 g/m²

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

Our HB-ArcSelect® 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	PLY	COLOUR	COLOUR NO.	COLOUR NAME					REGULAR SIZES
1	-		41	royal					37/38 – 47/48
			45	navy					
			52	medium grey					
			22	orange					
2	7kA (2-PLY)		45	navy	IEC 61482-2 APC 2	EN ISO 11612 A1/A2/B1/C1/F1	EN ISO 11611 Class 1 A1+A2	EN 1149-5	46/48 – 58/60



SHIRT 4kA
Arc flash class 1
Part number: **01227 60026 001 + COLOUR NO.**
Garment weight: approx. 560 g

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.

Standard pictograms as direct embroidery















MEN'S COAT 7kA
Arc flash class 2
Part number: **01004 40030 001 45**
Garment weight: approx. 1,650 g

Single-coloured • completely double-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: 11.0 cal/cm² · 460.2 kJ/m² · **HAF VALUE:** 76.0 % · **FABRIC WEIGHT:** approx. 280 g/m²
2| : ATPV VALUE: 40.0 cal/cm² · 1.674,4 kJ/m² · **HAF VALUE:** 91.0 % · **FABRIC WEIGHT:** approx. 340 g/m² + approx. 265 g/m²
FIELDS OF APPLICATION: Plant construction, pipeline and line construction, electricians, public services, steel works, switch gear construction, communication, gas and water networks

HB-ArcSelect® is precisely tailored to the needs of arc fault protection in all classes. Due to the high cotton content, the soft fabric is as comfortable as high-quality leisure wear and is up to the demands of PPE in terms of wearing comfort and care: Multifunctional and high-quality protective clothing, suited for several application areas.



ITEM	PLY	COLOUR	COLOUR NO.	COLOUR NAME					REGULAR SIZES
1	4kA (1-PLY)		2027	royal/navy	IEC 61482-2 APC 1				46-58 & 94-110
1 , 2 , 3			2381	medium grey/dark grey					
2 , 3			2071	medium grey/red					
2 , 3			2041	navy/royal					
1	7kA/4kA (2-PLY)		2382	dark grey/medium grey	IEC 61482-2 APC 2* *Front part and sleeves / front trousers	EN ISO 11612 A1/A2/B1/C1/ E2/F1	EN ISO 11611 Class 1 A1+A2	EN 1149-5	
1 , 2 , 3			2027	royal/navy					
2 , 3			2381	medium grey/dark grey					
2 , 3			2071	medium grey/red					
2 , 3			2041	navy/royal					
2 , 3			2382	dark grey/medium grey					



BLOUSON 4kA
Arc flash class 1
Part number 4kA: **01004 10000 001 + COLOUR NO.**
Garment weight: approx. 950g

BLOUSON 7kA/4kA
Arc flash class 2
Part number 7kA/4kA: **01004 10000 002 + COLOUR NO.**
Garment weight: approx. 1,100g

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 snap 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 Hi-Vis protective clothing acc. to EN ISO 20471 and EN 17353.



Standard pictograms as flame-retardant direct embroidery

Further colour combinations are available through our high-speed delivery service. See page 221.



TROUSERS 4kA
Arc flash class 1
Part number 4kA: **01004 20000 001 + COLOUR NO.**
Garment weight: approx. 760g

TROUSERS 7kA/4kA
Arc flash class 2
Part number 7kA/4kA: **01004 20000 002 + COLOUR NO.**
Garment weight: approx. 870g

Two-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 suited for industrial laundry on side pocket, knee pocket and back of knees • no Hi-Vis protective clothing acc. to EN ISO 20471 and EN 17353.

BIB AND BRACE TROUSERS 4kA
Arc flash class 1
Part number 4kA: **01004 50100 001 + COLOUR NO.**
Garment weight: approx. 960g

BIB AND BRACE TROUSERS 7kA/4kA
Arc flash class 2
Part number 7kA/4kA: **01004 50100 002 + COLOUR NO.**
Garment weight: approx. 1,050g

Two-coloured • stretch braces with fixlock buckle • 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 • reflective elements suited for industrial laundry on bib, side pockets, knee pockets and back of knees • no Hi-Vis protective clothing acc. to EN ISO 20471 and EN 17353.

MATERIAL: 87 % COTTON, 12 % POLYAMIDE, 1 % CARBON
4kA: ATPV VALUE: 16.0 cal/cm² • 669.8 kJ/m² • **HAF VALUE:** 83.0 % • **FABRIC WEIGHT:** approx. 340 g/m²
7kA/4kA: FABRIC WEIGHT: approx. 340 g/m² + approx. 280 g/m²
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

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) 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* *Front part and sleeves/ front trousers	EN ISO 11612 A1+A2/B1/C1/E3/F1	EN ISO 11611 Class 2 A1+A2	EN 1149-5	46-58 & 94-110
2, 3		458	navy					
		52	medium grey					



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. 1,175 g

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.



TROUSERS 7kA/4kA
Arc flash class 2
Part number: **01237 20060 037 + COLOUR NO.**
Garment weight: approx. 970 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. 1,130 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

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

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 models are double-worked at the front and sleeves.



ITEM	PLY	COLOUR	COLOUR NO.	COLOUR NAME						REGULAR SIZES
1 2 3	4kA (1-PLY)		2177	navy/dark grey	IEC 61482-2 APC 1					
1 2 3	7kA/4kA (2-PLY)		2177	navy/dark grey	IEC 61482-2 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	46-58 & 94-110
1	7kA (2-PLY)		2177	navy/dark grey	IEC 61482-2 APC 2					



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 Hi-Vis 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.



7kA is completely doubled



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. 845 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 Hi-Vis 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 Hi-Vis protective clothing acc. to EN ISO 20471 and EN 17353.

MATERIAL: 55 % MODACRYLIC, 43 % COTTON, 2 % CARBON
4kA: ATPV-VALUE: 10.4 cal/cm² · 435 kJ/m² · **HAF VALUE:** 80.2 % · **FABRIC WEIGHT:** approx. 275 g/m²
7kA/4kA: EBT50-VALUE: 20.0 cal/cm² · 837.3 kJ/m² · **HAF VALUE:** 88.9 % · **FABRIC WEIGHT:** + approx. 175 g/m²
FIELDS OF APPLICATION: Metal industry, public services, electricians, pipeline and line construction, communication , gas and water networks



Combined with the jackets of the HB-MODarc® collection, the shirts increase the protective function as an additional clothing layer and thus expand the application possibilities of the PPE. With the intelligent clothing combinations of the comprehensive HB-MODarc® product range, the arc fault protection class 2 can also be fulfilled.



ITEM	COLOUR	COLOUR NO.	COLOUR NAME						REGULAR SIZES
1 , 2		45	navy						Unisex S-2XL
		521	cement grey						
2		228	orange						
		50	light grey						
3		2193	black/anthracite reflective	EN 14058 Class 1	IEC 61482-2 APC 1	EN ISO 11612 A1+A2/B1/ C1/F1	EN 1149-5	EN 13758-2	
						EN ISO 11612 A1/B1/C2/F1		-	



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

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.



Reinforced with HI-VISION®-sparks material



FLEECE JACKET 4ka

Arc flash class 1
Part number: **07015 19082 005 2193**
Garment weight: approx. 975 g

Two-coloured • design with round shapes • high band collar with hook&loop fastener and standard pictograms as direct embroidery • closure bands with covered zip fastener and added buttoning band • 2 side pockets with zip fastener • sleeve with additional inner knitted wristband and windblocker • elongated back • side pockets, elbow and shoulders reinforced with special strong HI-VISION® sparks material with reflective threads.



Elongated back

1|, 2| **MATERIAL:** 54 % MODACRYLIC, 44 % COTTON, 2 % CARBON ·
ATPV VALUE: 6.4 cal/cm² · **HAF VALUE:** 70.1 % · **FABRIC WEIGHT:** approx. 215 g/m² ·
3| **MATERIAL:** 48 % MODACRYL, 32 % COTTON, 18 % POLYESTER, 2 % CARBON ·
FABRIC WEIGHT: approx. 360 g/m² ·

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



HB-MODarc® is high-quality arc flash PPE in an outdoor design 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	PLY	COLOUR	COLOUR NO.	COLOUR NAME						REGULAR SIZES
1	4kA (1-PLY)		2251	grey/black	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	46-58 & 94-110
2 , 3			2188	black/grey						
1	7kA/4kA (2-PLY)		2251	grey/black	IEC 61482-2 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	46-58 & 94-110
2 , 3			2188	black/grey						



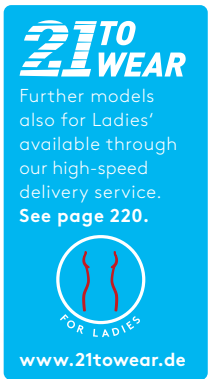
BLOUSON 4kA
Arc flash class 1
Part number 4kA: **01072 10107 034 2251**
Garment weight: approx. 835 g

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.



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



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.

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.

MATERIAL: 55 % MODACRYLIC, 43 % COTTON, 2 % CARBON
4kA: ATPV-VALUE: 10.4 cal/cm² · 468.9 kJ/m² · **HAF VALUE:** 81.4 % · **FABRIC WEIGHT:** approx. 275 g/m² ·
7kA/4kA: EBT50-VALUE: 20.0 cal/cm² · 837.3 kJ/m² · **HAF VALUE:** 88.9 % ·
FABRIC WEIGHT: approx. 275 g/m² + approx. 175 g/m² ·
FIELDS OF APPLICATION: Public services, energy suppliers, plant construction, electrical installation



2 and 3|
Bellows pocket with additional attached pocket

2 and 3|
Knee pockets with hook&loop fastener



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

Due to strong demand, we also offer our popular HB-MODarc® collection with reflective stripes. 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	PLY	COLOUR	COLOUR NO.	COLOUR NAME						REGULAR SIZES
1	4kA (1-PLY)		2251	grey/black	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	46-58 & 94-110
2 ,3			2041	navy/royal						
2 ,3			2188	black/grey						
2 ,3			45	navy						
1	7kA/4kA (2-PLY)		2251	grey/black	IEC 61482-2 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	46-58 & 94-110
2 ,3			2041	navy/royal						
2 ,3			2251	grey/black						
2 ,3			2188	black/grey						
2			45	navy						



BLOUSON 4kA REFLECTIVE STRIPES

Arc flash class 1
Part number 4kA: 01072 10107 039 + COLOUR NO.
Garment weight: approx. 895 g

BLOUSON 7kA/4kA REFLECTIVE STRIPES

Arc flash class 2
Part number 7kA/4kA: 01072 10107 038 + COLOUR NO.
Garment weight: approx. 970 g

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 Hi-Vis protective clothing acc. to EN ISO 20471 and EN 17353.



21 TO WEAR

Further colour combinations plus Ladies' versions are available through our high-speed delivery service. See page 220. www.21towear.de



TROUSERS 4kA REFLECTIVE STRIPES

Arc flash class 1
Part number 4kA: 01072 20074 009 + COLOUR NO.
01072 20074 016 45
Garment weight: approx. 765 g

TROUSERS 7kA/4kA REFLECTIVE STRIPES

Arc flash class 2
Part number 7kA/4kA: 01072 20074 008 + COLOUR NO.
01072 20074 015 45

Garment weight: approx. 880 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) • knee pockets with hook&loop fastener • flame-retardant reflective stripes suitable for industrial laundry • no Hi-Vis protective clothing acc. to EN ISO 20471 and EN 17353.

BIB AND BRACE TROUSERS 4kA REFLECTIVE STRIPES

Arc flash class 1
Part number 4kA: 01072 50055 009 + COLOUR NO.
01072 50055 014 45
Garment weight: approx. 890 g

BIB AND BRACE TROUSERS 7kA/4kA REFLECTIVE STRIPES

Arc flash class 2
Part number 7kA/4kA: 01072 50055 008 + COLOUR NO.
Garment weight: approx. 1,005 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 • flame-retardant reflective stripes suitable for industrial laundry • no Hi-Vis protective clothing acc. to EN ISO 20471 and EN 17353.

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

4kA: ATPV-VALUE: 10.4 cal/cm² · 468.9 kJ/m² · HAF VALUE: 81.4 % · FABRIC WEIGHT: approx. 275 g/m²

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

FABRIC WEIGHT: approx. 275 g/m² + approx. 175 g/m²

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

HABETEX®

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						Unisex S-2XL
2		2112	fluorescent yellow/navy						
3		2112	fluorescent yellow/navy						

1|

Flexible segmented and flame-retardant reflective stripes

POLO-SHIRT 4kA LONG SLEEVE
Arc flash class 1
Part number: **01270 80012 003 2397**
Garment weight: approx. 350 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.

Standards pictograms on the sleeve as FR direct embroidery

POLO-SHIRT 4kA LONG SLEEVE
Arc flash class 1
Part number: **01244 80012 003 2112**
Garment weight: approx. 300 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.

3|

Reflective stripes, suitable for industrial laundry

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 MATERIAL: 49% POLYESTER, 30% MODACRYLIC, 20% COTTON, 1% CARBON · FABRIC WT.: approx. 245 g/m² ·	
2 MATERIAL: 54% MODACRYLIC, 44% COTTON, 2% CARBON · ATPV VALUE: 6.4 cal/cm² · HAF VALUE: 70.1% · FABRIC WEIGHT: approx. 215 g/m² ·	
3 MATERIAL: 55% MODACRYLIC, 43% COTTON, 2% CARBON · FABRIC WEIGHT: approx. 275 g/m² ·	
FIELDS OF APPLICATION: Plant construction, pipeline and line construction, electricians, public services, steel works, switch gear construction, communication, gas and water networks	

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	PLY	COLOUR	COLOUR NO.	COLOUR NAME							REGULAR SIZES
1	4kA (1-PLY)		2112	fluorescent yellow/navy	EN ISO 20471 Class 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	46-58 & 94-110
2 , 3					EN ISO 20471 Class 1						
1	7kA/4kA (2-PLY)				EN ISO 20471 Class 2						
2 , 3					EN ISO 20471 Class 1						



21 TO WEAR
Jackets and trousers for Ladies available through our high-speed delivery service. See page 220.

www.21towear.de

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



Pockets with handy tab to open

Reflective stripes, suitable for industrial laundry

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.

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

TROUSERS 4kA
Arc flash class 1
Part number 4kA: **01072 20074 000 2112**
Garment weight: approx. 815g

TROUSERS 7kA/4kA
Arc flash class 2
Part number 7kA/4kA: **01072 20074 001 2112**
Garment weight: approx. 915g

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 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. 910g

BIB AND BRACE TROUSERS 7kA/4kA
Arc flash class 2
Part number 7kA/4kA: **01072 50055 001 2112**
Garment weight: approx. 1,040g

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.



2 and 3 | Cargo pocket + attached pocket

2 and 3 | Flame-retardant reflective stripes

MATERIAL: 55 % MODACRYLIC, 43 % COTTON, 2 % CARBON
4kA: ATPV VALUE: 10.4 cal/cm² · 435.4 kJ/m² · **HAF VALUE:** 80.2 % · **FABRIC WEIGHT:** approx. 275g/m²
7kA/4kA: EBT50 VALUE: 20.0 cal/cm² · 837.3 kJ/m² · **HAF VALUE:** 88.9 %
FABRIC WEIGHT: approx. 275 g/m² + approx. 175 g/m²
FIELDS OF APPLICATION: Public services, public transport and construction, electricians, energy suppliers

HABETEX
HI-VISION®

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: both jackets can be used flexibly and are thus the ideal clothing for every season, suitable for many different work applications.



ITEM	COLOUR	COLOUR NO.	COLOUR NAME							REGULAR SIZES
1		2228	fluorescent orange-red/black blue	EN ISO 20471 Class 2	EN 14058 Class 1	IEC 61482-2 APC 2	EN ISO 11612 A1/B1/C2/F2	EN ISO 11611 Class 2 A1	EN 1149-5	Unisex S-2XL
		2143	fluorescent yellow/black blue							
2		2007	fluorescent yellow/navy							



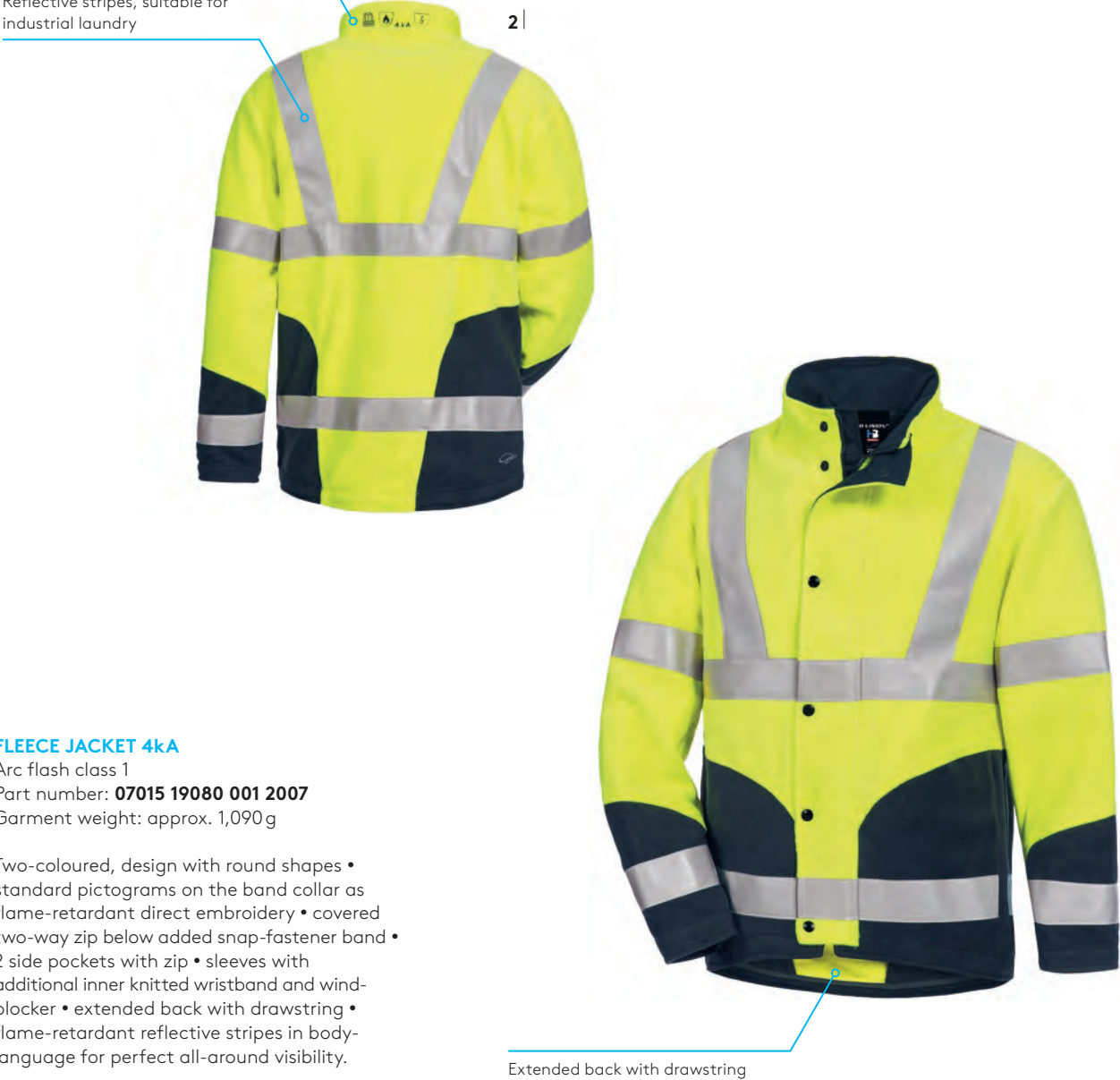
SOFTSHELL JACKET 7kA

Arc flash class 2
Part number: 10003 19072 012 + COLOUR NO.
Garment weight: approx. 1,375g

Two-coloured • raw white contrast stitching • high stand-up collar with hook&loop fastener and standard pictograms as FR direct stitching • covered zip fastener • Napoleon pocket on the left and 2 side pockets – each with zip • sleeves with additional inner knit cuffs • FR reflective stripes in body language.

1 and 2 |
Standard pictograms as direct embroidery on the collar

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, design with round shapes • standard pictograms on the band collar as flame-retardant direct embroidery • covered two-way zip below added snap-fastener 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.

1| MATERIAL: 40 % MODACRYLIC, 15 % COTTON, 20 % POLYESTER, 12 % ARAMIDE, 12 % VISCOSE, 1 % CARBON · ATPV VALUE: 44.8 cal/cm² · 1,874.4 kJ/m² · HAF VALUE: 92.3 % · FABRIC WEIGHT: approx. 540 g/m² ·
2| MATERIAL: 48 % MODACRYL, 32 % COTTON, 18 % POLYESTER, 2 % CARBON · FABRIC WT: approx. 360 g/m² ·
FIELDS OF APPLICATION: For electricians, mains technicians and plant engineers, network engineers, in particular with public utility companies/energy suppliers

HI-VISION®

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 made of flame-retardant material, 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	-	-	-	-	-	-	Unisex 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								

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® und INOTEC® parkas • various buttons for fixation in parka • elastic wristband • material certified acc. to EN ISO 11612 A1/B1/C1/F1.



Optimised fit

1 |

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.



FR standard pictograms embroidered on the collar



Patchable reflective stripes

Optimised Fit

2 |



2 | Combinable with zippable Inner fleece FR on left page.



1 | Effective protection against the cold: combine the fleece jacket with our HB-MODarc&vis® parkas page 51 and 52 and with our Inotec® Arc&Energy parka page 64.

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.



For buttoning to band collar



1 | **MAT.:** 48 % MODACRYLIC, 32 % COTTON, 18 % POLYESTER, 2 % CARBON • **FABRIC WT.:** approx. 360 g/m² •
2 | **MATERIAL:** 55 % MODACRYLIC, 43 % COTTON, 2 % CARBON // With liner • **ATPV VALUE:** 10.4 cal/cm²
outer ply • 435.4 kJ/m² • **HAF VALUE:** 80.2 % outer ply • **FABRIC WEIGHT:** approx. 275 g/m² •
FIELDS OF APPLICATION: Energy suppliers, public services, plant responsible, liquid metal works, steel works, metal construction, electricians, public transport areas



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.

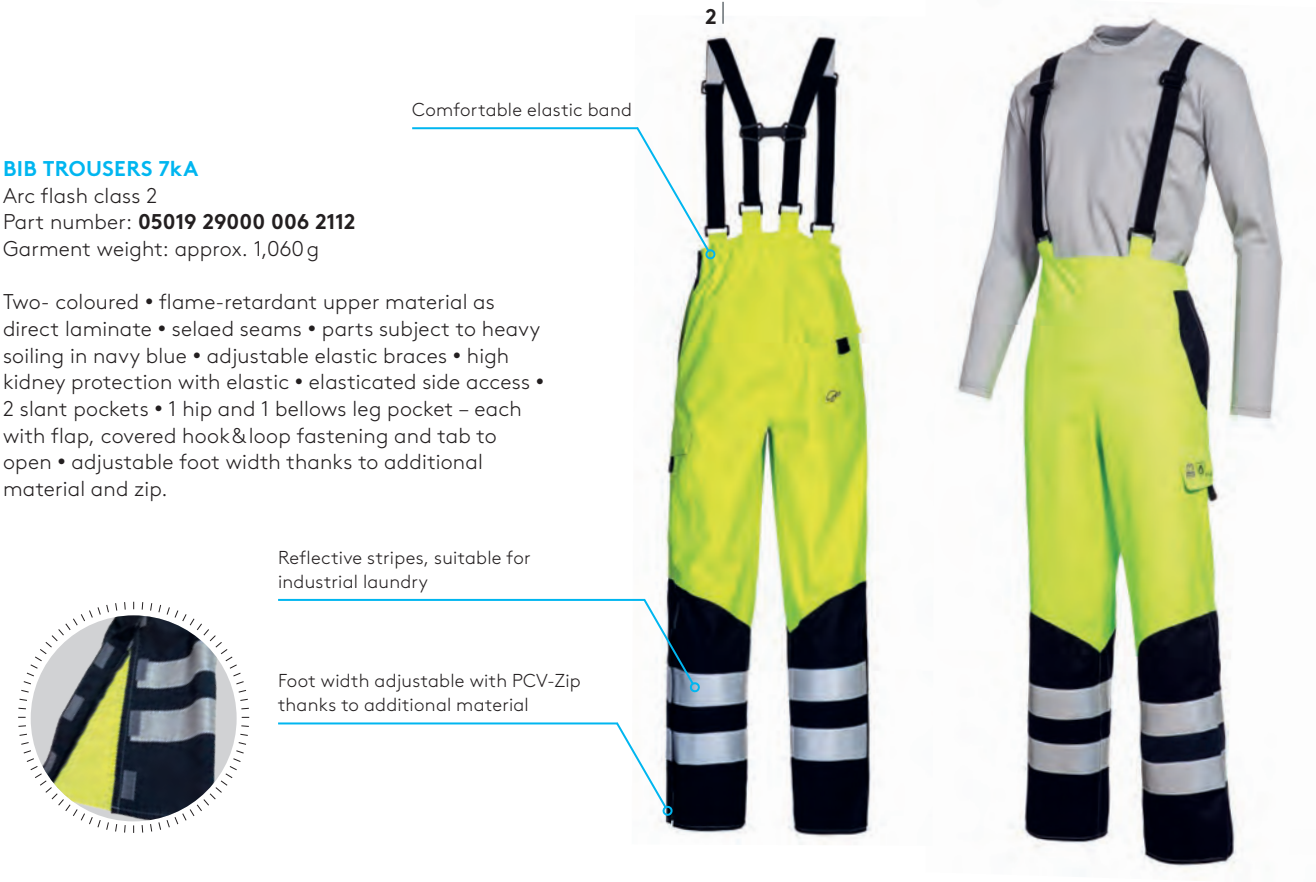


ITEM	COLOUR	COLOUR-NO.	COLOUR NAME								REGULAR SIZES
1				EN ISO 20471 Class 3	EN 343 Class 3/4	IEC 61482-2 APC 2	EN ISO 11612 A1/B1/C1/F1	EN ISO 11611 Class 1 A1	EN 1149-5	EN 13034 Type 6	Unisex S-2XL
2		2112	fluorescent yellow/navy	EN ISO 20471 Class 1							One size
3				Certification only in combination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



PARKA 7ka
Arc flash class 2
Part number: **05019 19071 008 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 part • 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 collar • worn together with our inner fleece Jacket it achieves EN ISO 11612 B2 and C2.



BIB TROUSERS 7ka
Arc flash class 2
Part number: **05019 29000 006 2112**
Garment weight: approx. 1,060g

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.



HOOD
Arc flash class 2
Part number: **05019 79006 001 2112**
Garment weight: approx. 200g

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

ATPV VALUE: 22.2 cal/cm² outer ply · 929.3 kJ/m² · **HAF-VALUE:** 87.8 % outer ply

FABRIC WEIGHT: approx. 300 g/m²

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

HB-MultiPro FR®

HB-Multi-Pro FR® was specially developed for work applications with diverse hazard profiles. The collection is accordingly extensively certified and additionally ergonomically optimised. Thanks to the incorporated membrane, the material is windproof and waterproof, breathable and hard-wearing and is also suitable for use in autumn and winter.



ITEM	PLY	COLOUR	COLOUR-NO.	COLOUR NAME									REGULAR SIZES
1	4kA (1-PLY)		48	dark blue	-	-	IEC 61482-2 Class 1	EN ISO 11612 A1/B1/C2/F1	-	-	-	EN 14058 Class 1	46/48-58/60
1	7kA (2-PLY)				-	-	IEC 61482-2 Class 2	EN ISO 11612 A1/B2/C2/F1	-	-	-		
2	7kA (2-PLY)		2143	fluoresc. yellow/ dark blue	EN ISO 20471 Class 3	EN 343 Class 3/3	IEC 61482-2 Class 2	EN ISO 11612 A1/B1/C1/ E1/F1	EN ISO 11611 Class 2 A1	EN 1149-5	EN 13034 Type PB [6]	-	
3			2147	fluoresc. orange/ dark blue	EN ISO 20471 Class 2								
4	-		17	fluoresc. yellow	Certification only in combination with parka								One size
			18	fluoresc. orange									



FLEECE JACKET 4kA
Arc flash class 1
Part number 4kA (4 kA): **07015 1M016 000 48**
Garment weight: approx. 991g

FLEECE JACKET 7kA
Arc flash class 2
Part number 7kA/4kA (7 kA): **07015 1M016 007 48**
Garment weight: approx. 1,200g

Single-coloured • combinable with parka HB-MultiPro FR or wear it stand-alone • stand-up collar with loop for Parka attachment, to wear high-necked or open • covered zip • 1 chest pocket on the left and 2 side pockets – each with covered zip and hook&loop fastener • 1 mobile phone pocket on the right with flap and covered snap fastener • waist width adjustable via cord • sleeve with elastic band and 2 loops each for parka attachment • standard pictograms as FR embroidery on the back of the collar.

PARKA 7kA
Arc flash class 2
Part number: **01121 1M017 002 + COLOUR NO.**
Garment weight: approx. 1,885g

Two-coloured • flame-retardant upper material with liner, sealed seams • stand-up collar with covered button, to wear high-necked or open • covered 2-way zip plus drip moulding • 2 chest pockets and 2 side pockets – each with flap and covered hook&loop fastener • 1 inner pocket on the left with hook&loop fastener • elongated back • hem width adjustable via cord • zip fastener on the inside to integrate fleece Jacket • wristband adjustable via hook&loop fastener • flame retardant reflective stripes suited for industrial laundry • standard pictograms as FR embroidery on left sleeve.

BIB AND BRACE TROUSERS 7kA
Arc flash class 2
Part number: **01121 5M004 000 + COLOUR NO.**
Garment weight: approx. 1,486g

Two-coloured • flame-retardant upper material with liner • sealed seams • adjustable stretch braces • straight kidney protection • 1 bib pocket with mobile phone pocket, pen pocket and pen compartments • 2 slant pockets • 1 hip pocket, 1 ruler pocket on the right and 1 bellow pocket on the left – each with flap and covered hook&loop fastener • 2 side accesses with covered snap fastener and covered hook&loop fastener at the waist • slit with zip • legs' width adjustable via hook&loop fastener • legs with water-stop • flame retardant reflective stripes suited for industrial laundry • standard pictograms as FR embroidery on left leg.



HOOD
Arc flash class 2
Part number: **01121 7M001 002 + COLOUR NO.**
Garment weight: approx. 161g

Single-coloured • flame-retardant upper material with liner • sealed seams • separate hood, attachable via snap fasteners • 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.



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 ·

FIELDS OF APPLICATION: Petrochemistry, catenary construction, energy suppliers

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 A1/B1/C1/F1	EN ISO 11611 Class 1 A1	EN 1149-5	46-58 & 94-110



Many reflective pipings

Inner mobile phone pocket with hook&loop fastener

Closure band with covered zip fastener and covered hook&loop fasteners

BLOUSON 4kA
Arc flash class 1
Part number: **01031 10036 005 2030**
Garment weight: approx. 770g

Two-coloured • front part partially with 2 layers • front, back, sleeve and pocket flaps with FR reflective piping, suitable for industrial laundry • high band collar with strap and hook&loop fastener • 2 front and 2 side pockets – each with flap and covered hook&loop fastener • 1 inner mobile phone pocket on the right and 1 inner pocket on the left, each with hook&loop fastener • waistband with elastic band in side parts • wristband with covered snap fasteners • no Hi-Vis protective clothing acc. to EN ISO 20471 and EN 17353.

Standards pictograms on the front as FR direct embroidery



2 and 3 | Ruler pocket on the right

Bellow pocket with flap and hook&loop fastener

FR reflective stripes, suitable for industrial laundry

Reflective piping at bib and flaps

2 and 3 | Knee pockets made from particularly abrasion-resistant Aramide

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 Hi-Vis 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 Hi-Vis 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 %
FIELDS OF APPLICATION: Energy suppliers, public services, plant engineering and construction, electricians	

DuPont™
NOMEX®

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 Class 1	—	EN ISO 11612 A1/B1/C1/F1	EN 1149-5	46–58 & 94–110
2 , 3				—	IEC 61482-2 APC 1			



Inner front pocket with flap and snap fasteners

Front pocket with flap and covered snap fastener



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	
ATPV VALUE: 9.0 cal/cm² · 376.8 kJ/m² · HAF VALUE: 71.6 % · FABRIC WEIGHT: approx. 260 g/m²	
FIELDS OF APPLICATION: Plant engineering and construction, energy suppliers, electric installation, public services, electricians	

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				IEC 61482-2 Class 1	–			
4				–	–			39/40–47/48



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.

CLASSIC SHIRT 4KA
Arc flash class 1
Part number: **01046 60000 008 41**
Garment weight: approx. 365 g

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

MATERIAL: 98 % ARAMIDE, 2 % CARBON ·
ATPV VALUE: 9.0 cal/cm² · 376.8 kJ/m² · HAF VALUE: 71.6 % ·
FABRIC WEIGHT: 1| to 3| approx. 260 g/m² · 4| approx. 185 g/m² ·
FIELDS OF APPLICATION: Plant engineering and construction, energy suppliers, electric installation, public services, electricians

DuPont™
NOMEX®

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	PLY	COLOUR	COLOUR NO.	COLOUR NAME				REGULAR SIZES
1 ,2 ,3	4kA (1-PLY)		2034	royal/ dark navy	IEC 61482-2 Class 1	EN ISO 11612 A1/B1/C1/F1	EN 1149-5	46-58 & 94-110
1 ,2 ,3	4kA/7kA (2-PLY)				IEC 61482-2 Class 2*			

1|

Sleeve hem with hook&loop fastener

2 and 3|

Vertical movement pleat with integrated flame-retardant reflective film, suitable for industrial laundry

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

JACKET 4kA
Arc flash class 1
Part number 4kA: **01042 10105 014 2034**
Garment weight: approx. 780 g

JACKET 7kA/4kA
Arc flash class 2
Part number 7kA/4kA: **01042 10105 015 2034**
Garment weight: approx. 940 g

Two-coloured • turn-down collar • closure band with covered buttons • 2 front and 2 side pockets – each with flap and hook&loop fastener • 1 inner front pocket on the left with hook&loop fastener • FR reflective piping suitable for industrial laundry at front, back and sleeves • back with FR reflective stripes suitable for industrial laundry • wristband adjustable via hook&loop fastener • standard pictograms as direct embroidery on front • no Hi-Vis protective clothing acc. to EN ISO 20471 and EN 17353.

2|

2 and 3|

Hip pockets with flaps and hook&loop fasteners

2 and 3|

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: **01042 20060 006 2034**
Garment weight: approx. 650 g

TROUSERS 7kA/4kA
Arc flash class 2
Part number 7kA/4kA: **01042 20060 007 2034**
Garment weight: approx. 765 g

Two-coloured • added waistband • covered button fly • 2 slant pockets • 2 hip pockets with flap and hook&loop fastener • 1 double ruler pocket on the right • 1 leg pocket on the left (+ mobile phone pocket) with bellow, flap and hook&loop fastener • legs with 2 flame-retardant reflective stripes and reflective piping at yoke seam, suitable for industrial laundry • no Hi-Vis protective clothing acc. to EN ISO 20471 and EN 17353.

BIB AND BRACE TROUSERS 4kA
Arc flash class 1
Part number 4kA: **01042 50041 034 2034**
Garment weight: approx. 800 g

BIB AND BRACE TROUSERS 7kA/4kA
Arc flash class 2
Part number 7kA/4kA: **01042 50041 035 2034**
Garment weight: approx. 920 g

Two-coloured • stretch braces with fixlock buckle • high-cut kidney protection • 1 outer bib pocket with flap, FR reflective piping and hook&loop fastener • side access on the left adjustable via buttons • covered button fly • 2 slant pockets • 2 hip and 1 bellows leg pocket (+ mobile phone pocket inside) on the left – each with flap and hook&loop fastener • 1 double ruler pocket on the right • no Hi-Vis protective clothing acc. to EN ISO 20471 and EN 17353.

MATERIAL: 98 % ARAMIDE, 2 % CARBON

4kA: ATPV VALUE: 9.0 cal/cm² · 376.8 kJ/m² · **HAF VALUE:** 71.6 % · **FABRIC WEIGHT:** approx. 260 g/m²

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

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

INOTEC® Arc & Energy combines durability, comfort and low fabric weight with very high protection: fibre-inherent flame protection, excellent arc flash protection plus antistatic. Combined with the associated weather protection equipment and our inner fleece, this high-quality PPE allows you to work in low temperatures without any problems.



ITEM	COLOUR	COLOUR-NO.	COLOUR NAME					REGULAR SIZES
1, 2		2027	royal/navy	EN 343 Class 3/3	IEC 61482-2 Class 2	EN ISO 11612 A1/B1/C1/F1	EN 1149-5	Unisex S-2XL
3		41	royal	Certification only in combination with parka				One size



Embroidered FR pictograms on the collar



1, 2 and 3 | High quality reflective stripes

PARKA 7ka
Arc flash class 2
Part number: **01043 19060 000 2027**
Garment weight: approx. 1,500 g

Two-coloured • flame-retardant upper material with liner • sealed seams • high band collar with covered buttons for fastening of hood • covered 2-way zip fastener plus drip moulding with hook&loop fastener • 2 front pockets with side openings and hook&loop fastener • 1 front pocket on the left as mobile phone pocket (bellows) with pen compartments and flap with covered hook&loop fastener • 2 attached side pockets (bellows) with flaps and covered hook&loop fastener • 2 side seam pockets with hook&loop fastener • waist adjustment via drawstring • flame-retardant reflective stripes and piping, wristbands adjustable via strap and hook&loop fastener • standard pictograms as direct embroidery on the collar • no Hi-Vis protective clothing acc. to EN ISO 20471 and EN 17353.

1 | Combinable with zippable Fleece-jacket (see page 50). So you can keep working at very low temperatures.

1, 2 and 3 | Sealed seams



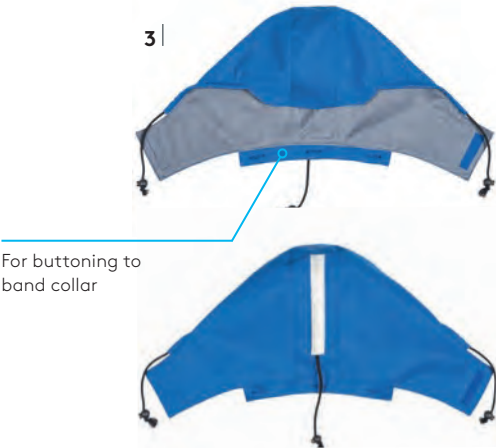
BIB AND BRACE TROUSERS 7ka
Arc flash class 2
Part number: **01043 59001 000 2027**
Garment weight: approx. 965 g

Two-coloured • flame-retardant upper material with liner • sealed seams • stretch braces • straight kidney protection • 1 outer bib pocket with ball-pen compartments and flap with covered hook&loop fastener • 1 side access on the left, adjustable via buttons • zip fly • 2 attached thigh pockets • 1 hip pocket on the right, 1 ruler pocket on the right and 1 leg pocket (bellows) on the left – each with flap and covered hook&loop fastener • flame-retardant reflective stripes at waist and legs • reflective piping at bib attachment and thigh pockets • no Hi-Vis protective clothing acc. to EN ISO 20471 and EN 17353.



HOOD
Arc flash class 2
Part number: **01043 79000 000 41**
Garment weight: approx. 140 g

Single-coloured • flame-retardant upper material with liner • for buttoning to band collar • with added peak • field of vision and hood height adjustable via drawstring • adjustable in chin area via hook&loop fastener • flame-retardant reflective stripe • no Hi-Vis protective clothing acc. to EN ISO 20471. Certification only in combination with Parka.



MATERIAL: 98 % ARAMIDE, 2 % CARBON // With liner
ATPV VALUE: 9.0 cal/cm² outer ply · 376.8 kJ/m² · **HAF VALUE:** 71.6 % outer ply
FABRIC WEIGHT: approx. 260 g/m²
FIELDS OF APPLICATION: Public services, energy suppliers, electricians, plant responsible, network engineers



HEAT, SPLASHES & WELDING
YOU FEEL PERFECTLY EQUIPPED
FOR EVERY CRUCIAL TEST

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.



PROBAN® 320 / 380 / 470

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 up to class 2 A1. The flame resistance persists even after repeated laundry and cleaning cycles.



ITEM	COLOUR	COLOUR NO.	COLOUR NAME	FABRIC WEIGHT	FABRIC NO.			REGULAR SIZES
1, 2, 3		53	medium grey	approx. 320 g/m²	01025	EN ISO 11611 Class 1 A1	EN ISO 11612 A1/B1/C1	46–58 & 94–110
1, 2, 3		41	royal	approx. 380 g/m²	01096	EN ISO 11611 Class 2 A1	EN ISO 11612 A1/B1/C1/E2/F1	
1, 2, 3		52	medium grey	approx. 470 g/m²	01272	EN ISO 11611 Class 2 A1	EN ISO 11612 A1/B1/C1/E3/F1	



JACKET
Welding protection class 1
Part number: **01025 10046 000 53**
Garment weight: approx. 615 g
Fabric weight: approx. 320 g/m²

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

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

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

Closure band with snap fasteners covered on both sides

Sleeve hem width adjustable via snap fasteners covered inside



TROUSERS
Welding protection class 1
Part number: **01025 20084 003 53**
Garment weight: approx. 620 g
Fabric weight: approx. 320 g/m²

TROUSERS
Welding protection class 2
Part number: **01096 20084 003 41**
Garment weight: approx. 770 g
Fabric weight: approx. 380 g/m²

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

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



BIB AND BRACE TROUSERS
Welding protection class 1
Part number: **01025 50062 001 53**
Garment weight: approx. 745 g
Fabric weight: approx. 320 g/m²

BIB AND BRACE TROUSERS
Welding protection class 2
Part number: **01096 50062 001 41**
Garment weight: approx. 960 g
Fabric weight: approx. 380 g/m²

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

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



MATERIAL: 100 % COTTON
FABRIC WEIGHT: approx. 320 g/m² · approx. 380 g/m² · approx. 470 g/m²
FIELDS OF APPLICATION: Steel works, metalworking industry, welding companies, plant construction, foundries

SECAN® Plus 330 / 395

Thanks to a special finishing process SECAN® Plus welding protection garments meet the requirements of the leasing industry to a great extent. The material is hardly inflammable (it can withstand approx. 50 industrial launderings), and suited for fire hazardous areas as well as for works with liquid iron.



ITEM	COLOUR	COLOUR NO.	COLOUR NAME	FABRIC WEIGHT	FABRIC NO.			REGULAR SIZES
1, 2, 3, 4		41	royal	approx. 330 g/m²	01018	EN ISO 11611 Class 1 A1+A2	EN ISO 11612 A1+A2/B1/C1/ E2/F1	46–58 & 94–110
1, 2, 3, 4		52	medium grey	approx. 395 g/m²	01249	EN ISO 11611 Class 2 A1+A2		



JACKET
Welding protection class 1
Part number: **01018 10048 000 41**
Garment weight: approx. 725 g
Fabric weight: approx. 330 g/m²

JACKET
Welding protection class 2
Part number: **01249 10204 000 52**
Garment weight: approx. 810 g
Fabric weight: approx. 395 g/m²

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 pipes and covered snap fasteners • sleeve hem width adjustable via inside covered snap fasteners • standard pictograms as direct embroidery on the front • FR leasing label.

TROUSERS
Welding protection class 1
Part number: **01018 20003 025 41**
Garment weight: approx. 715 g
Fabric weight: approx. 330 g/m²

TROUSERS
Welding protection class 2
Part number: **01249 20003 025 52**
Garment weight: approx. 770 g
Fabric weight: approx. 395 g/m²

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.



COVERALL
Welding protection class 1
Part number: **01018 30014 007 41**
Garment weight: approx. 1,285 g
Fabric weight: approx. 330 g/m²

COVERALL
Welding protection class 2
Part number: **01249 30014 007 52**
Garment weight: approx. 1,475 g
Fabric weight: approx. 395 g/m²

Single-coloured • turn-down collar • closure band with snap fasteners covered on both sides • 1 chest pocket on the left and 1 ruler pocket on the right • 1 inner chest pocket on the right and 2 pass-through piping pockets – each with covered snap fastener • cuffs with gusset • sleeve with hem width adjustable via covered snap fastener • FR leasing label.

BIB AND BRACE TROUSERS
Welding protection class 1
Part number: **01018 50002 006 41**
Garment weight: approx. 760 g
Fabric weight: approx. 330 g/m²

BIB AND BRACE TROUSERS
Welding protection class 2
Part number: **01249 50002 050 52**
Garment weight: approx. 880 g
Fabric weight: approx. 395 g/m²

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

MATERIAL: 100 % COTTON
FABRIC WEIGHT: approx. 330 g/m² · approx. 395 g/m²
FIELDS OF APPLICATION: Steel works, metalworking industry, welding companies, foundries, plant construction

SECAN® Securo 420

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

HEAT,
SPLOSHES &
WELDING



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	46-58 & 94-110



JACKET

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

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



Standard pictograms as direct embroidery



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

TROUSERS

Liquid metal Fe
Part number: **01248 20003 026 52**
Garment weight: approx. 810 g

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



BIB AND BRACE TROUSERS

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

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

MATERIAL: 98 % COTTON, 2 % CARBON
FABRIC WEIGHT: approx. 420 g/m²
FIELDS OF APPLICATION: Steel works, metalworking industry, welding companies, foundries, plant construction, heat exposed workplaces



SECAN® Securo 460

Our classic for protection against work with liquid iron splashes (E3) offers, in addition to antistatic and arc flash protection, increased visibility in dark halls thanks to yellow-backed reflective stripes. Flame retardancy is guaranteed for up to 50 industrial washes.



ITEM	COLOUR	COLOUR NO.	COLOUR NAME					REGULAR SIZES
1		3011	medium grey/orange/yellow	EN ISO 11612 A1+A2/B1/C1/E3/F1	EN ISO 11611 Class 2 A1+A2	EN 1149-5	IEC 61482-2 Class 1	46-58 & 94-110
2, 3		2068	medium grey/yellow					



JACKET
Liquid metal Fe
Part number: **01085 10007 017 3011**
Garment weight: approx. 1,170 g

Three-coloured • turn-down collar with covered snap fastener • closure band with covered snap fasteners on both sides • 1 inner chest pocket on the left • 2 chest pockets and 2 side pockets – each with flap and covered snap fasteners • flame-retardant reflective stripes, suitable for industrial laundry and with yellow background, manufactured in roof tile design • no Hi-Vis protective clothing acc. to EN ISO 20471 and EN 17353 • FR leasing label • standard pictograms as direct embroidery on the front.



1, 2 and 3 | Reflective stripes, suitable for industrial laundry, with yellow background in roof tile design

TROUSERS
Liquid metal Fe
Part number: **01085 20009 009 2068**
Garment weight: approx. 920 g

Two-coloured • added waistband with covered buttoning • covered button fly • 2 side seam pockets • 1 back pocket on the right and 1 ruler pocket on the right – each with flap and covered snap fastener • flame-retardant reflective stripes on the legs, suitable for industrial laundry and with yellow background, manufactured in roof tile design • no Hi-Vis protective clothing acc. to EN ISO 20471 and EN 17353.

BIB AND BRACE TROUSERS
Liquid metal Fe
Part number: **01085 50006 011 2068**
Garment weight: approx. 1,200 g

Two-coloured • fix-lock stretch braces with clips • added straight kidney protection • 2 side accesses and fly, each with buttons • bib with yellow piping • 2 side seam pockets with covered snap fastener • 1 outer bib pocket • 1 ruler pocket on the right and 1 back pocket on the right – each with flap and covered snap fastener • flame-retardant reflective stripes on the legs, suitable for industrial laundry and with yellow background, manufactured in roof tile design • no Hi-Vis protective clothing acc. to EN ISO 20471 and EN 17353.

MATERIAL: 98 % COTTON, 2 % CARBON
FABRIC WEIGHT: approx. 460 g/m²
FIELDS OF APPLICATION: Steel works, metalworking industry, welding companies, foundries, plant construction, heat exposed workplaces



HB-4welders® 2.0

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



ITEM	COLOUR	COLOUR NO.	COLOUR NAME					REGULAR SIZES
1		2205	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	46-58 & 94-110
2, 3		458	navy					
		52	medium grey					



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

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.



TROUSERS
Welding protection class 2
Part number: **01237 20060 034 + COLOUR NO.**
Garment weight: approx. 970g

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.

Ladies' trousers available through our high-speed delivery service.
See page 221.

www.21towear.de

BIB AND BRACE TROUSERS
Welding protection class 2
Part number: **01237 50041 065 + COLOUR NO.**
Garment weight: approx. 1,130g

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

MATERIAL: 89 % COTTON, 10 % POLYAMIDE, 1 % CARBON
FABRIC WEIGHT: approx. 390 g/m²
FIELDS OF APPLICATION: Welding companies, steel works, metalworking industry, foundries, plant construction



HB-welding & Vis

HB-welding & Vis was developed for welders working in areas at risk of arc flashes where high visibility is also required. With protection class 3 – the highest rating – HB-welding & Vis provides outstanding visibility even in poor viewing conditions, in workshops and in twilight. The material is wind-repellent and water-repellent, breathable and hard-wearing.



ITEM	COLOUR	COLOUR NO.	COLOUR NAME							REGULAR SIZES
1, 2, 3		2147	fluorescent orange/black blue	EN ISO 11611 Class 2 A1	EN ISO 11612 A1/B1/C1/E1/F1	EN ISO 20471 Class 2	EN 1149-5	IEC 61482-2 APC 1	EN 13034 Type PB (6)	46-58 & 94-110

Further colour combinations are available through our high-speed delivery service. See page 221.



JACKET
Welding protection class 2
Part number: **01121 1M015 000 2147**
Garment weight: approx. 1,234g

Two-coloured • stand-up collar with covered snap fastener • covered zip • 2 chest pockets with flap and covered hook&loop, on the left with pen pocket with 3 compartments, on the right 1 mobile phone pocket • 1 inner pocket on the left with hook&loop fastener • 2 side pockets and 1 pocket on left sleeve – each with flap and covered hook&loop fastener • wristband adjustable via hook&loop • waist with elastic band on both sides • flame retardant reflective stripes • standard pictograms as FR embroidery on right sleeve.



TROUSERS
Welding protection class 2
Part number: **01121 2M008 000 2147**
Garment weight: approx. 1,031g

Two-coloured • attached waistband, elastic band on both sides, 2 snap fasteners and high kidney protection with reflective stripes • 2 slant pockets • 2 back pockets, 1 ruler pocket on the right and 1 bellow pocket on the left – each with flap and covered hook&loop fastener • fly with zip • knee reinforcement on the inside • flame retardant reflective stripes • standard pictograms as FR embroidery on left leg pocket.

MATERIAL: 31 % POLYESTER, 28 % MODACRYLIC, 20 % ARAMIDE, 20 % VISCOSE, 1 % CARBON
FABRIC WEIGHT: approx. 320 g/m²
FIELDS OF APPLICATION: Welding companies, energy suppliers, track construction, chemical industry, public services, heat exposed workplaces, road construction



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



2 and 3
Knee reinforcement

BIB AND BRACE TROUSERS
Welding protection class 2
Part number: **01121 5M002 000 2147**
Garment weight: approx. 1,360g

Two-coloured • black fix-lock braces, adjustable • doubled kidney protection • 1 bib pocket with flap and covered hook&loop, with mobile phone pocket and pen pocket with compartments • 2 slant pockets • 2 back pockets • 1 ruler pocket on the right and 1 bellow pocket on the left – each with flap and covered hook&loop fastener • 2 side accesses with adjustable covered button closure • fly with zip • knee reinforcement on the inside • flame retardant reflective stripes • standard pictograms as FR embroidery on left leg.

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

ITEM	COLOUR	COLOUR NO.	COLOUR NAME			REGULAR SIZES
1, 2, 3		45	navy	EN ISO 11611 Class 1 AI	EN ISO 11612 A1/B1/C1/D3/ E3/F1	46-58 & 94-110
4						46-58



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

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



TROUSERS
Liquid metal Al + Fe
Part number: **01180 20148 000 45**
Garment weight: approx. 791 g

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



BIB AND BRACE TROUSERS
Liquid metal Al + Fe
Part number: **01180 50101 000 45**
Garment weight: approx. 963 g

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

SHIRT
Liquid metal 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 ·
FIELDS OF APPLICATION: Aluminium working industry, foundries, metalworks, heat exposed workplaces



HB-FluidMetal Pro 340 / 430

HB-FluidMetal Pro, available in two weight classes, is the answer to the special requirements of the protective function of PPE for working with high temperatures or molten metal. The material has good moisture management and is comfortable to wear thanks to the balanced material mix. The fabric also offers anti-static properties and protects the wearer from electric arcs.



ITEM	COLOUR	COLOUR NO.	COLOUR NAME	FABRIC WEIGHT					REGULAR SIZES
1 , 2 , 3		2043	navy/medium grey	approx. 340 g/m²	EN ISO 11611 Class 1 A1+A2	EN ISO 11612 A1+A2/B1/C1/D2/E2/F1			46-58 & 94-110
1 , 2 , 3		2070	medium grey/pure orange	approx. 430 g/m²	EN ISO 11611 Class 2 A1+A2	EN ISO 11612 A1+A2/B1/C1/D3/E3/F1	EN 1149-5	IEC 61482-2 Class 1	
4		45 52	navy medium grey	approx. 340 g/m²	EN ISO 11611 Class 1 A1+A2	EN ISO 11612 A1+A2/B1/C1/D2/E2/F1			39/40-47/48



JACKET
Liquid metal Al + Fe
Part number: **01221 10020 000 + COLOUR NO.** (340 g/m²)
Garment weight: approx. 840 g

JACKET
Liquid metal Al + Fe
Part number: **01218 10020 000 + COLOUR NO.** (430 g/m²)
Garment weight: approx. 1,060 g

Two-coloured • stand-up collar with concealed press stud • 2 breast pockets with flap • 2 side pockets • covered front closure with press studs • FR neck label • flame-retardant reflective stripes, suitable for industrial laundry • standard pictograms as FR direct embroidery at the front • manufactured in roof tile design.

TROUSERS
Liquid metal Al + Fe
Part number: **01221 20019 000 + COLOUR NO.** (340 g/m²)
Garment weight: approx. 760 g

TROUSERS
Liquid metal Al + Fe
Part number: **01218 20019 000 + COLOUR NO.** (430 g/m²)
Garment weight: approx. 980 g

Two-coloured • 2 slant pockets • fly with spiral zip fastener • 2 back pockets, 1 ruler pocket on the right and 1 bellows pocket left, each with flap and covered snap fastener • knee pocket with adjustable hook&loop fastener • flame-retardant reflective stripes, suitable for industrial laundry • manufactured in roof tile design • no Hi-Vis protective clothing acc. to EN ISO 20471 and EN 17353.



BIB AND BRACE TROUSERS
Liquid metal Al + Fe
Part number: **01221 50013 000 + COLOUR NO.** (340 g/m²)
Garment weight: approx. 1,030 g

BIB AND BRACE TROUSERS
Liquid metal Al + Fe
Part number: **01218 50013 000 + COLOUR NO.** (430 g/m²)
Garment weight: approx. 1,300 g

Two-coloured • fix-lock stretch braces • breast bib pocket • two-sided access with gusset • 2 side seam pockets • slit detail with spiral zip fastener • 2 back pockets • pocket for folding rule right and 1 bellows pocket left each with flap and covered snap fasteners • knee pad pocket with adjustable hook&loop fastener • flame-retardant reflective stripes, suitable for industrial laundry • manufactured in roof tile design.



SHIRT
Liquid metal Al + Fe
Part number: **01221 60014 023 + COLOUR NO.** (340 g/m²)
Garment weight: approx. 690 g

Single-coloured • collar with added collar band • closure band with covered snap fasteners • chest pocket left (with flap) and sleeve hem (with gusset and cuffs) – each with covered snap fastener • back with side folds for freedom of movement • manufactured in roof tile design • standard pictograms as FR embroidery on right sleeve cuff.

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

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



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



High band collar with covered hook&loop fastener



Large inner pocket

Manufactured in roof tile design

BLOUSON

Liquid metal Al + Fe
Part number: 01058 10015 005 48
Garment weight: approx. 960g

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.

1 |



2 |



TROUSERS

Liquid metal Al + Fe
Part number: 01058 20013 003 48
Garment weight: approx. 1,005g

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.



3 |



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

BIB AND BRACE TROUSERS

Liquid metal Al + Fe
Part number: 01058 50012 003 48
Garment weight: approx. 1,130g

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.



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



4 |



SHIRT, WITH STAND-UP COLLAR

Liquid metal Al + Fe
Part number: 01057 60002 004 48
Garment weight: approx. 540g

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

MATERIAL: 85 % VINYLAL, 15 % MODAL

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

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



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 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.



JACKET
CK-12/Z

PROTECTIVE
HOOD
KF-3/Z

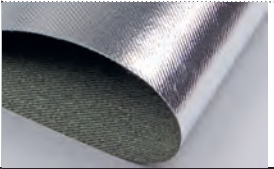
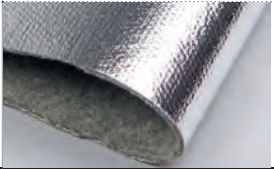
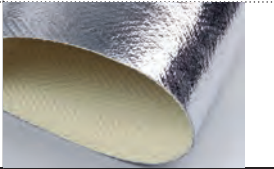
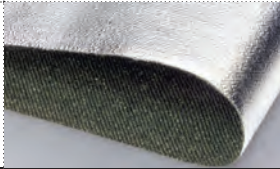
TROUSERS
CK-12/Z

GAITERS
CK-4/Z

5-FINGER-
GLOVES
AW-1/Y

TEMPEX® TREME HEAT MATERIAL OVERVIEW

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

Material name	CK-12/Z	AW-1/Y	KF-3/Z	CK-4/Z
Part number	12014	12008	12003	12015
Material	70 % preox, 30 % para-aramide	100 % aramide (70 % recycled meta-aramide, 30 % para-aramide)	100 % para-aramide	70 % preox, 30 % para-aramide
Material weight	approx. 360 g/m²	approx. 420 g/m²	approx. 475 g/m²	approx. 690 g/m²
Carrier material	Twill	Knitted fabric with roughened nap	Herringbone twill	Twill
Aluminisation	High-vacuum metallisation	PES film aluminised on both sides	High-vacuum metallisation	High-vacuum metallisation
Standards	EN ISO 11612 A1/B1/C3/D3/E3/F1	EN ISO 11612 A1/B1/C4/D3/E3/F2	EN ISO 11612 A1/B1/C3/D3/E3/F1	EN ISO 11612 A1/B1/C3/D3/E3/F2
Protection properties	<ul style="list-style-type: none">• High protection against radiant heat• Very good protection from liquid metal spatters• 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 spatters• 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 spatters• 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 spatters• Very high mechanical strength
Detailed photo				

FIELDS OF APPLICATION:
Steelworks, aluminium-processing industry, foundries, heat-exposed workplaces, metal processing industry

TEMPEX®-TREME HEAT

We offer jacket, trousers, foundry coat and sleeve apron in the resistant material KF-3/Z in various designs. Choose between hook&loop- and Ruck-Zuck-fastening as well as different coat and jacket lengths (see model overview on page 222).

21 TO WEAR

HEAT, SPLASHES & WELDING

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



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

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

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

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

21 TO WEAR

All other versions are available via our 21 TO WEAR® high-speed delivery service. For more information see the model overview on page 222/223.



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

TEMPEX®-TREME HEAT

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



TEMPEX®-TREME HEAT
COMFORT

In the COMFORT program we offer all models in the materials CK-12/Z and AW-1/Y for high wearing comfort and protection. The jacket has hook&loop or snap fastener, ergonomic and width-adjustable sleeves as well as different lengths, the trousers have a comfort waistband and a hem-length hook&loop fastener.



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

21 TO WEAR

All other versions are available via our 21 TO WEAR® high-speed delivery service. For more information see the **model overview** on page 222/223.



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

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

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

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

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



JACKET
Metalized heatprotection (C3)
Part number: **12008 11180 000 15 (AW-1/Y)**
Garment weight: approx. 805 g

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

TROUSERS
Metalized heatprotection (C3)
Part number: **12014 21000 001 15 (CK-12/Z)**
Garment weight: approx. 780 g

TROUSERS
Metalized heatprotection (C3)
Part number: **12008 21000 001 15 (AW-1/Y)**
Garment weight: approx. 920 g

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

TEMPEX®-TREME HEAT COMFORT

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



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



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

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

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

21 TO WEAR

All other versions are available via our high-speed delivery service. For more information see the **model overview** on **page 222/223**.

More sizes available – see size table on page 228



APRON WITH SLEEVES
Metalized heatprotection (C4)
Part number: **12008 71130 000 15 (AW-1/Y)**
Garment weight: approx. 1,005 g

Neckline with FR molleton • opening with covered hook&loop fastener • hook&loop fastener on the back • back protection with hook&loop fastener • ergonomic sleeves • sleeve width adjustable via snap fastener inside • all seams with FR thread • length: approx. 130 cm.
Further available length: 140 cm.

BIB APRON
Metalized heatprotection (C4)
Part number: **12008 71131 000 15 (AW-1/Y)**
Garment weight: approx. 520 g

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

TEMPEX®-TREME HEAT COMFORT Plus

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



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



FOUNDRY COAT
Metalized heatprotection (C3)
Part number: **12014 41130 021 15 (CK-12/Z)**
Garment weight: approx. 1,180 g

FOUNDRY COAT
Metalized heatprotection (C4)
Part number: **12008 41130 021 15 (AW-1/Y)**
Garment weight: approx. 1,330 g

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

JACKET
Metalized heatprotection (C3)
Part number: **12014 11180 020 15 (CK-12/Z)**
Garment weight: approx. 710 g

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

21 TO WEAR

All other versions are available via our 21 TO WEAR® high-speed delivery service. For more information see the model overview on page 222/223.

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.



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

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.



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 7I010 000 15).

One size

■ silver

Standards:



EN ISO 11612
A1/B1/C3/D3/E3/F1



21 TO WEAR

All other versions are available via our 21 TO WEAR® high-speed delivery service. For more information see the model overview on page 222/223.

FACE GUARD

Accessories

Part number: **12008 7I010 000 15 (KF-4/Z)**

Garment weight: approx. 283 g

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

One size

■ silver

Standards:



EN ISO 11612
A1/B1/C4/D3/E3/F1



PROTECTIVE HELMET PHENOL

Accessories

Part number: **90021 7Z006 011 68**

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

One size (51–64 cm)

■ gold

PROTECTIVE HELMET POLY

Accessories

Part number: **90022 7Z006 012 10**

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)

□ white

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

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

Standards:



EN 397



Standards:



EN 397

EN 50365



Standards:



EN 166



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

HEAT,
SPASHES &
WELDING



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:



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:



ALL-AROUND VISOR CLEAR

Accessories

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

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

 neutral
Standards:



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:



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 1 mm • fits with Flip-Up Mounting (item 90002 7Z019 004 15).

 green
Standards:




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.

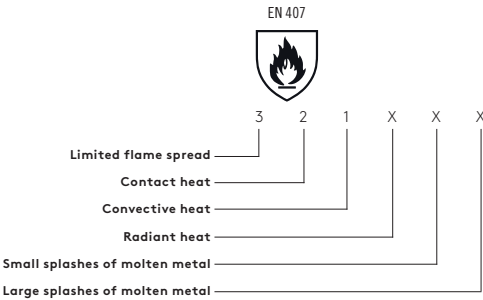
 dark blue



Our new heat protection gloves are available in different variants, lengths and sizes and offer protection against thermal risks according to EN ISO 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.



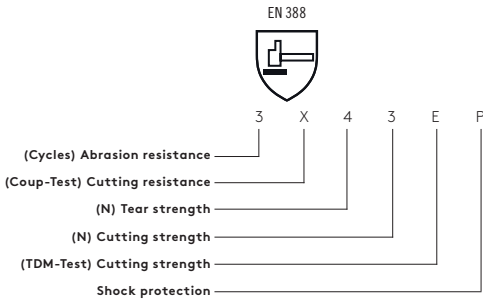
Test	Performance Level			
	1	2	3	4
Combustion behavior				
Afterflame time (in sec.)	< 20	< 10	< 3	< 2
Afterglow time (in sec.)	n.r.	< 120	< 25	< 5
Contact heat				
Contact temperature Tc (in °C)	100	250	350	500
Threshold t1 (in sec.)	> 15	> 15	> 15	> 15
Convective Heat				
Heat Transfer Index HTI (in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

4 means the highest and 1 means the lowest performance level. n.r. means "no requirement". X means "not tested". 0 means "below the minimum requirements".

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

Protective gloves against mechanical risks EN 388:2016

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





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

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

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

METALLISED HEAT PROTECTION GLOVES UP TO 500 °C CONTACT HEAT

ITEM			MATERIAL LAYER CONSTRUCTION			LENGTH	SIZES
			UPPER	ISOLATION	LINING		
1			Polyacrylnitril (Preox), Aramide, chrome split leather	Half wool non-woven	Molleton	approx. 410 mm	
2	EN ISO 407 4 1 3 3 4 4	EN 388 2 X 4 X X	Polyacrylnitril (Preox), Aramide, Para-Aramide	Half wool non-woven Preox-Felt	Molleton	approx. 450 mm	11
3			Polyacrylnitril (Preox), Aramide, Para-Aramide	Half wool non-woven Preox-Felt	Molleton	approx. 440 mm	



3-FINGER GLOVES 410 + LEATHER
Accessories
Part number: 12015 71005 000 2271

Two coloured • thumb and palm of hand with 3-layer construction • leather wedge between index and middle finger • good palm of hand isolation • very good radiant heat protection • high abrasion resistance in palm of hand.

3-FINGER GLOVES 450 + ARAMIDE
Accessories
Part number: 12015 71003 001 2269



Two-coloured • thumb and palm of hand 4-layer construction • very good palm of hand isolation • very good radiant heat protection • good abrasion resistance in palm of hand.

MITTENS 440 + ARAMIDE
Accessories
Part number: 12015 71004 002 2269

Two-coloured • thumb and palm of hand 4-layer construction • very good palm of hand isolation • very good radiant heat protection • good abrasion resistance in palm of hand.

Our new heat protection gloves are available in different variants, lengths and sizes and offer protection against thermal risks according to EN ISO 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

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



5-FINGER GLOVES 370 + LEATHER

Accessories
Part number: 12008 71011 002 2268

5-FINGER GLOVES 440 + LEATHER

Accessories
Part number: 12008 71011 001 2268

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

5-FINGER GLOVES 390 + ARAMIDE



Accessories
Part number: 12008 71012 003 2269

5-FINGER GLOVES 470 + ARAMIDE

Accessories
Part number: 12008 71012 002 2269

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

HEAT PROTECTION GLOVES UP TO 500 °C CONTACT HEAT

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



5-FINGER GLOVES 370, ARAMIDE

Accessories
Part number: 01267 71012 001 20

5-FINGER GLOVES 470, ARAMIDE

Accessories
Part number: 01267 71012 000 20

Single-coloured • finger and palm with 3-layer construction • good thermal insulation of the palm • very high mechanical strength • good abrasion resistance • very good dexterity.

MITTENS GLOVE 390, ARAMIDE

Accessories
Part number: 01267 71007 000 20

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

MITTENS 390 PBI/ARAMIDE

Accessories
Part number: 01191 71013 000 20

Two-coloured • hand and thumb with 4-layer construction • thumb inserted at the side • can be worn on both sides • very good thermal insulation in the hand area • good mechanical strength.

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

GAITERS, HOOK & LOOP FASTENING

Accessories
Part number: 12015 71008 000 15

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

Sale unit: 1 pair



GAITERS, SNAP FASTENING

Accessories
Part number: 12015 71008 001 15

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

Sale unit: 1 pair



SPRING GAITERS

Accessories
Part number: 12015 71009 000 15

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

Sale unit: 1 pair



Nitrile rubber soles with heat-insulated substructure



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.

Sizes: 39–48 · Sale unit: 1 pair

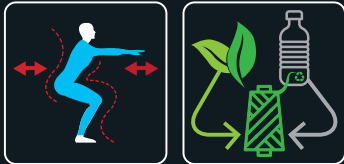
white/grey

Standards:



EN ISO 20349-1

Our new HB-organic 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	navy	IEC 61482-2 APC 1	EN ISO 11612 A1+A2/B1/C1/F1	EN 1149-5	39/40–47/48
2 , 3		52	medium grey	–	–	–	S–2XL
2 , 3		45	navy	–	–	–	S–2XL



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 %.

SHIRT
Heat protection
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.

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

Smart textiles: Activated with water in just a few seconds, the bandana and cooling vest perform an important function in regulating body temperature in work areas with high heat exposure. Antibacterial and with 3D high-tech padding.



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

Single-coloured • V-neck • covered hook&loop fastening for variable width adjustment • torso in short form for health protection: kidney area free of cooling • activated evenly with water in a few seconds without leaving condensation or water drops on clothing • can be put on immediately under any clothing • lowers body temperature to a normal physiological level • outer fabric antibacterial due to natural silver ions • 3D high-tech polyester fleece.



2 and 3 | Antibacterial outer fabric

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

Single-coloured • with ties at the back • back centre with flap for cooling the neck area • activated evenly with water in a few seconds without leaving condensation and water drops on the clothing • can be put on immediately under the helmet/headgear • outer fabric antibacterial due to natural silver ions • 3D high-tech polyester fleece.












MATERIAL: 1 | 54% MODACRYLIC, 44% COTTON (organic), 2% CARBON
2 | and 3 | Outer material: 100% POLYESTER, inner material: 100% COOLINE® POLYESTER
FABRIC WEIGHT: 1 | approx. 195 g/m² · 2 | and 3 | approx. 580 g/m²
FIELDS OF APPLICATION: Heat and flame exposed workplaces, energy suppliers, public services, plant engineering and construction, electricians

ACCESSORIES HEAT, SPLASHES&WELDING

Protective hood and turbular scarf made with Lenzing Viscose FR, the flame-retardant NOMEX® underwear, the robust belt made from certified FR material, and the comfortable and solid knee pads complement your personal heat protection equipment.



ITEM	COLOUR	COLOUR NO.	COLOUR NAME					SIZES
1		461	blackgrey	–	–	–	EN 13911	One size
2		46	black	IEC 61482-2 APC 1	EN ISO 11612 A1/A2/B1/C1/F1	EN 1149-5	–	5–8
3 , 4		11	off white	–	–	–	–	approx. 240 x 165 x 18 mm
5		58	anthracite	–	–	–	–	Length: 90 cm/110 cm/130 cm; Width: 38 mm
6		46	black	–	EN ISO 11612-A1 Material	–	–	

HOOD
Accessories
Part Number: **01261 76024 000 461**

Multifunctional, soft and heat-resistant hood with a pressure-free field of vision • no uncomfortable or annoying head and neck seam • generous elongation: completely covers the neck and shoulder as well as the upper one Back and chest area.



SCARF
Accessories
Part number: **01261 76023 000 46**

Multifunctional, soft and heat-resistant tubular scarf with a length of approx. 41 cm and a width of approx. 23.5 cm • no uncomfortable and annoying seams.



UNDERSHIRT
Accessories
Part number: **01205 7Z015 003 11**

Single-coloured • round neckline • long-sleeve.

UNDERTROUSERS
Accessories
Part number: **01205 7Z016 003 11**

Single-coloured • long • flyless.



When combined with heat protection outerwear, our FR underwear gives you added protection against the effects of heat and flames.

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

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

Sale unit: 1 pair



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

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



MATERIAL: 1| 50 % LENZING VISCOSE FR, 46 % META-ARAMIDE, 3 % ELASTANE, 1 % CARBON ·
2| 68 % LENZING VISCOSE FR, 16 % META-ARAMIDE, 13 % MODACRYLIC, 2 % ELASTANE, 1 % CARBON ·
3| and 4| 100 % ARAMIDE ·
FABRIC WEIGHT: 1| and 2| approx. 200 g/m² · 3| and 4| approx. 180 g/m²
FIELDS OF APPLICATION: Plant, pipe and switchgear construction, electric installations, public services, steel works, electricians, communication, gas and water networks, foundries and fire departments.

CHEMICALS

THESE MATERIALS STRENGTHEN YOUR DEFENCE SYSTEM

The tricky thing about chemicals is that the dangers they pose are sometimes barely noticeable. That's why we use fabrics that ensure that nothing can penetrate to the skin. Suitable underwear included. How good that despite all protection we never lose sight of important aspects such as pleasant material properties and above all: freedom of movement.



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

JACKET

Chemical protection type 6
Part number: **02001 10003 006 56**
Garment weight: approx. 535g

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.



COAT

Chemical protection type 6
Part number: **02001 46001 000 56**
Garment weight: approx. 690g

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. 490g

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



TROUSERS

Chemical protection type 6
Part number: **02001 20003 014 56**
Garment weight: approx. 535g

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 • covered button fly.



BIB AND BRACE TROUSERS

Chemical protection type 6
Part number: **02001 50002 007 56**
Garment weight: approx. 665g

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 • 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 %: 97.5, Sodium hydroxide solution 10 %: 96.1, o-Xylene: 97.1, Butan-1-ol: 96.0, hydrochloric acid 36 %: 99.5, Nitric acid 65 %: 97.4; Penetration index P (%): Sulphuric acid 30 %: 0.0, Sodium hydroxide solution 10 %: 0.0, o-Xylene: 0.3, Butan-1-ol: 0.3, hydrochloric acid 36 %: 0.0, Nitric acid 65 %: 0.0 •
FIELDS OF APPLICATION: Chemical and petrochemical industry, steel industry, automotive industry, battery factories, laboratories and electroplating

Tried and tested – the fabric, certified according to EN 13034 Type 6, is a classic in the field of chemical protection and offers a good and proven wearing comfort.

ITEM	COLOUR	COLOUR NO.	COLOUR NAME		REGULAR SIZES
1, 2, 3		57	mottled grey	EN 13034 Type 6	46–58 & 94–110



Wristbands with covered snap fasteners



JACKET
Chemical protection type 6
Part number: **02002 10003 006 57**
Garment weight: approx. 555 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.

All pockets with flaps and covered snap fasteners

TROUSERS
Chemical protection type 6
Part number: **02002 20003 028 57**
Garment weight: approx. 535 g

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



BIB AND BRACE TROUSERS
Chemical protection type 6
Part number: **02002 50002 054 57**
Garment weight: approx. 650 g

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



MATERIAL: 100 % POLYESTER, FC-EQUIPMENT
FABRIC WEIGHT: approx. 260 g/m²
REPELLENCY AND PENETRATION INDEXES: Repellency index A (%): Sulphuric acid 30 %: 98.8, Sodium hydroxide solution 10 %: 99.4, o-Xylene 24.4, Butan-1-ol: 55.9; Penetration index P (%): Sulphuric acid 30 %: 0.0, Sodium hydroxide solution 10 %: 0.0; o-Xylene 36.4, Butan-1-ol: 0.3
FIELDS OF APPLICATION: Chemical industry, steel industry, automotive industry, battery factories, laboratories.

HB-CHEMcomfort Antistatic

This light-weight fabric combines chemical protection and permanent antistatic properties – a perfect solution for many specialised manufacturing processes.



ITEM	COLOUR	COLOUR NO.	COLOUR NAME			REGULAR SIZES
1		2082	anthracite/dark blue	EN 13034 Type 6	EN 1149-5	46–58 & 94–110
1 , 3 , 4		41	royal			
2		58	anthracite			39/40–47/48



JACKET
Chemical protection type 6
Part number: **02006 10003 006 + COLOUR NO.**
Garment weight: approx. 510 g

JACKET
Chemical protection type 6
Part number: **02006 10053 000 2082**
Garment weight: approx. 510 g

Single-coloured or two-coloured • turn-down collar • 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: **02006 60002 005 + COLOUR NO.**
Garment weight: approx. 470 g

Single-coloured • turn-down collar with added band • closure band with covered snap fasteners on both sides • 1 front pocket on the left with flap • wristband with let-in piece and adjustable snap fasteners.



TROUSERS
Chemical protection type 6
Part number: **02006 20003 028 + COLOUR NO.**
Garment weight: approx. 500 g

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



BIB AND BRACE TROUSERS
Chemical protection type 6
Part number: **02006 50002 054 + COLOUR NO.**
Garment weight: approx. 595 g


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

MATERIAL: 99 % POLYESTER, 1 % CARBON, FC-EQUIPMENT
FABRIC WEIGHT: approx. 240 g/m²
REPELLENCY AND PENETRATION INDEXES: Repellency index A (%): Sulphuric acid 30 %: 99.7, Sodium hydroxide solution 10 %: 99.6, o-Xylene: 94.1, Butan-1-ol: 95.2; Penetration index P (%): Sulphuric acid 30 %: 0.0, Sodium hydroxide solution 10 %: 0.0, o-Xylene: 3.8, Butan-1-ol: 1.2
FIELDS OF APPLICATION: Chemical industry, steel industry, automotive industry, battery factories, laboratories, electroplating

HB-CHEM

HB-CHEMcomfort Antistatic

Also the light-weight coats for ladies and men combine chemical protection and permanent antistatic properties. They are the perfect solution for many specialised manufacturing processes. Available in white, royal blue and anthracite.

ITEM	COLOUR	COLOUR NO.	COLOUR NAME			REGULAR SIZES
1		10	white			36/38–44/46
2		10	white			46–58 & 94–110
		41	royal			
		58	anthracite			



LADIES COAT
Chemical protection type 6
Part number: **02006 40018 000 10**
Garment weight: approx. 580g


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 • sleeve hem width adjustable via inwards covered snap fasteners.



MEN'S COAT
Chemical protection type 6
Part number: **02006 40002 004 10**
Garment weight: approx. 640g

MEN'S COAT
Chemical protection type 6
Part number: **02006 40002 000 + COLOUR NO.**
Garment weight: approx. 640g

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 inwards covered snap fasteners.

MATERIAL: 99 % POLYESTER, 1 % CARBON, FC-EQUIPMENT	
FABRIC WEIGHT: approx. 240 g/m²	
REPELLENCY AND PENETRATION INDEXES: Repellency index A (%): Sulphuric acid 30 %: 99.7, Sodium hydroxide solution 10 %: 99.6, o-Xylene: 94.1, Butan-1-ol: 95.2; Penetration index P (%): Sulphuric acid 30 %: 0.0, Sodium hydroxide solution 10 %: 0.0, o-Xylene: 3.8, Butan-1-ol: 1.2	
FIELDS OF APPLICATION: Chemical industry, steel industry, automotive industry, battery factories, laboratories, electroplating	

HB-CHEM FUNCTIONAL UNDERWEAR



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		11	off-white	6–8

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

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



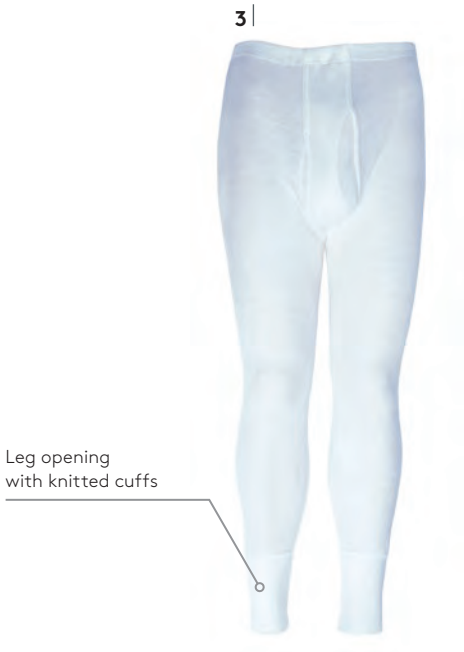
UNDERSHIRT SHORT-SLEEVED
Chemical protection type 6
Part number: **02008 76009 000 11**
Garment weight: approx. 170g


Edged neckline • short-sleeved opening 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. 200g

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



MATERIAL: 100 % POLYACRYLIC	
FABRIC WEIGHT: approx. 170 g/m² • CHARACTERISTICS: Rib knit, modern and form-fitting design	
FIELDS OF APPLICATION: Underwear for: chemical industry, steel industry, automotive industry, battery factories, laboratories, electroplating	

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.

ITEM	COLOUR	COLOUR NO.	COLOUR NAME			REGULAR SIZES
1 , 2		2161	fluorescent orange-red/hydron blue	<small>EN ISO 20471 Class 2</small>	<small>EN 13758-2 tested upon UV50+</small>	Unisex S-2XL
		2162	fluorescent yellow/hydron blue			

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.



1 and 2|
Segmented reflective stripes, suited for industrial laundry

1 and 2|
HB Logo as direct embroidery on the back




T-SHIRT

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.



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

HI-VISION® Basic

Our HI-VISION® Basic fleece jacket can be combined, following the layer principle, with the HI-VISION® Basic jacket (page 124). If it is worn stand-alone it offers slight protection against cold during the transition seasons between autumn, winter and spring.

ITEM	COLOUR	COLOUR NO.	COLOUR NAME	REGULAR SIZES
1		3360	anthracite/stone grey/black	46/48-58/60



Based on the layer principle this fleece jacket is combinable with our HI-VISION® Basic jacket page 124.

Useful french pocket

Front with zip

FLEECE JACKET

Outdoor
Part number: **07025 1M094 000 3360**
Garment weight: approx. 570 g

Two-coloured • stand-up collar with fastening tab for attaching inside outer jacket • can be worn closed up to the top or open • front with zip • 1 chest pocket on left and 2 side pockets with zips • sleeve with elasticated knitted cuffs.

MATERIAL: 100 % POLYESTER ·
FABRIC WEIGHT: approx. 260 g/m² ·
FIELDS OF APPLICATION: Technical retailers, suppliers, disposers, works in the factory or public traffic area, car wash, logistic centres · offers protection against slight cold during transitional seasons

HI-VISION® Basic

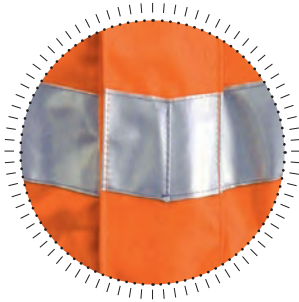
This warning and weather protection collection is constructed according to the multi-layer principle and is suitable as transitional clothing for very changeable weather as well as PPE for winter. The jacket with zip-in fleece, the parka (see page 126) with removable thermal jacket and the bib and brace trousers offer a variety of combination options.



ITEM	COLOUR	COLOUR NO.	COLOUR NAME			REGULAR SIZES
1		2257	fluorescent orange/dark navy	 EN ISO 20471 Class 2+ *from size 46/48 Class 3	 EN 343 Class 3/3	46/48-58/60
		2007	fluorescent yellow/dark navy			
		2103	fluorescent red/black			
2		2257	fluorescent orange/dark navy	 EN ISO 20471 Class 1		



Reflective stripes on luminous orange for better visibility



1| Combinable with our HI-VISION® Basic fleece jacket on page 123.

JACKET REFLECTIVE STRIPES

High-Visibility & Weather Protection
Part number: **01158 1M033 001 + COLOUR NO.**
Garment weight: approx. 1,220 g

Two-coloured • outer material constructed as Z-liner • with welded seams • high stand-up collar with built-in hood and fold-down visor • fastener strip with concealed • water-repellent zip • with mesh in back area • 2 chest pockets with flaps and hook&loop fasteners • 2 side pockets with hook&loop fasteners • water-repellent zip on side • 1 inside chest pocket on left with hook&loop fastener • waist and hem can be adjusted with drawstring • sleeve width can be adjusted with hook&loop fastener • with repair opening • with reflective stripes in body language.



BIB AND BRACE TROUSERS REFLECTIVE STRIPES

High-Visibility & Weather Protection
Part number: **01158 5M006 000 2257**
Garment weight: approx. 765 g

Two-coloured • outer fabric constructed as Z-liner • with welded seams • dirtprone areas in blue • adjustable stretch straps with flex-lock clip • 1 bib pocket • 2 side seam pockets • 1 pocket for folding rule on back right of trouser leg • slit with zip • side access with button closure • adjustable foot width through press stud closure • with reflective strips on hip and legs.

Leghem adjustable via snap fastener



MATERIAL: 100 % POLYESTER









FABRIC WEIGHT: approx. 195 g/m²

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

HI-VISION®

HI-VISION® Basic

With the parka with removable thermal jacket, the HI-VISION® Basic collection covers a complete clothing set for warning and weather protection. Thanks to taped seams and a high stand-up collar with integrated hood, HI-VISION® Basic offers the right solution for all weather conditions.

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				



PARKA INCL. THERMAL JACKET

High-Visibility & Weather Protection
Part number: **05028 1M006 004 + 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
FIELDS OF APPLICATION: Technical retailers, suppliers, disposers, works in the factory or public traffic area, car wash, logistic centres

HI-VISION®

HB-StormBase®

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 underwear.

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			



PARKA INCL. QUILTED JACKET

Weather Protection
Part number: **05028 19001 001 2041**
Garment weight: approx. 1,440 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 • 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
FIELDS OF APPLICATION: Technical retailers, suppliers, disposers, works in the factory or public traffic area, car wash, logistic centres

HIVIS &
WEATHER



COLD PROTECTION
EVEN 49 DEGREES BELOW ZERO
CAN'T FRIGHTEN YOU

Does your job sometimes feel as if you have been transported to snow-covered expanses?
Then you will find the right outfit in our cold protection range. The 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 out.



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



Adjustable faux fur collar



Preformed sleeves

Reflective tape

Covered knitted cuffs

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 • 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.



Zip-through leg zippers with inner cover



Preformed legs

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

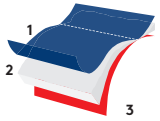
Without front zip • entry via zip-flies on both sides.


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: 1) UPPER MATERIAL: 100 % POLYAMIDE · 2) PADDING: TEMPEX® HIGH-BULK, INSULATING NON-WOVEN · 3) INNER LINING: 100 % POLYESTER ·

FABRIC WEIGHT: approx. 515 g/m² ·

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



 COLD STORE

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



JACKET

Chillroom (0–10 °C)
Part number: **09044 1K048 000 2040**
Garment weight: approx. 1,300g

LADIES JACKET

Chillroom (0–10 °C)
Part number: **09044 1K049 000 2040**
Garment weight: approx. 1,205g

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. 560g

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. 1,290g

LADIES TROUSERS


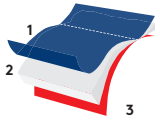
Chillroom (0–10 °C)
Part number: **09044 2K001 002 2040**
Garment weight: approx. 1,150g

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: 1) UPPER MATERIAL: 100 % POLYAMIDE · 2) PADDING: TEMPEX® HIGH-BULK, INSULATING NON-WOVEN · 3) INNER LINING: 100 % POLYESTER ·

FABRIC WEIGHT: approx. 415 g/m² ·

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



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		2040	navy/red	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



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

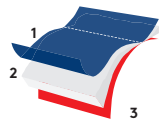
TROUSERS ORDER PICKER WITH ACRYLIC FUR LINING

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.



CONSTRUCTION: 1) UPPER MATERIAL: 100 % POLYAMIDE · 2) PADDING: TEMPEX® HIGH-BULK, INSULATING NON-WOVEN · 3) INNER LINING: 100 % POLYESTER ·
FABRIC WEIGHT: approx. 520 g/m² · approx. 560 g/m² (with acrylic fur lining) ·
FIELDS OF APPLICATION: Retail and Wholesale, Research, Catering and Restaurants, Cool chain logistics, Logistics centres, Pharmaceutical industry



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 // low

COLD
PROTECTION



ITEM	COLOUR	COLOUR NO.	COLOUR NAME		REGULAR SIZES
1		2040	navy/red	EN 342 Y: 0,292 (R) m² K/W AP: Class 2	46/48-58/60
2				EN 342 Y: 0,411 (B) m² K/W AP: Class 2	
3 , 4				EN 342 Y: 0,404 (B) m² K/W Y: 0,398 (R) m² K/W (Plus) AP: Class 2	
5				-	



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.



1 to 5 |

Circumferential reflective tape on chest and 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.



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.

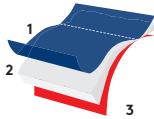
Two-coloured • adjustable suspenders • raised back • full-length leg zippers covered inwards • front zipper • side pockets • reinforced hem made of the outer fabric • circumferential reflective stripes on the legs • no Hi-Vis protective clothing acc. to EN ISO 20471 and EN 17353 • extra-strong non woven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

COVERALL FORKLIFT DRIVER

Cold Store Plus (-49 °C)
Part number: **01183 3K003 000 2040**
Garment weight: approx. 3,090 g

Two-coloured • tight-fitting collar of faux fur with hook&loop fastener • 2 chest pockets • 2 front pockets • covered 2-way front zipper • knitted cuffs • belt • elastic waistband in the back • leg zippers covered inwards • additional insulation at back and knees made of acrylic fur lining • reinforced seat and hem made of the outer fabric • circumferential reflective stripe on chest and legs • no Hi-Vis protective clothing acc. to EN ISO 20471 and EN 17353 • outer-layer hard-wearing • extra-strong non woven insulation.

CONSTRUCTION: 1) UPPER MATERIAL: 100 % POLYAMIDE • 2) PADDING: TEMPEX® HIGH-BULK, INSULATING NON-WOVEN • 3) INNER LINING: 100 % POLYESTER •
FABRIC WEIGHT: COLD STORE approx. 520 g/m² • COLD STORE PLUS approx. 630 g/m² approx. 645 g/m² (Coverall Forklift Driver) •
FIELDS OF APPLICATION: Retail and Wholesale, Research, Catering and Restaurants, Cool chain logistics, Logistics centres, Pharmaceutical industry



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
2				–	46/48–58/60
3		45	navy	EN 342 Y: 0,391 (B) m² K/W AP: Class 2	Men: 46/48–58/60 Ladies: 36/38–44/46



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.



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.

TROUSERS

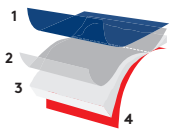
Chillroom (0–10 °C)
Part number: **01183 2K008 006 45**
Garment weight: approx. 1,485 g

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 • 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.

CONSTRUCTION: 1) UPPER MATERIAL: 100 % POLYAMIDE · 2) CHARMEUSE · 3) PADDING: TEMPEX® HIGH-BULK, INSULATING NON-WOVEN · 4) INNER LINING: 100 % POLYESTER ·
FABRIC WEIGHT: approx. 445 g/m² ·
FIELDS OF APPLICATION: Retail and Wholesale, Research, Catering and Restaurants, Cool chain logistics, Logistics centres, Pharmaceutical industry



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		2040	navy/red		Men: 46/48-58/60 Ladies: 36/38-44/46
2		45	navy		
3		2040	navy/red		46/48-58/60
4					



1, 2, 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.



Raised back

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 • 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.



1, 3 and 4|
Tight-fitting collar
of faux fur

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

COAT VISITOR

Cold Store (-49 °C)
Part number: **01183 4K001 000 2040**
Garment weight: approx. 1,720 g

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.



Additional knee
insulation made of
acrylic fur lining

ORDER PICKER COVERALL

Cold Store (-49 °C)
Part number: **01183 3K001 000 2040**
Garment weight: approx. 2,600 g

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.

CONSTRUCTION: 1) UPPER MATERIAL: 100 % POLYAMIDE · 2) CHARMEUSE · 3) PADDING: TEMPEX® HIGH-BULK, INSULATING NON-WOVEN · 4) INNER LINING: 100 % POLYESTER ·

FABRIC WEIGHT: approx. 545 g/m² ·

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

COLD STORE PLUS
PPE for low-movement work at temperatures up to -49 °C, like forklift driver.
INTENSITY OF MOVEMENT: low

ITEM	COLOUR	COLOUR NO.	COLOUR NAME		REGULAR SIZES
1		2040	navy/red	EN 342 Y: 0,508 (B) m² K/W Y: 0,511 (B) m² K/W (Plus) AP: Class 2	Men: 46/48-58/60 Ladies: 36/38-44/46
2		45	navy	EN 342 Y: 0,508 (B) m² K/W	

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



Raised back

Additional knee
insulation made of
acrylic fur lining



JACKET FORKLIFT DRIVER
Cold Store Plus (-49 °C)
Part number: **01183 1K013 000 2040**
Garment weight: approx. 1,840 g

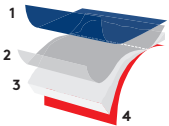
JACKET FORKLIFT DRIVER PLUS
Cold Store Plus (-49 °C)
Part number: **01183 1K018 000 2040**
Garment weight: approx. 2,090 g
Additional acrylic fur lining on the back.

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.

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: 1) UPPER MATERIAL: 100 % POLYAMIDE · 2) CHARMEUSE · 3) PADDING: TEMPEX® HIGH-BULK, INSULATING NON-WOVEN · 4) INNER LINING: 100 % POLYESTER ·
FABRIC WEIGHT: approx. 645 g/m² ·
FIELDS OF APPLICATION: Retail and Wholesale, Research, Catering and Restaurants, Cool chain logistics, Logistctics centres, Pharmaceutical industry



More sizes available – see size table on page 228

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 , 2 , 3		45	navy	Men: 46/48-58/60 Ladies: 36/38-44/46

1|



2|



Covered front zipper with
chin protector

Inside phone pocket

Full-length 2-way leg
zippers covered inwards



PARKA
Chillroom (0-10 °C)
Part number: **01174 1K015 000 45**
Garment weight: approx. 1,315 g

LADIES PARKA
Chillroom (0-10 °C)
Part number: **01174 1K016 000 45**
Garment weight: approx. 1,280 g

Single-coloured • fluffy collar made of fleece with press buttons • left-side chest pocket with pencil pocket • 2 front pockets • inside chest pocket • inside phone pocket • inside pocket and cable guide for a pick-by-voice computer • covered front zipper with chin protector • comfortable hook in-support • knitted cuffs • elastic waistband in the back • circumferential reflective piping in the chest area.

BODY WARMER
Chillroom (0-10 °C)
Part number: **01174 1K027 000 45**
Garment weight: approx. 850 g

LADIES BODY WARMER
Chillroom (0-10 °C)
Part number: **01174 1K028 000 45**
Garment weight: approx. 830 g

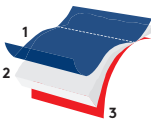
Single-coloured • fluffy collar made of fleece with press buttons • left-side pocket with pencil pocket • 2 front pockets • inside chest pocket • inside phone pocket • covered front zipper with chin protector • circumferential reflective piping in the chest area.

TROUSERS
Chillroom (0-10 °C)
Part number: **01174 2K013 000 45**
Garment weight: approx. 1,180 g

LADIES TROUSERS
Chillroom (0-10 °C)
Part number: **01174 2K014 000 45**
Garment weight: approx. 1,140 g

Single-coloured • adjustable suspenders • raised back • covered front zipper • full-length 2-way leg zippers covered inwards • ergonomic cut • reinforced hem made of the outer fabric • reflective piping in the leg area.

CONSTRUCTION: 1) UPPER MATERIAL: 100 % POLYAMIDE · 2) PADDING: TEMPEX® HIGH-BULK, INSULATING NON-WOVEN · 3) INNER LINING: 100 % POLYESTER ·
FABRIC WEIGHT: approx. 415 g/m² ·
FIELDS OF APPLICATION: Retail and Wholesale, Research, Catering and Restaurants, Cool chain logistics, Logistics centres, Pharmaceutical industry



More sizes available – see size table on page 228

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

COLD
PROTECTION



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		2237	white/silver grey	EN 342 Y: 0,371 (B) m² K/W AP: Class 2	
3		3116	white/silver grey/ fluorescent yellow	EN 342 Y: 0,417 (B) m² K/W AP: Class 2	
4		2237	white/silver grey	EN 342 Y: 0,267 (R) m² K/W AP: Class 2	
5		3116	white/silver grey/ fluorescent yellow	EN 342 Y: 0,417 (B) m² K/W AP: Class 2	
6		2237	white/silver grey	EN 342 Y: 0,417 (B) m² K/W AP: Class 2	



JACKET

Chillroom (0–10 °C)
Part number: **01174 1K007 001 3116**
Garment weight: approx. 1,180 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 chest and arm areas • lighter non-woven insulation.



BODY WARMER

Chillroom (0–10 °C)
Part number: **01174 1K024 000 3116**
Garment weight: approx. 590 g

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. 1,200 g

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.

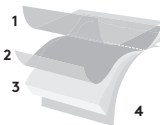


TROUSERS

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: 1) UPPER MATERIAL: 100 % POLYAMIDE · 2) CHARMEUSE ·
3) PADDING: TEMPEX® HIGH-BULK, INSULATING NON-WOVEN ·
4) INNER LINING: 100 % POLYESTER ·
FABRIC WEIGHT: CHILLROOM approx. 415 g/m² · COLD STORE approx. 515 g/m² ·
FIELDS OF APPLICATION: Food industry



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



Forearm abrasion protection

1, 2 and 3|
Waistband with draw-string

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.



Female cut

1, 2 and 3|
2 side pockets with zipper

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.



Turtleneck

FLEECE SHIRT
Intermediate clothing
Part number: **07021 8K000 000 45**
Garment weight: approx. 290 g

Single-coloured • turtleneck • front zipper • 2 side pockets with zipper • waistband with draw-string • extra soft.



Elastic stretch
waistband

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

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.



1| Pre-formed sleeves with optimised length and drop-tail

Female cut

Ladies

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.



1 and 2| Pencil pocket on the left side of the chest

Female cut

Ladies

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.



Pre-formed legs

Legs with fleece at the bottom

Ladies

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 • 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.



4 and 5| Inside chest pocket with pencil pocket

Men

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.



Men

Leg end with knitted cuffs

CONSTRUCTION: 1) UPPER MATERIAL: 100 % POLYAMIDE · 2) PADDING: DIAMOND NON-WOVEN INSULATION · 3) INNER LINING: 100 % POLYESTER ·

FABRIC WEIGHT: approx. 245 g/m²

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 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 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 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 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.



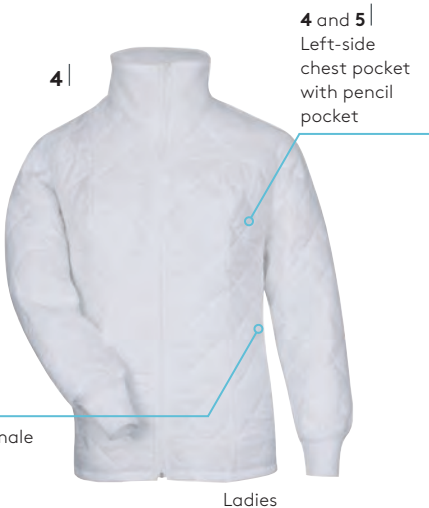
JACKET

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 • 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.



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: 1) UPPER MATERIAL: 100 % POLYAMIDE · 2) DIAMOND NON-WOVEN INSULATION ·

3) 100 % POLYESTER INNER LINING ·

FABRIC WEIGHT: approx. 245 g/m²



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.

COLD
PROTECTION

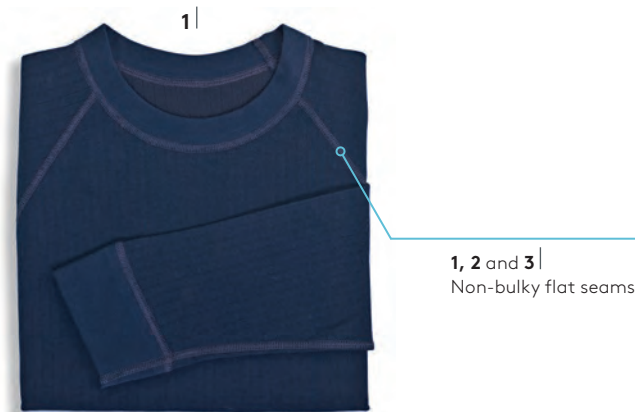


UNDERSHIRT LONG-SLEEVE

Accessories
Part number: **04036 7Z015 000 45**
Garment weight: approx. 215 g

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

Material: 55 % Polyester, 45 % Cotton
Sizes: 6–8
■ navy



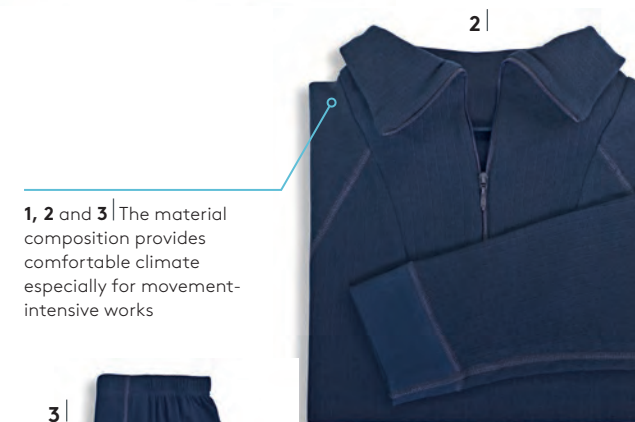
1, 2 and 3 |
Non-bulky flat seams

UNDERSHIRT TROYER LONG-SLEEVE

Accessories
Part number: **04036 7Z015 002 45**
Garment weight: approx. 230 g

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

Material: 55 % Polyester, 45 % Cotton
Sizes: 6–8
■ navy



1, 2 and 3 | The material composition provides comfortable climate especially for movement-intensive works

UNDERPANTS LONG

Accessories
Part number: **04036 7Z016 000 45**
Garment weight: approx. 205 g

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

Material: 55 % Polyester, 45 % Cotton
Sizes: 6–8
■ navy



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

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



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® CLASSIC 2.0 collection

HOOD CLASSIC

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

Single-coloured • tight-fitting knitted neck border • 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 neck border • 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 neck border • 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

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

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

One size
Sale unit: 1 piece
■ black



BALACLAVA DOUBLE-LAYERED

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



INSULATED SAFETY HELMET

Accessories
Part number: **90007 7Z006 000 2279**

Two-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.

INSULATING INSERT

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

One size
Sale unit: 1 piece
■ orange/dark blue
■ dark blue
Standards:



Removable, washable insulated insert

FLEECE NECK WARMER

Accessories
Part number: **07034 75000 000 46**

Single-coloured • soft fleece material 2LIFE® • made of 100 % recycled Polyethylene Terephthalate • suited for industrial laundry.

One size
Sale unit: 1 piece
■ black



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.



Soft lap seam on the back

With us you will find the right cold protection gloves for your activity in the cold store and chillroom area – suitable for a wide range of applications in trade as well as in industry, logistics and research. In addition to our models for order pickers and forklift drivers with certified protection against cold and mechanical risks, we also offer fleece and underwear gloves.



Our range includes ten different glove models for order pickers in different manufactures and designs as 3-finger and 5-finger gloves. We use high quality materials such as nappa leather, full cowhide, neoprene and Thinsulate. Additionally we offer as well as double insulated gloves for forklift drivers.

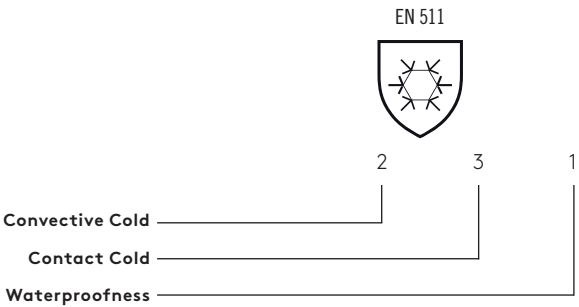
You can recognize the different models by the name of the item:
Models with the designation **KNIT** have a knit cuff for a snug fit.
Models with the designation **GRIP** have a trim for additional grip safety on the fingers.

For our cold protection gloves certified according to the EN 511 standard, the performance levels are also indicated in the name of the item.

Performance levels for protective gloves against cold according to EN 511

Test	Performance Level			
	1	2	3	4
Convective Cold Thermal Insulation/ _{TR} (in m² K/W) (Insulation value)	0,10 ≤ / _{TR} < 0,15	0,15 ≤ / _{TR} < 0,22	0,22 ≤ / _{TR} < 0,30	0,30 ≤ / _{TR}
Contact Cold Thermische Isolation/ _{TR} (in m² K/W) (Widerstandswerte)	0,025 ≤ R < 0,050	0,050 ≤ R < 0,100	0,100 ≤ R < 0,150	0,150 ≤ 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".



Performance levels for protective gloves against mechanical risks according to EN 388

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	COLOUR	COLOUR NO.	COLOUR NAME			SIZES	SALE UNIT
1		2049	black/middle grey	EN 511 1 2 0	EN 388 2 1 4 1 X	7–11	1 Pair
2		2099	middle grey/black	EN 511 2 2 0	EN 388 2 2 3 2 X	8–10	
3		2049	black/middle grey	EN 511 2 2 0	–	9–10	

GLOVES TK PRO
Accessories
Part number: **04039 7Z000 010 2049**

Two-coloured • ergonomically designed fingers • backs of hands made of moisture-resistant Neoprene • robust inside hand protection • reinforced index finger • sewn in cuff with pull cord • warming acrylic lining • reflective piping • hard-wearing • suitable for order pickers.



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.



GLOVES 2 2 0, KNIT 2
Accessories
Part number: **14006 7Z000 015 2049**

Two-coloured • backs of hands made of nappa leather • Palms made of durable, water-resistant smooth leather • knitted cuffs • acrylic fur lining insulation up to the start of the cuff • suitable for order pickers.



TEMPEX® THERMO ACCESSORIES

Our cold protection gloves for order pickers 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 chillroom area between 0 °C and 10 °C. All models are made of high-quality materials and are elaborately manufactured.



ITEM	COLOUR	COLOUR NO.	COLOUR NAME		SIZES	SALE UNIT
1		2037	navy/yellow	EN 511 231	8-11	1 Pair
2					8-10	
3					10, 12	
4		2275	white/brown	EN 511 220	10, 12	
5					10	
6						

GLOVES 2 3 1
Accessories
Part number: 04043 7Z000 012 2037

Two-coloured • backs of hands made of watertight ripstop nylon • palms made of watertight full grain leather • cuff made of top grain split leather • acrylic fur lining insulation up to the start of the cuff • suitable for order pickers.

GLOVES 2 3 1, KNIT
Accessories
Part number: 04043 7Z000 001 2037

Two-coloured • backs of hands made of watertight ripstop nylon • palms made of watertight full grain leather • knitted cuffs • acrylic fur lining insulation up to the start of the cuff • suitable for order pickers.

GLOVES 2 3 1, GRIP
Accessories
Part number: 04047 7Z000 009 2037

Two-coloured • backs of hands made of watertight ripstop nylon • palms made of watertight full grain leather • cuff made of top grain split leather • acrylic fur lining insulation up to the start of the cuff • burling on 3 fingers and the thumbs for grip safety • suitable for order pickers.



GLOVES 2 2 0
Accessories
Part number: 14009 7Z000 014 2275

Two-coloured • backs of hands made of nappa leather • palms made of Robustan leather • cuff made of top grain split leather • acrylic fur lining insulation up to the start of the cuff • suitable for order pickers.



GLOVES 2 2 0, KNIT
Accessories
Part number: 14009 7Z000 008 2275

Two-coloured • backs of hands made of nappa leather • palms made of Robustan leather • knitted cuffs • acrylic fur lining insulation up to the start of the cuff • suitable for order pickers.



GLOVES 2 2 0, KNIT & GRIP
Accessories
Part number: 14005 7Z000 016 2275

Two-coloured • backs of hands made of nappa leather • palms made of Robustan leather • knitted cuffs • knitted pile insulation up to the start of the cuff • burling on 3 fingers and the thumbs for grip safety • suitable for order pickers.



In addition, we have specially insulated gloves for forklift driver work with certified protection against cold according to EN 511 in our range, as well as various designs of fleece or knitted gloves and undergloves.



ITEM	COLOUR	COLOUR NO.	COLOUR NAME			SIZES	SALE UNIT
1		2275	white/brown	EN 511 220		10	1 Pair
2		46	black	-	-	8, 10	
3						8-11	
4		45	navy	-	EN 388 214 XX	8-10	
5						One size	
6							

GLOVES 2 2 0, 3-FINGERS

Accessories
Part number: 14009 7Z001 000 2275

Two-coloured • backs of hands made of nappa leather • palms made of Robustan leather • cuff made of top grain split leather • doubleinsulation made of foam and acrylic fur lining • suitable for forklift drivers.



Field of application up to -30°C

FLEECE GLOVES, GRIP

Accessories
Part number: 07029 7Z000 002 46

Single-coloured • made of polar fleece • palms and 4 fingers covered with leather for grip safety • elastic band at the wrist • extra soft • insulation made of fleece lining with Thinsulate 100 g.



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, KNIT & GRIP

Accessories
Part number: 07029 7Z000 003 46

Single-coloured • made of polar fleece • palms and 4 fingers covered with leather for grip safety • knitted cuffs • extra soft • insulation made of fleece lining with Thinsulate 100 g.



FLEECE GLOVES, RUBBER GRIP

Accessories
Part number: 07029 7Z000 000 46

Single-coloured • made of polar fleece • palms covered with tough rubber nubs for grip safety • elastic band at the wrist • extra soft • insulation made of fleece lining with Thinsulate 100 g.



KNITTED GLOVES, GRIP

Accessories
Part number: 04037 7Z000 005 45

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



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.



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 toecaps ensure additional safety. Easy to put on and featuring a genuine lambswool lining, a high level of comfort is guaranteed.

COLD
PROTECTION



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

Insulated steel toecap



Non-slip and cold-resistant outsole



Easy-to-put-on-zipper



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



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.



Like all Flammgard® products, this day service clothing 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: 44–54, 24–27, 90–106 Ladies: 36–48, 18–23, 72–92



Comfortable side folds

Adapters available for any kind of shoulder tunnel



Elasticated hem

BLOUSON
Dayshift firefighters
Part number: **01041 10160 000 48**
Garment weight: approx. 1,100 g

LADIES BLOUSON
Dayshift firefighters
Part number: **01041 10168 005 48**
Garment weight: approx. 1,040 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 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.



Reinforced elbows




Hook&loop tape for name badge

JACKET
Dayshift firefighters
Part number: **01041 10162 000 48**
Garment weight: approx. 1,150 g

LADIES JACKET
Dayshift firefighters
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 side pockets as piped pockets with zips • 2 inside pockets • wristbands adjustable via hook&loop • reinforced elbows • hem with drawstring and safety catch • back with yoke partition.

MATERIAL: 49 % ARAMIDE, 50 % VISCOSE FR, 1 % CARBON	
FABRIC WEIGHT: approx. 300 g/m²	
FIELDS OF APPLICATION: Certified day shift wear for firemen	

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: 44-54, 24-27, 90-106 Ladies: 36-48, 18-23, 72-92
4		2051	dark blue/yellow	-	-	44-54, 24-27, 90-106
5		46	black	-	-	S-2XL
		45	navy	-	-	

TROUSERS

Dayshift firefighters
Part number: **01041 20086 000 48**
Garment weight: approx. 730 g

LADIES TROUSERS

Dayshift firefighters
Part number: **01041 20117 000 48**
Garment weight: approx. 700 g

TROUSERS, ELASTIC WAISTBAND

Dayshift firefighters
Part number: **01041 20109 000 48**
Garment weight: approx. 730 g

TROUSERS WITH REFLECTIVE TAPE

Dayshift firefighters
Part number: **01041 20086 008 48**
Garment weight: approx. 770 g
Reflective stripes parallel to the seam • no Hi-Vis protective clothing acc. to EN ISO 20471 and EN 17353.

LADIES TROUSERS WITH REFLECTIVE TAPE

Dayshift firefighters
Part number: **01041 20117 003 2051**
Garment weight: approx. 740 g
Reflective stripes parallel to the seam • no Hi-Vis 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

Flap with hook&loop fastening.

Name badges

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



SOFTSHELLJACKET

Dayshift firefighters
Part number: **11001 10161 014 46**
Garment weight: approx. 1,070 g

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 • sleeves with adjustable wristbands via covered snap fastener • with black mesh lining.

Shoulder tunnel for rank badge



FLEECE JACKET

Dayshift firefighters
Part number: **07001 10151 000 45**
Garment weight: approx. 700 g

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.



MATERIAL: 3 | 49 % ARAMIDE, 50 % VISCOSE FR, 1 % CARBON · 4 | 94 % POLYESTER, 6 % CARBON · 5 | 100 % POLYESTER ·
FABRIC WEIGHT: 3 | and 5 | approx. 300 g/m² · 4 | approx. 260 g/m² ·
FIELDS OF APPLICATION: Certified day shift wear for firemen



Our Flammgard® collection North Rhine-Westphalia 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			Men: 44–54, 24–27, 90–106 Ladies: 36–48, 18–23, 72–92
2						



BLOUSON
Dayshift firefighters
Part number: **01056 10149 000 488**
Garment weight: approx. 1,125 g

LADIES BLOUSON
Dayshift firefighters
Part number: **01056 10168 000 488**
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 piped pockets with zips 1 Napoleon pocket • 2 inside pockets • adjustable cuff width with concealed 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.

TROUSERS (HuPF PART 2)
Dayshift firefighters
Part number: **01056 20106 000 488**
Garment weight: approx. 770 g

LADIES TROUSERS
Dayshift firefighters
Part number: **01056 20117 000 488**
Garment weight: approx. 740 g

TROUSERS WITHOUT CARGO POCKET
Dayshift firefighters
Part number: **01056 20106 001 488**
Garment weight: approx. 740 g

LADIES TROUSERS WITHOUT CARGO POCKET
Dayshift firefighters
Part number: **01056 20117 001 488**
Garment weight: approx. 710 g

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




ACCESSORIES
Accessories

Also available for North Rhine-Westfalia blouson:

Adapter for rank badge
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	
FIELDS OF APPLICATION: Certified day shift wear for firemen North Rhine-Westfalia	

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 3		2240	black blue/red			Men: 44–54, 24–27, 90–106 Ladies: 36–48, 18–23, 72–92

BLOUSON
Dayshift firefighters
Part number: **01056 10150 025 2240**
Garment weight: approx. 1,040 g

LADIES BLOUSON
Dayshift firefighters
Part number: **01056 10163 021 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.



JACKET
Dayshift firefighters
Part number: **01056 10159 010 2240**
Garment weight: approx. 1,060 g

LADIES JACKET
Dayshift firefighters
Part number: **01056 10169 005 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.



TROUSERS
Dayshift firefighters
Part number: **01056 20103 001 2240**
Garment weight: approx. 690 g

LADIES TROUSERS
Dayshift firefighters
Part number: **01056 20111 003 2240**
Garment weight: approx. 670 g

TROUSERS ACC. TO VWV
Dayshift firefighters
Part number: **01056 20110 000 2240**
Garment weight: approx. 690 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.



Also available with two welt pockets with covered zips acc. to VWV



ACCESSORIES
Accessories

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

Adapter for rank badge
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	
FIELDS OF APPLICATION: Certified day shift wear for firemen Baden-Württemberg	

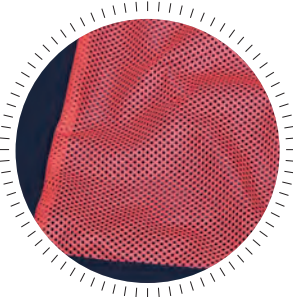
For Baden-Württemberg, there are an additional softshell jacket with black or red lining as well as a fleece jacket for colder days.
Both jackets are also suitable for use as day-shift wear.

ITEM	COLOUR	COLOUR NO.	COLOUR NO.	REGULAR SIZES
4		2046	black/red	44-54, 24-27, 90-106
5		2040	navy/red	S-2XL

SOFTSHELLJACKET
Dayshift firefighters
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**)



FLEECE JACKET
Dayshift firefighters
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.



Hook&loop fastener for name badge



Hem with ribbed structure

MATERIAL: 4 | 94 % POLYESTER, 6 % ELASTANE · 5 | 100 % POLYESTER ·
FABRIC WEIGHT: 4 | approx. 300 g/m² · 5 | approx. 260 g/m² ·
FIELDS OF APPLICATION: Day shift wear for firemen Baden-Württemberg



All 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	Men: 44-54, 24-27, 90-106 Ladies: 36-48, 18-23, 72-92

BLOUSON
Dayshift firefighters
Part number: **01056 10150 026 2240**
Garment weight: approx. 1,040 g

LADIES BLOUSON
Dayshift firefighters
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.



Loop for radio antenna micro

JACKET
Dayshift firefighters
Part number: **01056 10198 002 2240**
Garment weight: approx. 1,060 g

LADIES JACKET
Dayshift firefighters
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.



MATERIAL: 59 % ARAMIDE, 40 % VISCOSE FR, 1 % CARBON ·
FABRIC WEIGHT: approx. 260 g/m² ·
FIELDS OF APPLICATION: Certified day shift wear for firemen 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 ISO 13688 HuPF 2* *only signed men's trousers	Men: 44-54, 24-27, 90-106 Ladies: 36-48, 18-23, 72-92
4		2046	black/red	-	-	44-54, 24-27, 90-106
5		2040	navy/red	-	-	S-2XL

TROUSERS

Dayshift firefighters
Part number: **01056 20103 016 2240**
Garment weight: approx. 690g

LADIES TROUSERS

Dayshift firefighters
Part number: **01056 20137 001 2240**
Garment weight: approx. 670g

TROUSERS ACC. TO VWV (HuPF PART 2)

Dayshift firefighters
Part number: **01056 20110 002 2240**
Garment weight: approx. 710g

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

ACCESSORIES

Accessories

Also available for Saarland blouson, jacket, softshell and fleece:

Adapter for rank badge

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

Dayshift firefighters
Part number: **11001 10161 011 2046**
Garment weight: approx. 1,070g

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

FLEECE JACKET

Dayshift firefighters
Part number: **07001 10152 001 2040**
Garment weight: approx. 700g

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.



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 ·
FIELDS OF APPLICATION: Certified day shift wear for firemen Saarland



The all-rounder for technical assistance: The light and robust fabric protects against heat and flames.
The parka is also virus- and bacteria-proof and protects against rain. The zip-in fleece jacket keeps you warm on colder days.
The clothing complies with the high-visibility vest exemption according to DGUV.

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)	44-54, 24-27, 90-106
2		2395	black blue/black	-	-	
3		2047	black/navy	-	-	S-2XL



Virus and bacteria-proof due to laminate according to ISO 16603 and ISO 16604



Torch holder with deflection flap for stable hold

Ergonomically formed sleeves with elbow reinforcement

PARKA
Technical assistance FR
Part number: **01280 19005 001 3271**
Garment weight: approx. 1,300 g

Single-coloured • segmented reflective stripes • no Hi-Vis protective clothing acc. to EN ISO 20471 and EN 17353 • 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 fulfill DGUV 205-20 Information • virus and bacteria-proof due to laminate according to ISO 16603 and ISO 16604 • zippers to zip in a fleece jacket.

TROUSERS
Technical assistance FR
Part number: **01056 20147 000 2395**
Garment weight: approx. 810 g

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 Hi-Vis protective clothing acc. to EN ISO 20471 and EN 17353.



Elasticated waist in the side

Reinforcement material on knee and hem

FLEECE JACKET
Technical assistance FR
Part number: **07015 19006 000 2047**
Garment weight: approx. 700 g

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 ·
FIELDS OF APPLICATION: Technical assistance

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		—	46–54, 24–27, 90–106
2						



JACKET
Dayshift firefighters
Part number: **01041 10162 001 48**
Garment weight: approx. 1,100g

Single-coloured • with reflective stripes • no Hi-Vis protective clothing acc. to EN ISO 20471 and EN 17353 • 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 • flame-retardant lining.



TROUSERS
Dayshift firefighters
Part number: **01041 20086 006 48**
Garment weight: approx. 740g

Single-coloured • with reflective stripes • no Hi-Vis protective clothing acc. to EN ISO 20471 and EN 17353 • 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.

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

FABRIC WEIGHT: approx. 300 g/m²

FIELDS OF APPLICATION: Certified day shift wear DGUV for Technical Assistance

The collection, developed in cooperation with a professional fire brigade, is suitable for operations in wildfire fighting and technical assistance. It offers excellent wearing comfort and high breathability.

ITEM	COLOUR	COLOUR NO.	COLOUR NAME			REGULAR SIZES
1		3358	red/dark blue/yellow	EN ISO 11612 A1+A2/B1/C1	EN 15614 A1+A2	46-54, 24-27, 90-106
2		10	white	-	-	One size
		17	yellow			
		25	red			
		35	moss green			
3		41	royal	EN ISO 11612 A1+A2/B1/C1	EN 15614 A1+A2	46-54, 24-27, 90-106
		488	black blue			

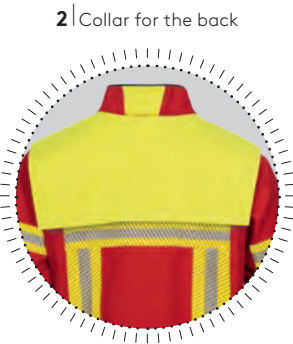


JACKET
Wildland firefighting
Part number: **01016 10196 000 3358**
Garment weight: approx. 1,270 g

Three-coloured • segmented reflective stripes with yellow background • no Hi-Vis protective clothing acc. to EN ISO 20471 and EN 17353 • 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 • front is lined • 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 large inside pocket on the right • 1 Napoleon inside pocket on the left • 2 attached side pockets with flap and covered hook&loop fastening • 2 movement pleats on the back • ergonomically formed sleeves, partially lined • cuffs width adjustable via hook&loop fastening.

IDENTIFICATION COLLAR
Wildland firefighting
Part number: **01036 70049 000 + 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.



BIB AND BRACE TROUSERS
Wildland firefighting
Part number: **01016 50091 000 488**
Garment weight: approx. 1,070 g

Single-coloured • segmented reflective stripes with yellow background • no Hi-Vis protective clothing acc. to EN ISO 20471 and EN 17353 • fix-lock braces • waistband with covered hook&loop fastening • covered zip-fly • elasticated waist width adjustment on the back • 2 slant pockets, 1 hip and 2 bellow pockets – each with flap and hook&loop fastening • 2 inside knee pockets • elasticated adjustable hem.



MATERIAL: 1| and 3| 54 % MODACRYLIC, 45 % LYOCCELL, 1 % CARBON · 2| 54 % MODACRYLIC, 45 % COTTON, 1 % CARBON ·
FABRIC WEIGHT: approx. 325 g/m² ·
FIELDS OF APPLICATION: Fire fighting in wide areas, technical assistance

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® 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 certifiapproxion institute.



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 transverse openings • embroidered ESD logo on left upper arm.

Regular sizes: XS–L
☐ white
Standards:



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 transverse openings • sleeve hem adjustable via snap fasteners • embroidered ESD logo on left upper arm.

Regular sizes: XS–L
☐ white
Standards:



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 ESD logo on left upper arm.

Regular sizes: S–2XL
☐ white
Standards:



LADIES COAT, SHORT SLEEVE

ESD
Part number: **08005 48019 005 10**
Garment weight: approx. 275 g
Regular sizes: XS–L

COAT, SHORT SLEEVE

ESD
Part number: **08005 48011 011 10**
Garment weight: approx. 285 g
Regular sizes: S–2XL

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 transverse openings • 2 front tucks on ladies' coat • hemmed short-sleeve • embroidered ESD logo on left upper arm.

☐ white
Standards:



LADIES COAT, LONG SLEEVE

ESD
Part number: **08005 48019 000 + COLOUR NO.**
Garment weight: approx. 320 g
Regular sizes: XS–L

COAT, LONG SLEEVE

ESD
Part number: **08005 48011 000 + COLOUR NO.**
Garment weight: approx. 330 g
Regular sizes: S–2XL

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 transverse openings • 2 front tucks on ladies' coat • sleeve hem adjustable via snap fasteners • embroidered ESD logo on left upper arm.

- | | | | |
|-----------------------------|-------|------------------------------|-------------|
| <input type="checkbox"/> 10 | white | <input type="checkbox"/> 50 | silver grey |
| <input type="checkbox"/> 41 | royal | <input type="checkbox"/> 471 | pastel blue |
| <input type="checkbox"/> 45 | navy | <input type="checkbox"/> 58 | anthracite |
| <input type="checkbox"/> 46 | black | | |



MATERIAL: 75 % POLYESTER, 23 % COTTON, 2 % CARBON
FABRIC WEIGHT: approx. 130 g/m²
SURFACE RESISTIVITY: 10⁶ to 10⁷ Ω (used test climate: 23 (±1) °C room temperature, 25 (±5) % air humidity)
FIELDS OF APPLICATION: Electronics manufacturing

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 certifiaproxion institute.



Stand-up collar
with slanted corner

Ergonomic
sleeves

Side pocket with
zipper



Adjustable
waistband

BLOUSON

ESD

Part number: **08005 18006 000 + COLOUR NO.**

Garment weight: approx. 380 g

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 ESD logo on left upper arm.

Regular sizes: 46–58, 94–110

41 royal

45 navy

Standards:



EN 61340-5-1



Hohenstein
breathability label



Leg Pocket

Embroidered
ESD Logo

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 • ESD embroidered emblem.

Regular sizes: 46–58, 94–110

41 royal

45 navy

Standards:



EN 61340-5-1



MATERIAL: 75 % POLYESTER, 23 % COTTON, 2 % CARBON

FABRIC WEIGHT: approx. 130 g/m²

SURFACE RESISTIVITY: 10⁶ bis 10⁷ Ω (used test climate: 23 (±1) °C room temperature, 25 (±5) % air humidity)

FIELDS OF APPLICATION: Warehouse works within the electronic manufacture

CONDUCTEX

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.



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 ESD logo on left upper arm.

Regular sizes: S–2XL
41 royal
45 navy
46 black
50 silver grey
Standards:



EN 61340-5-1



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 ESD logo on left upper arm.

Regular sizes: S–2XL
10 white
50 silver grey
45 navy
46 black
More colours available on request.



EN 61340-5-1

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 ESD logo on left upper arm.

Regular sizes: S–2XL
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.

Standards:



EN 61340-5-1



1, 2 and 3
ESD logo on
left upper arm

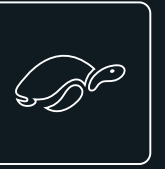


MATERIAL: 95 % COTTON, 5 % CARBON
FABRIC WEIGHT: approx. 160 g/m²
SURFACE RESISTIVITY: 10⁴ to 10⁷ Ω (used test climate: 23 (±1) °C room temperature, 25 (±5) % air humidity)
FIELDS OF APPLICATION: Electronics manufacturing

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.



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 ESD logo on left upper arm.

Regular sizes: XS–L

10 white
50 silver grey
45 navy

More colours available on request.

Standards:



EN 61340-5-1

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 ESD logo on left upper arm.

Regular sizes: XS–L

2031 royal/silver grey
2186 black/silver grey

More colours available on request.

Standards:



EN 61340-5-1



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 ESD logo on left upper arm.

Regular sizes: S–2XL

2031 royal/silver grey
2042 navy/silver grey
2064 silver grey/navy

Standards:



EN 61340-5-1

2 and 3 |
Collar and sleeve opening
manufactured in contrast colour



MATERIAL: 95 % COTTON, 5 % CARBON

FABRIC WEIGHT: approx. 160 g/m²

SURFACE RESISTIVITY: 10⁶ to 10⁷ Ω (used test climate: 23 (±1) °C room temperature, 25 (±5) % air humidity)

FIELDS OF APPLICATION: Electronics manufacturing

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.

SWEATSHIRT

ESD
Part number: **08014 86019 000 50**
Garment weight: approx. 440 g

Single-coloured • comfortable round neck with conductive collar • comfortable sleeve hems • embroidered ESD logo on left upper arm.

Regular sizes: Unisex S-2XL
■ silver grey
Standards:



EN 61340-5-1



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 ESD logo on left upper arm.

Regular sizes: Unisex S-2XL
Standards:



EN 61340-5-1



MATERIAL: 95 % COTTON, 5 % CARRBON
FABRIC WEIGHT: approx. 300 g/m²
SURFACE RESISTIVITY: 10⁶ to 10⁷ Ω (used test climate: 23 (±1) °C room temperature, 25 (±5) % air humidity)
FIELDS OF APPLICATION: Electronics manufacturing

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



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 • ESD logo on left upper arm.

Regular sizes: S-2XL
■ 45 navy
■ 50 silver grey
More colours available on request.
Standards:



EN 61340-5-1



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 • ESD logo on left upper arm.

Regular sizes: S-2XL
■ 2031 royal/silver grey
■ 2064 silver grey/navy
More colours available on request.
Standards:



EN 61340-5-1



MATERIAL: 48 % COTTON, 48 % POLYESTER, 4 % CARBON
FABRIC WEIGHT: approx. 170 g/m²
SURFACE RESISTIVITY: 10⁶ to 10⁷ Ω (used test climate: 23 (±1) °C room temperature, 25 (±5) % air humidity)
FIELDS OF APPLICATION: Electronics manufacturing

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.

▶ 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.



ESD
ELECTRO-
STATIC
DISCHARGE



ESD logo
on left upper arm

For best possible protection while manufacturing electronic parts, CONDUCTEX® thread is entwined of two high quality carbon fibres.



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 • ESD logo on left upper arm.

Regular sizes: Unisex S-2XL

■ **46** black

■ **45** navy

Standards:



EN 61340-5-1

MATERIAL: 60 % POLYESTER, 33 % COTTON, 7 % CARBON

FABRIC WEIGHT: approx. 305 g/m²

SURFACE RESISTIVITY: 10⁶ to 10⁷ Ω (used test climate: 23 (±1) °C room temperature, 25 (±5) % air humidity)

FIELDS OF APPLICATION: Electronics manufacturing

CONDUCTEX®

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 • ESD badge on the hem.

Regular sizes: 46-59, 94-110

■ royal

Standards:



EN 61340-5-1

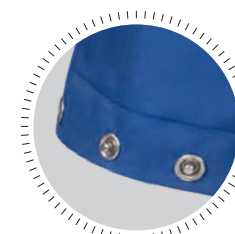


Stand-up collar with
slanted collar corner



Side pockets with
zip fastener

Ergonomically
shaped arms with
divided seams



Sleeve hem
with adjustable
snap 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 with flap and covered snap fastener • 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 ESD emblem.

Regular sizes: 46-59, 94-110

■ royal

Standards:



EN 61340-5-1



Leg pocket with
mobile phone
pocket inside

Embroidered
ESD emblem

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, 1 % METAL (Naptex®), 1 % METAL (Bekinox®)

FABRIC WEIGHT: approx. 165 g/m²

SURFACE RESISTIVITY: 10⁵ to 10⁶ Ω (used test climate: 23 (±1) °C room temperature, 25 (±5) % air humidity)

FIELDS OF APPLICATION: Warehouse work within electronics production *

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.



LADIES COAT, LONG-SLEEVE

ESD
Part number: **08022 48005 018 + COLOUR NO.**
Garment weight: approx. 370 g
Regular sizes: XS–L

COAT, LONG-SLEEVE

ESD
Part number: **08022 48000 026 + COLOUR NO.**
Garment weight: approx. 380 g
Regular sizes: S–2XL

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 ESD emblem on the left upper arm.

10 white
41 royal
Standards:



EN 61340-5-1



LADIES COAT, SHORT-SLEEVE

ESD
Part number: **08022 48005 019 + COLOUR NO.**
Garment weight: approx. 335 g
Regular sizes: XS–L

COAT, SHORT-SLEEVE

ESD
Part number: **08022 48000 027 + COLOUR NO.**
Garment weight: approx. 340 g
Regular sizes: S–2XL

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 ESD emblem on the left upper arm.

10 white
41 royal
Standards:



EN 61340-5-1



LADIES COAT, LONG-SLEEVE

ESD
Part number: **08022 48005 020 10**
Garment weight: approx. 400 g
Regular sizes: XS–L

COAT, LONG-SLEEVE

ESD
Part number: **08022 48000 029 10**
Garment weight: approx. 410 g
Regular sizes: S–2XL

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 ESD emblem on the left upper arm.

white
Standards:



EN 61340-5-1



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 ESD emblem on the left upper arm.

Regular sizes: S–2XL

white
Standards:



EN 61340-5-1



* Due to the low contact resistance, there is no low minimum contact protection against current-carrying elements

MATERIAL: 65 % POLYESTER, 33 % COTTON, 1 % METAL (Naptex®), 1 % METAL (Bekinox®)

FABRIC WEIGHT: approx. 165 g/m²

SURFACE RESISTIVITY: 10⁵ to 10⁶ Ω (used test climate: 23 (±1) °C room temperature, 25 (±5) % air humidity)

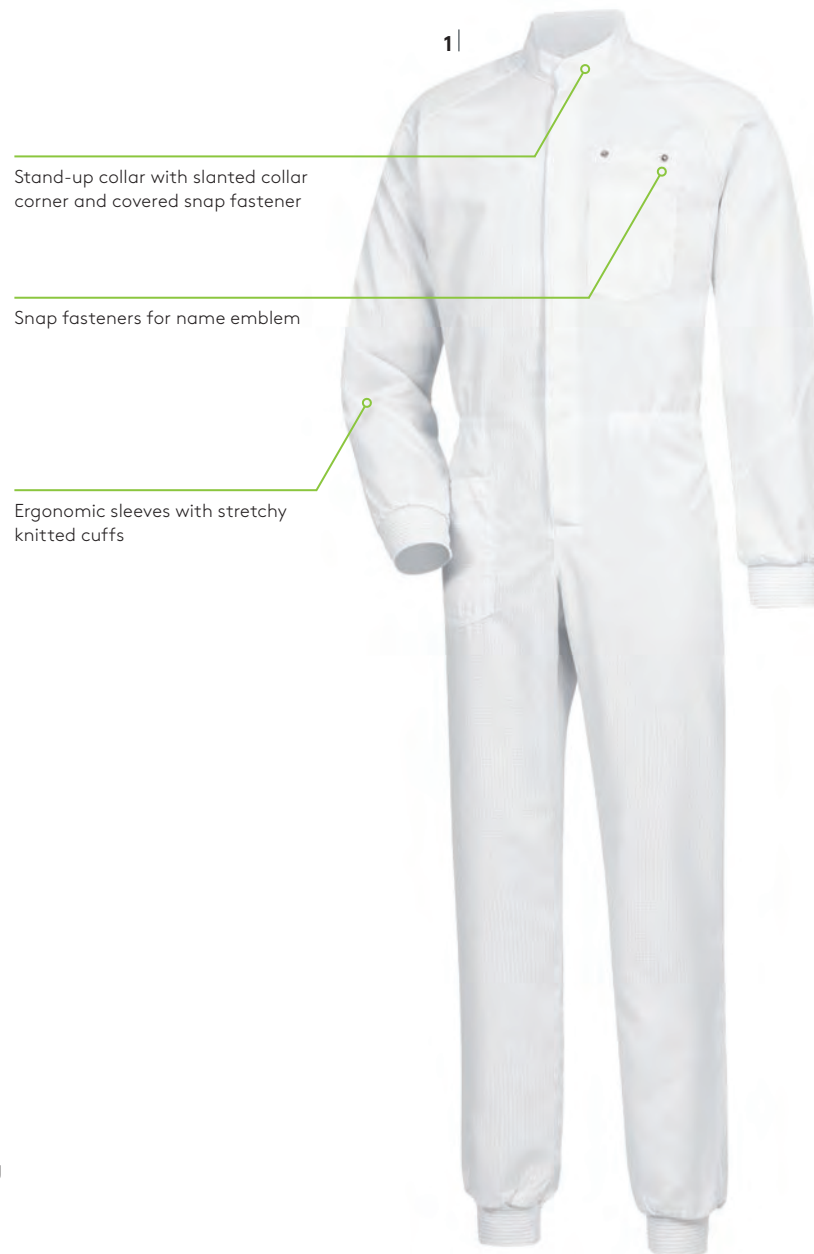
FIELDS OF APPLICATION: Warehouse work within electronics production *

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 certifiapproxtion institute.



Ventilation on the back



COVERALL, WITH KNITTED CUFFS

ESD/Cleanroom
Part number: **08020 38002 000 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 • 1 straight cut pocket on the left front • 2 snap fasteners for name emblem • 1 slant pocket on the sides with slanted corner • 1 leg pocket • ergonomic sleeves with stretchy knitted cuffs • ventilation on the back • leasing label on the inside in the back • embroidered ESD logo on left upper arm.

Regular sizes: Unisex S-2XL

☐ white

Standards:



EN 61340-5-1



Comfortable stretchy knitted cuffs



LADIES COAT, WITH KNITTED CUFFS

ESD/Cleanroom
Part number: **08020 48043 000 10**
Garment weight: approx. 290 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 ESD logo on left upper arm.

Regular sizes: XS-L

☐ white

Standards:



EN 61340-5-1

MATERIAL: 98 % POLYESTER, 2 % CARBON

FABRIC WEIGHT: approx. 125 g/m² • **CHARACTERISTICS:** low weight, breathable

SURFACE RESISTIVITY: 10⁶ to 10⁷ Ω (used test climate: 23 (±1) °C room temperature, 25 (±5) % air humidity)

FIELDS OF APPLICATION: ESD and Cleanroom production, like wafer production

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 certifiapproxtion institute.



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 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 ESD logo on left upper arm.

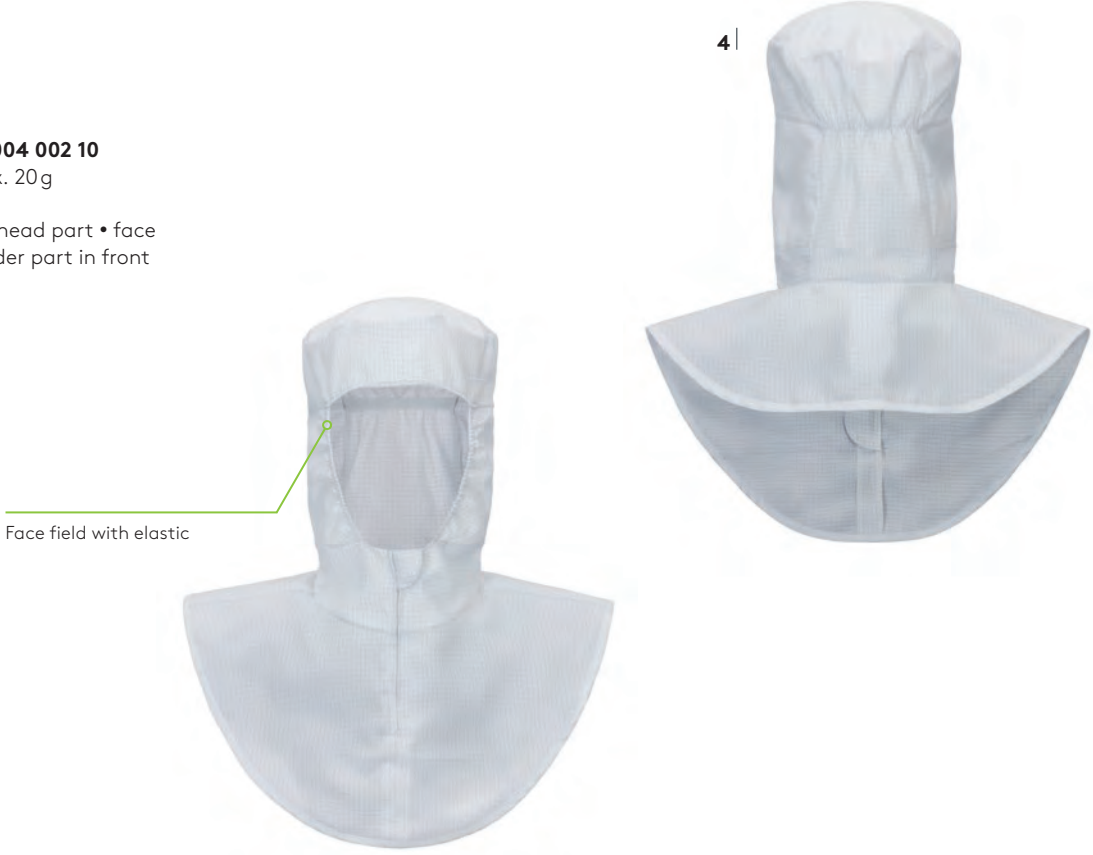
Regular sizes: S-2XL
white
Standards:



HEAD COVER
Accessories
Part number: **08020 77004 002 10**
Garment weight: approx. 20 g

Single-coloured • round head part • face field with elastic • shoulder part in front closable with zip.

Sizes: 1/56 to 5/64
white



GLOVES
Accessories
Part number: **08009 76004 001 50**
Garment weight: approx. 20 g

Uncoated, with knitted trims • with carbon • Packaging unit: 10 pairs.

Sizes: S-XL
silver grey



MATERIAL: 3|and 4|98 % POLYESTER, 2 % CARBON · 5|97 % POLYESTER, 3 % CARBON ·
FABRIC WEIGHT: approx. 125 g/m² · **CHARACTERISTICS:** low weight, breathable ·
SURFACE RESISTIVITY: 10⁶ to 10⁷ Ω (used test climate: 23 (±1) °C room temperature, 25 (±5) % air humidity) ·
FIELDS OF APPLICATION: ESD and Cleanroom production, like wafer production

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.



The pure viscose fabric makes full use of the fabric weight's possibilities and ensures maximum wearing comfort. This results in very light-weight, comfortable and highly functional cleanroom clothing. The manufacture of our fabric HABETEX® Viscose is specially adapted to suit the specific requirements of cleanrooms.



COVERALL

Cleanroom
Part number: **06013 37003 000 53**
Garment weight: approx. 455 g

Single-coloured • band collar with hook&loop fastener • front edge with covered 2-way PVC zip fastener • 2 front pockets with flaps and covered hook&loop fastener • 2 front pockets with flaps and covered hook&loop fastener • 1 hip pocket on the right with covered hook&loop fastener • waist adjustment with integrated lateral elastic waistband • ventilation via cape collar on back • wristband and leg opening with vent and covered hook&loop fastener.

Regular sizes: 46/48–58/60
■ grey



1 and 2
Wristband with let-in piece and leg opening with vent and covered hook&loop fastener



1 and 2
2 front pockets with flaps and covered hook&loop fastener

1 and 2
Waist adjustment with integrated lateral elastic waistband



COVERALL WITH HOOD

Cleanroom
Part number: **06013 37024 001 53**
Garment weight: approx. 500 g

Single-coloured • attached hood, chin area adjustable via hook&loop fastener • field of vision and neck adjustable via elastic band • front with covered 2-way PVC zip fastener • 2 front pockets with flaps and covered hook&loop fastener • 1 hip pocket on the right with covered hook&loop fastener • waist adjustment with integrated lateral elastic waistband • ventilation via cape collar on the back • wristband with let-in piece and leg opening with vent and covered hook&loop fastener.

Regular sizes: 46/48–58/60
■ grey

MATERIAL: 100 % VISCOSE • **FABRIC WEIGHT:** approx. 130 g/m² •
CHARACTERISTICS: particularly high wearing comfort, only chemical cleaning •
FIELDS OF APPLICATION: Automotive industry, paint shop



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. 290 g

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. 430 g

- 47** light blue
- 53** grey

Part number: **06015 37007 000 48**
Garment weight: approx. 430 g

48 dark blue

Single-coloured • band collar • front with covered 2-way PVC zip fastener • 1 front pocket with aps and PVC snap fastener • 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®

HABETEX® Micronplus

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®

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.

CLEANROOM
& DUST



COVERALL WITH HOOD

Cleanroom
Part number: **06006 37024 001 41**
Garment weight: approx. 455 g




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.

CLEANROOM
& DUST



HEAD COVER

Accessories
Part number: **06008 77000 000 50**
Garment weight: approx. 55g

Single-coloured • round upper head part • field of vision with elastic band all round • shoulder part lockable via hook&loop fastener at front.

Material: 98 % Polyester, 2 % Carbon
Grammage: approx. 150g/m²
Sizes: 1/56–5/64
■ silver grey



Lockable with hook&loop fastener at front

HEAD COVER, ELASTIC BAND

Accessories
Part number: **06015 77000 000 47**
Garment weight: approx. 40g

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. 105g/m²
Sizes: 1/56–5/64
■ light blue



Field of vision with elastic band all round

VISOR CAP

Accessories
Part number: **06008 77002 000 53**
Garment weight: approx. 35g

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. 150g/m²
Sizes: 1/54–5/6 to 3/60–63
■ grey



VISOR CAP

Accessories
Part number: **06015 77002 000 + COLOUR NO.**
Garment weight: approx. 30g

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. 105g/m²
Sizes: 1/54–5/6 to 3/60–63
■ 47 light blue
■ 53 grey



Elastic band centrally on the back

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



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



OVERVIEW PRODUCT LINES

HB
PROTECTIVE
WEAR



	Product Line	Fabric Composition Upper material	Fabric weight (approx. ... g/m²)	Retro Reflective	Attachment of emblems & patches		 ISO 15797	 IEC 61482-2	 IEC 61482-2	 EN ISO 11611	 EN ISO 11612	 EN 1149-5	 EN 13034	 EN ISO 20471	 EN 343	 EN 13758-2	 EN 14058	 EN 342	 EN 61340-5-1	 EN 15614	 MULTI-RISK	21 TO WEAR®	
					Patch	Stitch																	
ARC & ENERGY	HB-BodySafe	68 % CV FR, 16 % meta-AR, 13 % MAC, 2 % EL, 1 % Carbon	200					APC 1			A/B1/C1/F1	✓											
	Westex UltraSoft®	88 % CO, 12 % PA	340		✓	✓	Dryer	APC 1			A/B1/C1/E3/F1												
	HB-SecureAllround®	75 % CO, 24 % PES, 1 % Carbon, FC-Equipment	360	✓	1)	✓	Dryer		Class 1	Class 1	A/B1/C1/E2/F1	✓	✓							✓	✓		
	HB-ArcSelect®	87 % CO, 12 % PA, 1 % Carbon	280		✓	✓		APC 1		Class 1	Class 1	A/B1/C1/E1/F1	✓								✓	✓	
			340 + 265		✓	✓		APC 2		Class 1	Class 1	A/B1/C1/F1	✓								✓	✓	
			340 + 280	✓	✓	✓		APC 1/2		Class 1	Class 1	A1/B1/C1/E2/F1	✓								✓	✓	
			390 + 250		✓	✓	Dryer	APC 2		Class 2	Class 2	A/B1/C1/E3/F1	✓								✓	✓	
	HB-4arc®	89 % CO, 10 % PA, 1 % Carbon	275 + 175	✓	✓	✓		APC 1/2		Class 1	Class 1	A/B1/C1/F1	✓	Type 6							✓	✓	
	HB-PROtection®	55 % MAC, 43 % CO, 2 % Carbon	215	✓	✓	✓		APC 1			A/B1/C1/F1	✓	Type 6							✓	✓		
	HB-MODarc®	54 % MAC, 44 % CO, 2 % Carbon	215	✓	✓	✓		APC 1			A1/B1/C2/F1	✓					✓	Class 1				✓	
		48 % PES, 32 % MAC, 18 % CO, 2 % Carbon	275 + 175		✓	✓		APC 1/2		Class 1	Class 1	A/B1/C1/F1	✓	Type 6								✓	
		55 % MAC, 43 % CO, 2 % Carbon	275 + 175	✓	✓	✓		APC 1/2		Class 1	Class 1	A/B1/C1/F1	✓	Type 6								✓	✓
	HB-MODarc® Reflective Stripes	55 % MAC, 43 % CO, 2 % Carbon	275 + 175	✓	✓	✓		APC 1/2		Class 1	Class 1	A/B1/C1/F1	✓	Type 6								✓	✓
	HB-MODarc&vis® Polo-Shirt 2397	49 % PES, 30 % MAC, 20 % CO, 1 % Carbon	245					APC 1			A1/B1/C1/F1	✓		Class 2			✓					✓	✓
	HB-MODarc&vis® Polo-Shirt 2112	54 % MAC, 44 % CO, 2 % Carbon	215					APC 1			A/B1/C1/F1	✓		Class 2			✓					✓	✓
	HB-MODarc&vis® Vest FR	55 % MAC, 43 % CO, 2 % Carbon	275								A/B1/C1/F1	✓										✓	✓
	HB-MODarc & vis®	55 % MAC, 43 % CO, 2 % Carbon	275 + 175	✓	✓	✓		APC 1/2		Class 1	Class 1	A/B1/C1/F1	✓	Type 6	Class 3 2)							✓	✓
	HB-MODarc&vis® Softshelljacket 7kA	40 % MAC, 15 % CO, 20 % PES, 12 % AR, 12 % CV, 1 % Carbon	540					APC 2		Class 2 A1	A1/B1/C2/F2	✓		Class 2								✓	✓
	HB-MODarc&vis® Fleece jacket 4kA	48 % MAC, 32 % CO, 18 % PES, 2 % Carbon	360					APC 1			A1/B1/C2/F1	✓		Class 2				Class 1				✓	✓
	HB-MODarc&vis® Fleece jacket	48 % MAC, 32 % CO, 18 % PES, 2 % Carbon	360															Class 1				✓	✓
	HB-MODarc&vis® Parka with liner 7kA	55 % MAC, 43 % CO, 2 % Carbon, FC-Equipment	275					APC 2		Class 1	A/B1/C1/E1/F1	✓	Type PB [δ]	Class 2	Cl. 3/3							✓	✓
	HB-MODarc&vis® Parka 7kA	55 % MAC, 43 % CO, 2 % Carbon, PU-Membrane	300					APC 2		Class 1 A1	A1/B1/C1/F1	✓	Type 6	Class 2	Cl. 3/4							✓	✓
	HB-MODarc&vis® Bib trousers 4kA	55 % MAC, 43 % CO, 2 % Carbon, PU-Membrane	300					APC 2		Class 1 A1	A1/B1/C1/F1	✓	Type 6	Class 1	Cl. 3/4							✓	✓
	HB-MultiPro FR® Fleece jacket 4kA	48 % MAC, 32 % CO, 18 % PES, 2 % Carbon	360							Class 1	A1/B1/C2/F2	✓						Class 1				✓	✓
	HB-MultiPro FR® Fleece jacket 7kA	31 % PES, 28 % MAC, 20 % AR, 20 % CV, 1 % Carbon	320							Class 2	A1/B2/C2/F2	✓						Class 1				✓	✓
	HB-MultiPro FR® Parka 7kA	31 % PES, 28 % MAC, 20 % AR, 20 % CV, 1 % Carbon	320							Class 2 A1	A1/B1/C1/E1/F1	✓	Type PB [δ]	Class 3								✓	✓
	HB-MultiPro FR® Brace trousers 7kA	31 % PES, 28 % MAC, 20 % AR, 20 % CV, 1 % Carbon	320							Class 2 A1	A1/B1/C1/E1/F1	✓	Type PB [δ]	Class 2								✓	✓
	NOMEX® Viscose	50 % CV, 49 % AR, 1 % Carbon	260	✓		✓		APC 1		Class 1 A1	A1/B1/C1/F1	✓										✓	✓
	NOMEX® Comfort	98 % AR, 2 % Carbon	260			✓	✓	APC 1			A1/B1/C1/F1	✓											
			185			✓	✓				A1/B1/C1/F1	✓											
	INOTEC® Arc & Energy	98 % AR, 2 % Carbon	260 + 180	✓	✓	✓	Dryer			Class 1/2		A1/B1/C1/F1	✓			Cl. 3/3							
		98 % AR, 2 % Carbon, FC-Equipment	260							Class 2		A1/B1/C1/F1	✓									✓	
HEAT, SPLASHES & WELDING	PROBAN®	100 % CO	470		1)	✓				Class 2 A1	A1/B1/C1/E3/F1												
			380			✓				Class 2 A1	A1/B1/C1/E2/F1												
			320			✓				Class 1	A1/B1/C1												
	SECAN® Plus	100 % CO	395			✓	✓	Dryer			Class 2	A/B1/C1/E2/F1											
			330			✓	✓				Class 1	A/B1/C1/E2/F1											
	SECAN® Securo	98 % CO, 2 % Carbon	410			✓	✓				Class 2	A/B1/C1/E3/F1	✓										
			460	✓		✓	✓			Class 1	Class 2	A/B1/C1/E3/F1	✓								✓	✓	
	HB-4welders® 2.0	89 % CO, 10 % PA, 1 % Carbon	390			✓	✓	Dryer	APC 1		Class 2	A/B1/C1/E3/F1	✓								✓	✓	
	HB-Welding & Vis	31 % PES, 28 % MAC, 20 % AR, 20 % CV, 1 % Carbon	320	✓		✓	✓	Dryer	APC 1		Class 2 A1	A1/B1/C1/E1/F1	✓	Type PB [δ]	Class 3 2)						✓		
	MARLAN	50 % CV FR, 30 % WO, 20 % PA	365			✓	✓	Finisher			Class 1	A1/B1/C1/D3/E3/F1											
	HB-FluidMetal Pro	50 % CO, 39 % MAC, 10 % CV, 1 % Carbon	340	✓		✓	✓	Dryer+Finisher		Class 1	Class 1 A1	A/B1/C1/D2/E2/F1	✓								✓		
		52 % CO, 37 % MAC, 10 % CV, 1 % Carbon	430	✓		✓	✓	Dryer+Finisher		Class 1	Class 2	A/B1/C1/D3/E3/F1	✓									✓	
	VINEX®	85 % Vinylal, 15 % Modal	390			✓	✓		APC 1			A/B1/C1/D3/E2/F1											
			285			✓	✓					A/B1/C1/D1/E1/F1											
	TEMPEX® TREME HEAT																						
	CK-12/Z	70 % Preox, 30 % AR	360									A1/B1/C3/D3/E3/F1											
	AW-1/Y	100 % AR	420									A1/B1/C4/D3/E3/F2											
	KF-3/Z	100 % para-aramide	475									A1/B1/C3/D3/E3/F1											
	CK-4/Z	51 % Glass, 49 % para-aramide	690									A1/B1/C3/D3/E3/F2											
	HABETEX® organic	54 % MAC, 44 % CO, 2 % Carbon	195			✓	✓		APC 1			A/B1/C1/F1	✓										

1) In testing procedure. ✓ = Flame retardent 2) Blouson and trousers or bib and brace trousers worn together. 3) Reflective application, no Hi-Vis protection.
4) Does not apply to blouson and trousers. 5) Applies to two-coloured coverall. * Does not apply to the shirt.

OVERVIEW PRODUCT LINES

HB
PROTECTIVE
WEAR



	Product Line	Fabric Composition Upper material	Fabric weight (approx. ... g/m²)	Retro Reflective	Attachment of emblems & patches		ISO 15797	IEC 61482-2	IEC 61482-2	EN ISO 11611	EN ISO 11612	EN 1149-5	EN 13034	EN ISO 20471	EN 343	EN 13758-2	EN 14058	EN 342	EN 61340-5-1	EN 15614	MULTI-RISK	21 TO WEAR®
CHEMICALS	HB-CHEMstandard	100 % PAC, FC-Equipment	270		✓	✓							Type 6									
	HB-CHEMclassic	100 % PES, FC-Equipment	260		✓	✓							Type 6									
	HB-CHEMcomfort antistatic	99 % PES, 1 % Carbon, FC-Equipment	240		✓	✓	Dryer+Finisher					✓	Type 6									✓
HIVIS & WEATHER	HI-VISION® Basic Reflective Shirts	55 % CO, 45 % PES	185	✓	✓	✓								Class 2		✓						
	HI-VISION® Basic Fleece	100 % PES	258		✓	✓																
	HI-VISION® Basic Jacket	100 % PES	195	✓	✓	✓								Class 2	Cl. 3/3							
	HI-VISION® Basic Bibandbrace trousers	100 % PES	195	✓	✓	✓								Class 1	Cl. 3/3							
	HI-VISION® Basic Parka Antistatic	99 % PES, 1 % Carbon	150	✓		✓						✓		Class 2	Cl. 3/3							
	HB-StormBase® Parka + Brace trousers	99 % PES, 1 % Carbon	150	✓								✓			Cl. 3/3							
COLD PROTECTION	TEMPEX® CLASSIC 2.0	100 % PA	515	✓ ³⁾		✓												✓				
	TEMPEX® CLASSIC	100 % PA	415	✓ ³⁾		✓												✓				
			520	✓ ³⁾		✓												✓				
			560	✓ ³⁾		✓												✓				
			630	✓ ³⁾		✓												✓				
			645															✓				
	TEMPEX® COMFORT	100 % PA	445/545/645	✓ ³⁾		✓												✓				
	TEMPEX® CONTOUR	100 % PA	415	✓ ³⁾		✓												✓				
	TEMPEX® HYGIENE	100 % PA	415/515			✓												✓				
FIRE & RESCUE SERVICES	Flammgard® Klassik	49 % AR, 50 % CV FR, 1 % Carbon	300		✓	✓					A/B1/C1											
	Flammgard® Nordrhein-Westfalen	59 % AR, 40 % CV FR, 1 % Carbon	260		✓	✓					A/B1/C1											
	Flammgard® Baden-Württemberg	59 % AR, 40 % CV FR, 1 % Carbon	260		✓	✓					A/B1/C1											
	Softshell	94 % PES, 6 % EA	300		✓	✓																
	Fleece	100 % PES	260			✓																
	Flammgard® Saarland	59 % AR, 40 % CV FR, 1 % Carbon	260		✓	✓					A/B1/C1											
	HB-Technical Rescue Parka	98 % AR, 2 % Carbon	195								A/B1/C1				4 4 X							
	HB-Technical Rescue Trousers	59 % AR, 40 % CV FR, 1 % Carbon	260								A/B1/C1											
	HB-Technical Rescue Fleece	48 % MAC, 32 % CO, 75 % PES, 2 % Carbon	360								A/B1/C1											
ESD	HB-Technical Rescue lite	49 % AR, 50 % CV FR, 1 % Carbon	300	✓	✓	✓					A/B1/C1									✓		
	HB-Wildfire	54 % MAC, 43 % CLY, 2 % Carbon	325	✓	✓	✓					A/B1/C1											
	CONDUCTEX®	75 % PES, 23 % CO, 2 % Carbon	130		✓	✓													✓			✓ ⁴⁾
	CONDUCTEX® Cotton Knit	95 % CO, 5 % Carbon	160		✓	✓													✓			
			300		✓	✓													✓			
			170		✓	✓													✓			
CLEANROOM	CONDUCTEX® Pro Knit	48 % CO, 48 % PES, 4 % Carbon	170		✓	✓													✓			
	Naptex® 4.0	65 % PES, 33 % CO, je 1 % Metall (Naptex®/Bekinox®)	305		✓	✓													✓			
			165		✓	✓													✓			
	HABETEX® ESD Comfort	98 % PES, 2 % Carbon	125		✓	✓													✓			
CLEANROOM	HABETEX® Viscose	100 % CV	130		✓																	
	HABETEX® climatic Pro	72 % CV, 28 % PES	105		✓																	
	HABETEX® Micronplus	98 % PES, 2 % Carbon	150		✓																	
	HABETEX® Micronselect	98 % PES, 2 % Carbon	115		✓																	✓ ⁵⁾
	HABETEX® Micronknit	100 % PES	190																			

1) In testing procedure. ✓ = Flame retardent 2) Blouson and trousers or bib and brace trousers worn together. 3) Reflective application, no Hi-Vis protection.
4) Does not apply to blouson and trousers. 5) Applies to two-coloured coverall. * Does not apply to the shirt.

EMBLEMS AND PATCHES

HB
PROTECTIVE
WEAR



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 214.

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.

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:
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

Manufacture:
For the EN standard code E and D 1-3, manufacture in the roof tile effect is always necessary to do.

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.

For embroidered emblems, the outer fabric should be used as the background material or a similar material with the same or higher performance class.

Embroidered emblems can be applied without affecting the thermal insulation specified by the manufacturer.*

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.

Direct embroideries larger than 20 cm² must be explicitly tested and must be underlaid with the outer fabric towards the body.

Direct embroideries are only allowed to be attached to the following product lines: Comfort, Hygiene, Contour 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.

Patched emblems may be attached by the manufacturer without any restrictions.

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 emblems larger than 20 cm² must be explicitly tested.

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 239).

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		EN 13034 Type 6	
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-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 trousers 1-ply 4kA		grey/black			
01072 10206 000 2041	Ladies blouson Reflective Stripes 1-ply 4kA		navy/royal			
01072 10206 000 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 000 2188	Ladies trousers Reflective Stripes 1-ply 4kA		black/grey			
01072 20144 002 45	Ladies trousers Reflective Stripes 1-ply 4kA		navy			
01072 10206 001 2041	Ladies blouson Reflective Stripes 2-ply 7kA/4kA		navy/royal			
01072 10206 001 2251	Ladies blouson Reflective Stripes 2-ply 7kA/4kA		grey/black			
01072 20144 001 2188	Ladies trousers Reflective Stripes 2-ply 7kA/4kA	black/grey	navy			
01072 20144 003 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				EN 13034 Type 6	
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						
HB-4welders® 2.0   						
01237 20144 011 458	Ladies trousers 2-ply 7kA	89% Cotton, 10% Polyamide, 1% Carbon	navy	approx. 390 g/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			



- 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.21towear.de

Item number	Designation	Material	Colour	Weight	Standards
HB-FluidMetal Pro 340   					
01221 20144 012 2043	Ladies trousers	50 % Cotton, 39 % Modacrylic, 10 % Viscose, 1 % Carbon	navy/medium grey	approx. 340 g/m ²	EN ISO 11611 Class 1 A1+A2 EN ISO 11612 A1+A2/B1/C1/D2/E2/F1 EN 1149-5 IEC 61482-2 Class 1
01221 20144 012 2070			medium grey/pure orange		
HB-FluidMetal Pro 430   					
01218 20144 012 2043	Ladies trousers	52 % Cotton, 37 % Modacrylic, 10 % Viscose, 1 % Carbon	navy/medium grey	approx. 430 g/m ²	EN ISO 11611 Class 2 A1+A2 EN ISO 11612 A1+A2/B1/C1/D3/E3/F1 EN 1149-5 IEC 61482-2 Class 2
01218 20144 012 2070			medium grey/pure orange		
21 TO WEAR® FOR MEN					
Item number	Designation	Material	Colour	Weight	Standards
HB-ArcSelect® 					
01004 10000 001 2382	Jacket 1-ply 4kA	87 % Cotton, 12 % Polyamide, 1 % Carbon	anthrachite grey/ medium grey	approx. 340 g/m ²	IEC 61482-2 APC 1 (2-ply: IEC 61482-2 APC 2 (front parts and sleeves/front of trouser legs)) EN ISO 11612 A1+A2/B1/C1/E1/F1 EN ISO 11611 Class 1 A1+A2 EN 1149-5
01004 20000 001 2381	Trousers 1-ply 4kA		medium grey/ anthrachite grey		
01004 50100 001 2381	Bib and brace trousers 1-ply 4kA		medium grey/ anthrachite grey		
01004 10000 002 2382	Jacket 2-ply 7kA/4kA		anthrachite grey/ medium grey	approx. 340 g/m ² +approx. 280 g/m ²	
01004 20000 002 2381	Trousers 2-ply 7kA/4kA		medium grey/ anthrachite grey		
01004 50100 002 2381	Bib and brace trousers 2-ply 7kA/4kA		medium grey/ anthrachite grey		
HB-MODarc®   					
01072 10107 034 2188	Blouson 1-ply 4kA	55 % Cotton, 43 % Modacrylic, 2 % Carbon	black/grey	approx. 275 g/m ²	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/m ² +approx. 175 g/m ²	
01072 10107 039 2188	Blouson Reflective Stripes 1-ply 4kA			approx. 275 g/m ²	
01072 10107 038 2188	Blouson Reflective Stripes 2-ply 7kA/4kA			approx. 275 g/m ² +approx. 175 g/m ²	
01072 50055 013 45	Bib and brace trousers Reflective Stripes 2-ply 7kA/4kA		navy		
HB-welding & Vis 					
01121 1M005 000 2143	Jacket	31 % Polyester, 28 % Modacrylic, 20 % Aramide, 20 % Viscose, 1 % Carbon	fluorescent yellow/ black blue	approx. 320 g/m ²	IEC 61482-2 APC 1 EN ISO 11611 Class 2 A1 EN ISO 11612 A1/B1/C1/E1/F1 EN ISO 20471 Class 1 EN 1149-5 EN 13034 Type PB [6]
01121 2M008 000 2143	Trousers				
01121 5M002 000 2143	Bib and brace trousers				

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 89, 92 and 94)

Product line	Part number	Closure	Ergonomic sleeves	Ventilation	Walking comfort	On stock
1 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®

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

Length variants
1 |

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

JACKET (see pages 88, 91 and 94)

Product line	Part number	Closure	Ergonomic sleeves	Ventilation	On stock
1 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 |

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 89 and 93)

Product line	Part number	Length	Closure	On stock
1 KF-3/Z	12003 71130 000 15	130 cm	Brass chain	✓
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 90 and 93)

Product line	Part number	Length	Closure	On stock
1 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 94)

Product line	Part number	Length	Closure	On stock
1 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 95–96)

Product line	Part number	Designation	Ventilation	On stock
1 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®
	12008 71001 002 15	Protective hood with shoulder and chest protection	✓	✓
3 COMFORT Plus CK-12/Z AW-1/Y	12014 71001 002 15	Protective hood with shoulder and chest protection	✓	21 TO WEAR®

* Outside Germany, delivery will take a few days longer.

▶ READY TO WEAR



ONE SYSTEM, MORE THAN 1,000 POSSIBILITIES.

Below you find a matrix that shows you the different possible equipment variants. With READY TO WEAR, you have the choice: a second combat leg pocket, additional knee pockets and reflective stripes; coverall or suit (jacket + trousers); choose between six colours depending on the colour

that corresponds to your corporate company colours.

Enjoy maximum flexibility combined with minimum delivery time of only 21 days.* Choose from 4 products, 216 colour combinations, 12 equipment versions and 28 sizes. Available if you order 15 or more units of any one item. **

	THREE OPTIONS				PART	COLOURS						
	REFLEC-TIVE STRIPES	KNEE POCKETS	2ND COMBAT POCKET	1 RULER OR POCKET		BLACK	MEDIUM GREY	DARK BLUE	ROYAL NAVY	RED	YELLOW	
JACKET	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<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 checked="" 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"/>	<input type="checkbox"/>	LEGS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" 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"/>	<input type="checkbox"/>	LEGS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" 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"/>	<input type="checkbox"/>	TORSO/ARMS/LEGS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" 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 maximum of 60 units. Delivery times for larger quantities are available on request.



Optional:
Reflective stripes



Optional:
Second combat 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

HB
PROTECTIVE
WEAR



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 / m²·K/W R-value	Standing activity 75 W/m²				Activity with low movement 115 W/m²				Activity with regular movement 170 W/m²			
				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	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 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	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
	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	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 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	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
	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	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
CLASSIC	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	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 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	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 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	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 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	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
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	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 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	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 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	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 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	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 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
HYGIENE	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	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 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	-27°C	-45°C	-49°C	-28°C	-48°C
	01183 2K010 000	Trousers forklift driver	0,511 (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
	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	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 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	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 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

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. **IMPORTANT!** TEMPEX® Cold Store garments are classified acc. to EN 342 Category II. Therefore it is not allowed to wear them at temperatures below -49°C.



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 value) or IEC 61482-1-2 ("Box-Text"; preceding standard EN 61481-2). 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 ESD, 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 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 15614

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.

EN 13688 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 11612:2013 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 may help to improve visibility. If products have reflective stripes it does not automatically mean that they are certified according to EN ISO 20471, but only if the stripes are placed on a high-visibility fabric which has been tested according to EN ISO 20471 and if the EN ISO 20471 standard pictogram is shown on the product label.



SIZES AND CARE



MEN																
Unisex	3XS, 2XS, XS		S		M		L		XL		2 XL		3 XL		4 XL	
Regular sizes	40	42	44	46	48	50	52	54	56	58	60	62	64	66	68	70
Long	86	88	90	94	98	102	106	110	114	118	122	126	130	134	138	142
Short	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
Collar sizes	35/36		37/38		39/40		41/42		43/44		45/46		47/48		49/50 bis 59/60	

WOMEN

Unisex	3XS	2XS	XS		S		M		L		XL		2XL		3XL	4XL	
Single sizes	30	32	34	36	38	40	42	44	46	48	50	52	54	56	58	60	
Long	72	76	80	84	88	92	96	100	104	108							
Short	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																
Vest		1	2	3	4											

UNDERWEAR																
Underwear Regular sizes	4	5	6	7	8	9	10									
Underwear Double sizes		S-M		L-XL		2XL-3XL										

HEADGEAR																
Head cover 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																
Gloves Cold Protection	6	7	8	9	10	11	12									
Gloves Heat Protection						11										

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.



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:



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 extraordinarily 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.



BODY MAPPING
This product takes into account the different requirements of the individual areas of the body, with flex and transpiration zones allowing greater freedom of movement and reliable moisture transport.

ATPV = Arc Thermal Performance Value:
Thermal value, which indicates the energy applied to a textile material where there is a 50 % probability of second degree skin burns, given in cal/cm² or kJ/m² = heat quantity per unit of area.


EBT50 Breakopen Treshold Energy:
Thermal value which illustrates the impact energy on a textile material at which there is a 50 % probability of the material breaking open before an ATPV value can be determined, given in cal/cm² or kJ/m² = heat quantity per unit of area.

Both values – ATPV and EBT50 – show the load limits of the material or material layers. The higher the value, the better the protection.

HAF = Heat Attenuation Factor:
Alongside the arc performance values, the HAF – Heat Attenuation Factor – is also determined. It indicates the amount of energy, expressed as a percentage, blocked by the material and not penetrating through the textile surface to the skin.

4kA and 7kA/4kA
Our arc flash protective garments all have a "4kA" or "7kA/4kA" or "7kA" embroidery on the front to show the wearer what kind of protection the garment provides.

- 4kA: the garment provides class 1 arc flash protection.
- 7kA/4kA: the garment provides class 2 arc flash protection for all double-layer parts – meaning the front parts of the jackets and the front parts of trousers and bib and brace trousers.
- 7kA: the garment provides class 2 arc flash protection.

Reflective stripes
If products have reflective stripes it does not automatically mean that they are certified according to EN ISO 20471, but only if the stripes are placed on a high-visibility fabric which has been tested according to EN ISO 20471 and if the EN ISO 20471 standard pictogram  is shown on the product label.

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