

GENERAL CATALOGUE 2020

PROTECTIVE WEAR

ARC & ENERGY • HEAT, FLAME & SPLASHES • HIVIS & WEATHER • CHEMICALS
FLAMMGARD • COLD PROTECTION • ESD ELECTROSTATIC DISCHARGE • CLEANROOM & DUST

FB

TEMPEX



**PROTECTIVE
WEAR**



PHILOSOPHY

HB
PROTECTIVE
WEAR



ARC &
ENERGY



ARC FLASH PROTECTION

FLAME AND
WELDING PROTECTION

HEAT,
FLAME &
SPASHES



HIVIS &
WEATHER



HIGH VISIBILITY & AND
WEATHER PROTECTION

CHEMICAL PROTECTION

CHEMICALS



FLAMMGARD



DAY SHIFT WEAR
FOR FIREMEN

COLD PROTECTION

COLD
PROTECTION



ESD
ELECTRO-
STATIC
DISCHARGE

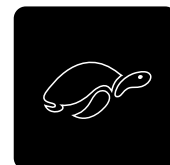


ESD PRODUCT PROTECTION

CLEANROOM AND
DUST PROTECTION

CLEANROOM
& DUST





▶ EDITORIAL

WE HAVE PPE IN OUR DNA.

Dear Sir or Madam,
Dear business partners and customers,

The demands placed on protective clothing have increased significantly in recent years and the expectations of wearers with regard to protective properties and, above all, comfort are correspondingly high. This is why the motto of our catalogue is "**High Performance, High Comfort**" – the perfect symbiosis of ultimate protection and optimum wearing comfort.

With our 2020 complete catalogue, we are rethinking PPE and showing that modern protective clothing can also be intelligently designed and particularly pleasant to wear. Protective clothing has never been so comfortable, individual and personal.

At A+A 2019 and in this catalogue, we present products made from flexible and smooth materials that offer a completely new wearing experience **thanks to ergonomically optimised cuts**. This even applies to traditionally bulky welding protection, which we have reinvented with our **HB-4welders® 2.0** collection.

The result: Clothing that reliably protects against welding beads and sparks, even during tough welding work, without making the wearer sweat.

Another new product from our innovation workshop is our **modular system for metallised heat protection**.

With the TEMPEX® TREME-Heat System, users can put together their work equipment individually. Two new lightweight fabrics and numerous features significantly increase wearing comfort. This also applies to our **organic cotton heat protection shirt**. The processed organic cotton is a godsend for your skin and the environment.



And, last but not least, we also have female employees in mind: For women who work in refrigerated warehouses and cold storage rooms, we now offer our bestseller **TEMPEX® Classic 2.0 especially for women**, with a fitted jacket and matching trousers.

That's why our message in this catalogue is: **"We have PPE in our DNA."** With this in mind, I wish you exciting insights into our product range and safe working at all times!
BE SAFE. WE CARE.

Sincerely,

Klaus Berthold

CEO
Owner of HB Protective Wear

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ARC & ENERGY

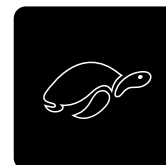
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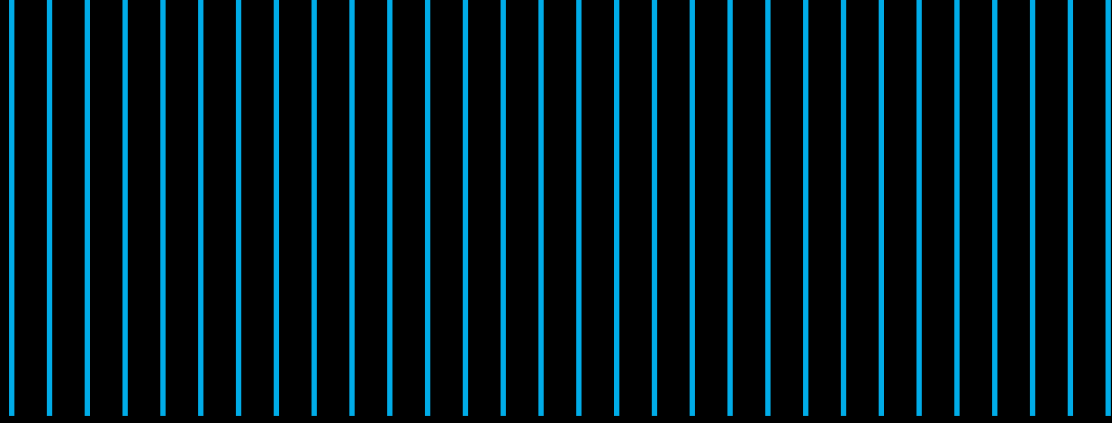
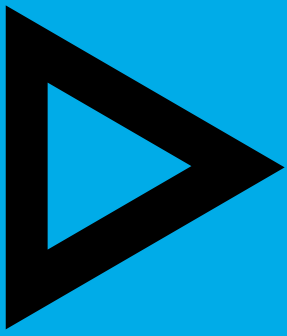
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OUR RESPONSIBILITY DOES NOT STOP AT OUR CUSTOMERS.

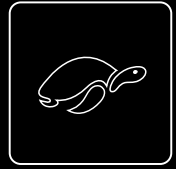


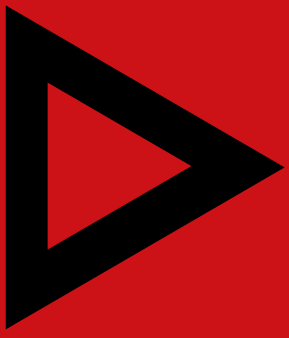
We are already strongly connected to the sea turtle through our brand logo.

As a leading manufacturer of protective clothing, HB Protective Wear has been contributing to safety in the workplace for almost 70 years. But our self-image as a company goes much further than this, because right from the very beginning, taking active responsibility for employees, society and the environment was just as important to us as being responsible for the quality of our products.

One example: By supporting a conservation programme for the green sea turtle – our trademark and emblem of protection – we have been committed to preserving the biodiversity of our planet for years.

HB
PROTECTIVE
WEAR





A LOT HAS CHANGED
FOR US IN THE LAST
68 YEARS
— JUST NOT
OUR VALUES.



IMPECCABLE CORPORATE CONDUCT

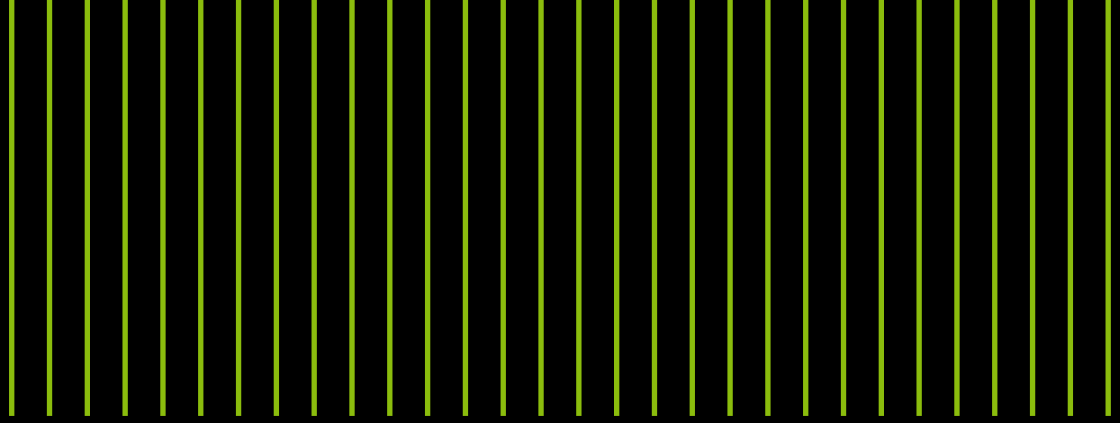
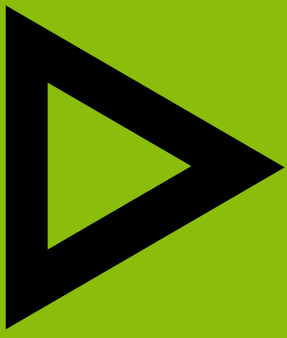
Working honestly and in partnership with employees, suppliers and customers was a matter of course for us, even in our early years. We take this aspiration all the more seriously at a time when social responsibility is a major issue in the textile and clothing industry. Our Code of Conduct, which sets down internationally valid cornerstones for our conduct as a company and ensures that our products are manufactured under fair conditions everywhere, was defined years ago. Furthermore, to ensure that all production companies, suppliers and subcontractors really work as we would like them to, we conduct in-depth social audits in addition to the usual product and process audits and if necessary, immediately initiate improvement measures.

RESPONSIBILITY FOR EMPLOYEES AND SOCIETY

Motivated people who identify with their work are a key asset for every company. It is therefore no surprise that we pay special attention to the well-being of our employees. We promote an open culture of discussion, ensure there are opportunities for development and improve the balance between work and family life with flexible working time models and our own children's day care centre, thereby laying the foundations for our employees to remain loyal to us for many years. For us, social responsibility also means that we regularly train young people at our company headquarters in Thalhausen and are specifically involved in non-profit institutions in our region or in charitable projects at our locations abroad.

LOYALTY TO THE LOCATION

The linchpin of our production and logistics network is our headquarters in Thalhausen, where we still produce sample parts and express orders today. We also manufacture at locations in Bosnia-Herzegovina, Bulgaria, Croatia, Macedonia, Moldavia, the Czech Republic and Armenia, and, to a small extent, in China. The crucial factor is that we have a long-standing partnership with all our foreign production facilities – which is essential for maintaining our high quality standards.



IF YOU WANT TO BECOME
THE MARKET LEADER,
YOU HAVE TO LEAD
ON QUALITY.



PPE IS OUR DNA

As the only manufacturer in Germany, we concentrate exclusively on developing and manufacturing protective clothing. This also means that all our energy goes into highly specialised products as well as into the continuous consolidation of our standards competence and our material and processing expertise – be it through regular standards and fabric training for our employees, active participation in relevant committees or cooperation with textile universities.

In addition, we work closely with customers, suppliers and certification institutes to continuously improve the material, functionality and comfort of our protective clothing. The result is internationally award-winning products such as our softshell jacket, which have made us not only the national market leader but also the trendsetter in the PPE industry.

QUALITY RIGHT DOWN TO THE FINEST FIBRE

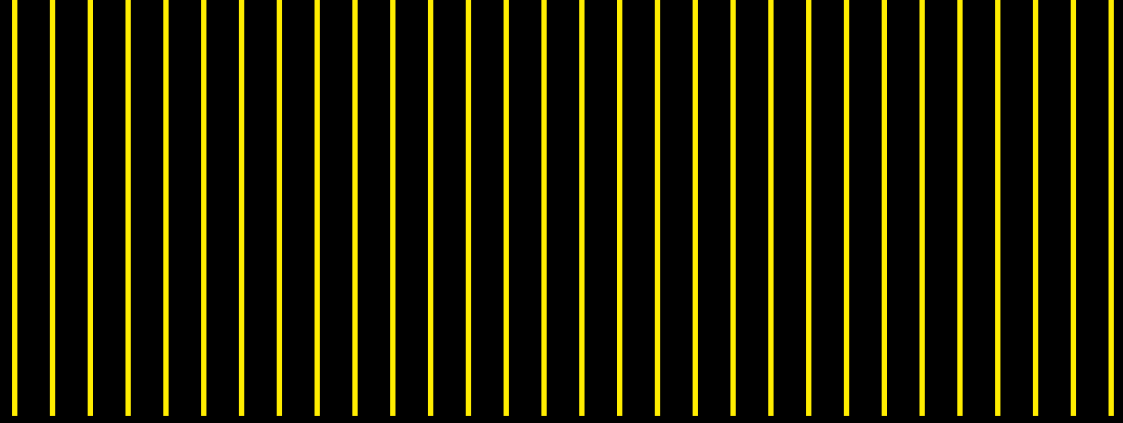
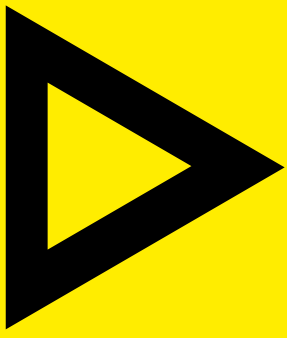
Our quality standards begin with the choice of materials and by no means end with the practicality of our designs. Extensive technical tests such as tear and loading tests guarantee the quality of the materials used, and tried-and-tested procurement processes ensure that every required product component is actually in stock. All of our products combine a high level of comfort with an eye for practical details – no matter whether it's a matter of storing work equipment or attaching kneepads precisely in place. Time and again, we impressively demonstrate with our clothing that optimum protection in the workplace and a trendy look do not have to be a contradiction in terms.

SPECIAL AS STANDARD

Thanks to high production capacities and the connection of our overseas sites to our enterprise resource planning system, we are flexible enough to react to change requests at short notice. In general, we do everything we can to meet individual requirements for modern protective clothing – from the implementation of special customer requests to the standard-compliant adaptation of clothing to the customer's design guidelines.

QUALITY IN SERIES PRODUCTION – TYPICAL FOR HB PROTECTIVE WEAR





THE KEY TO
SUCCESS?
INSPECTION, INSPECTION,
INSPECTION.

HB
PROTECTIVE
WEAR



TURTLE TESTED®

In order to consistently produce quality above the norm, we subject the raw materials to a thorough inspection at our Thalhausen headquarters as standard. Only then do we deliver the fabric bales to the individual production facilities.

At the end of production, all of the garments undergo a 100% manual final inspection.

In addition, a two-stage Acceptable Quality Limit Control takes place in Thalhausen.

During this, we check whether series production corresponds to the samples and whether all standard specifications have been met during manufacture. If there is no reason for complaint, each individual garment bears a numbered TURTLE TESTED® seal as a quality mark.

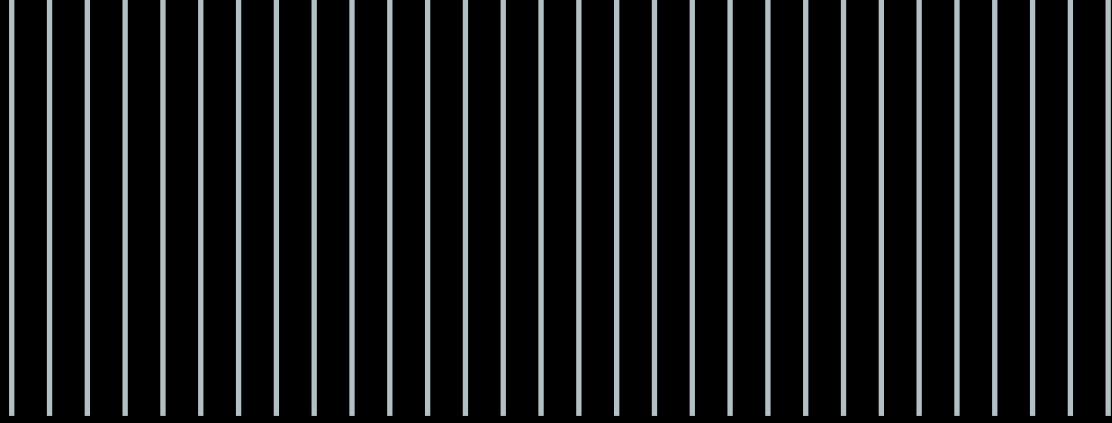
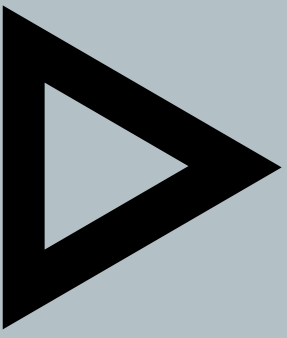


TRANSPARENT SUPPLY CHAIN

In order to not lose track of things with a production capacity of more than 1.5 million garments, we have created significant points of reference with our TURTLE TESTED® stamp and the production order number on the inner labels enabling us to detect and deal with errors quickly. In addition, it goes without saying that we have access at all times to quality assurance agreements, technical data sheets, standards and guidelines – including those of our suppliers. This means that we are always in a position to supply valid and transparent statements about the manufacture and design of our products.

SUSTAINABLE PROTECTION

We have set up our own test centre to ensure that our clothing can withstand daily use for a long time. Our strict washing tests according to ISO 15797 and ISO 6330 provide information on how HB protective clothing can be optimally cleaned and dried. For our ESD items, we measure charge decay and surface impedance in our ESD laboratory. Weight circular measurements for textiles are carried out in our climate chamber.



HIGH-SPEED DEPLOYMENT. OUR DELIVERY SERVICE 21 TO WEAR®.

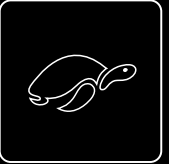


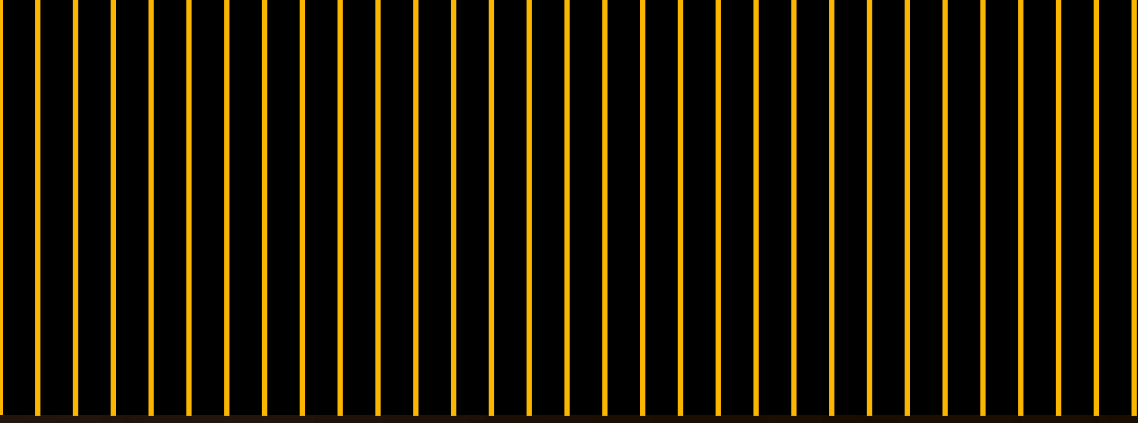
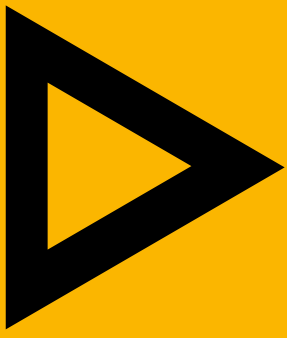
With 21 TO WEAR®, our protective clothing shifts into turbo mode. This logo indicates that we can provide you with items that are not immediately available within 21 days. Europe-wide. From just one part.

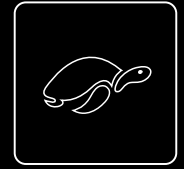
- For all those who urgently need PPE
- Quick reaction to immediate requirements
- So that your employees can get started straight away
- 100 % HB quality
- Reduces your warehousing
- With 21 TO WEAR®, we also supply models with additional features such as knee pockets and reflective stripes



HB
PROTECTIVE
WEAR







TAILOR-MADE PROTECTION EVEN FOR INDIVIDUALISTS: READY TO WEAR.

ONE SYSTEM – OVER A THOUSAND POSSIBILITIES

Based on the HB-SecureAllround® product range, we have developed READY TO WEAR – an innovative system with which even small and medium-sized businesses can put together their individual protective clothing to match their corporate design. HB-SecureAllround® offers protection against a wide range of hazards – arcs, heat, flames, splashes of molten iron and chemicals – and a wide range of applications. The collection is, of course, also suitable for use in industrial laundries.



FREE SELECTION

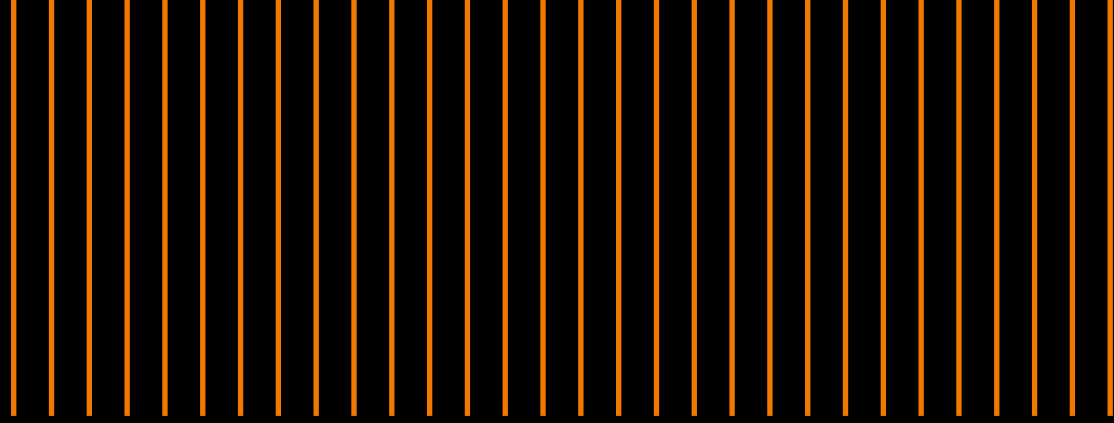
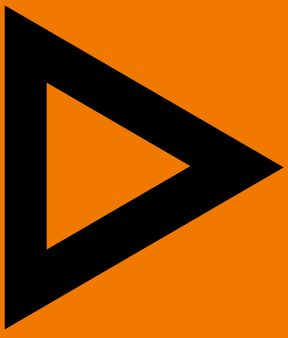
You can choose from four items (jacket, trousers, bib and brace trousers, and coveralls), 216 colour combinations, 12 alternative features (reflective stripes, knee pockets and a second leg pocket or ruler pocket) and 28 sizes – all of which can be combined freely. This maximum flexibility is complemented by a minimum

delivery time: your tailor-made collection will be with you in 21 days* at the latest. Naturally with a modern design and excellent wearing characteristics, as you have come to expect from HB.

DESIGN YOUR OWN PROTECTIVE CLOTHING!

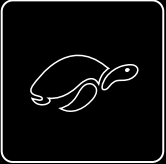
Just try out the possibilities – you can find our READY TO WEAR configurator online at www.hb-ready-to-wear.com.

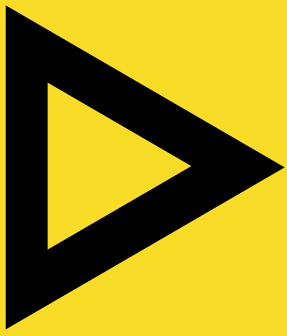
* The delivery time is a few days longer outside Germany. The minimum order quantity is 15 pieces per item.



BECAUSE DANGERS RARELY COME ALONE: MULTI-RISK PROTECTION FROM HB.

In some professions, you are exposed to a multitude of risks. We have therefore developed Multi-Risk products with extreme protection properties and innovative design features and functionalities. Their advantage is that they protect against several hazards at once and are therefore perfectly suited for workplaces with diverse risk profiles. They can be found in our various product segments, from Arc & Energy to HiVis & Weather – easily recognised by the Multi-Risk symbol.





MULTI-RISK PROTECTION RIGHT DOWN TO THE FINEST FIBRE.

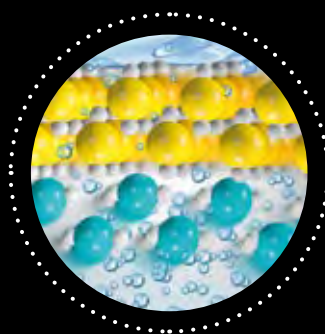
Our working environment is becoming more and more complex, while the variety of tasks in individual workplaces is increasing. Multi-Risk PPE makes sense in many cases because it can protect against numerous risks. However, you should bear in mind that complete protection also involves compromises, because 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.

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.



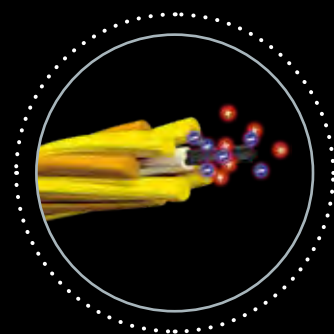
Pictograms

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



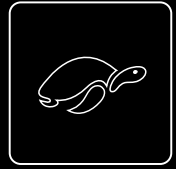
Details of polyurethane membrane

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

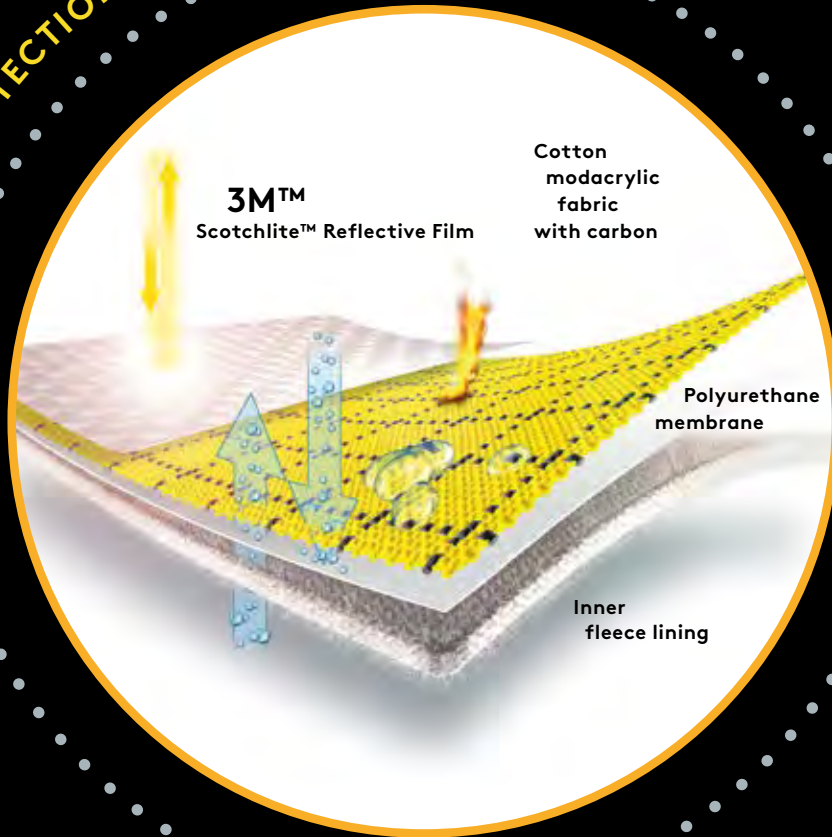


Yarn details with carbon fibre

Cotton and modacrylic fibres plus Polyamide fibre with carbon core.



HIGHTECH PROTECTION TO EVERY DETAIL



Highly visible

The special surface structure of the attached retroreflective 3M ScotchliteTM Premium 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

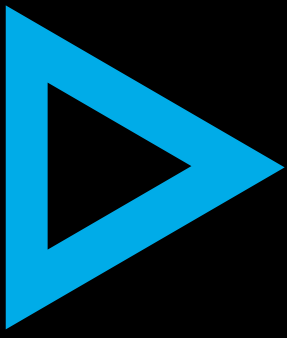
Material design and volume allow for very good heat insulation. External heat energy is stopped, and the escape of body heat is prevented.

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.

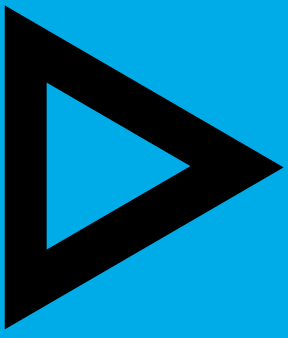


YOU DON'T LIKE
ADHERING TO
STANDARDS?
FORTUNATELY YOUR
OUTFIT DOES.

Nobody likes to be subject to strict restrictions, especially when choosing their clothes. Fortunately, this is not necessary with our Arc & Energy products. From work jackets to coveralls, they offer maximum variety and the utmost comfort. And yet they do not make any compromises when it comes to compliance with the applicable standards for protection against arcs and the risk of flammability.

ARC &
ENERGY





MATERIAL AND PRODUCT HIGHLIGHT

THE REFLECTIVE STRIPES OF OUR NEW POLO-SHIRT ARE SEGMENTED. THEREFORE THE SHIRT IS PARTICULARLY LIGHT AND SMOOTH AND ELASTICALLY ADAPTS THE WEARER'S MOVEMENTS.

LIGHT-WEIGHT

THE POLO SHIRT PERFECTLY FITS WITH THE TROUSERS OF ALL THREE PRODUCT LINES HB-MODarc[®], HB-MODarc + Reflective[®] AND HB-MODarc & vis[®].

ARC &
ENERGY



INDURA® UltraSoft®

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

MATERIAL: INDURA® UltraSoft® // 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



1 | WORK JACKET


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.

Part number: **01063 10049 000 2027**

Garment weight: approx. 765 g

Regular sizes: 46-58 & 94-110

Secondary sizes: 44, 60-64, 24-29

 royal/navy/red

Wearing comfort: ★ ★

Standards:



IEC 61482-2 Class 1 EN ISO 11612 A1+A2/B1/C1/E3 EN ISO 11611 Class 1 A1+A2

Wristbands with covered buttons



2 | TROUSERS

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.

Part number: **01063 20029 000 41**

Garment weight: approx. 710 g

Regular sizes: 46–58 & 94–110

Secondary sizes: 44, 60–64, 24–29

 royal

Wearing comfort: ★ ★

Standards:



IEC 61482-2
Class 1



EN ISO 11612
A1+A2/B1/C1/E3



EN ISO 11611
Class 1 A1+A2



3 | BIB AND BRACE TROUSERS

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.

Part number: **01063 50002 016 2027**

Garment weight: approx. 870 g

Regular sizes: 46–58 & 94–110

Secondary sizes: 44, 60–64, 24–29

 royal/navy/red

Wearing comfort: ★ ★

Standards:



IEC 61482-2
Class 1



EN ISO 11612
A1+A2/B1/C1/E3



EN ISO 11611
Class 1 A1+A2

Ruler pocket with flap
and covered
snap fastener



..... Side seam
pocket

INDURA® UltraSoft® knit

INDURA® UltraSoft® knit combines flame proofing and high wearing comfort and correspondingly represents the perfect underwear: Worn together with our FR outer wear, the shirts and polo's offer most high flame protection. If they are combined with our outer wear for EX areas, they are alternatively suited for protection against explosion hazards. INDURA® UltraSoft® knit is permanently flame-retardant through its whole service life.

MATERIAL: INDURA® UltraSoft® knit // 88 % COTTON, 12 % POLYAMIDE · **ATPV VALUE:** 11.6 cal/cm² · 456.3 kJ/m² · **HAF VALUE:** 83.0 % · **FABRIC WEIGHT:** approx. 220 g/m² · **FIELDS OF APPLICATION:** Electric industry and installation, plant engineering and construction, public services, electricians

WESTEX
"Milken"



Polo collar with covered snap fasteners



FR as direct embroidery

1 | POLO FR LONG-SLEEVED


Two-coloured • shirt design and cut based on denim look • 2-needle stitching with contrast colour • collar with polo placket in grey or red with covered snap fasteners • standard pictograms as direct FR embroidery on the sleeve.


Part number: **01102 80011 000 + COLOUR NO.**

Garment weight: approx. 385 g

Regular sizes: Unisex S–XL

Secondary sizes: Unisex XS, XXL, XXXL

 **2040** navy/red

 **2043** navy/medium grey

Wearing comfort: ★ ★

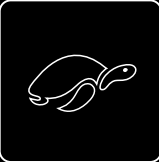
Standards:



IEC 61482-2
Class 1



EN ISO 11612
A1/B1/C1



HB logo as direct embroidery



FR as direct embroidery

2 | T-SHIRT FR LONG-SLEEVED

Single-coloured • shirt design and cut based on denim look • 2-needle stitching with contrast colour • comfortable round neck • standard pictograms as direct FR embroidery on the sleeve.

Part number: **01102 80010 000 + COLOUR NO.**

Garment weight: approx. 350 g

Regular sizes: Unisex S–XL

Secondary sizes: Unisex XS, XXL, XXXL

22 orange

45 navy

50 silver

Wearing comfort: ★ ★

Standards:



IEC 61482-2
Class 1



EN ISO 11612
A1/B1/C1



HB-SecureAllround®

Our proven multifunctional mixed fabric has been shrinkage-optimised. The cut has also been improved, thereby also enhancing the wearer comfort. These versatile garments are suitable for protection against Arc Flashes, heat, flame and chemicals as well as particularly against liquid iron splashes.

MATERIAL: HABETEX® unlimited // 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

HABETEX®

1 | JACKET

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 slot pockets with zip and with flap and covered snap fasteners · snap fasteners for adjusting sleeve width · neck label · FR standard pictograms on the front.

Part number: **01128 10134 020 3026**

Garment weight: approx. 1,240 g

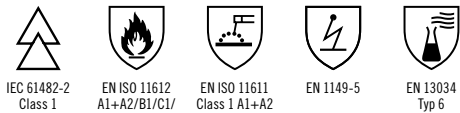
Regular sizes: 46-58 & 94-110

Secondary sizes: 44, 60-64, 24-29

■ ■ ■ dark blue/medium grey/red

Wearing comfort: ★ ★

Standards:



2 | TROUSERS

Single-coloured · waistband elasticated at the side · waistband fastening with covered patented buttons on both sides · front zip · 2 side wing pockets · 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.

Part number: **01128 20081 050 3026**

Garment weight: approx. 1,060 g

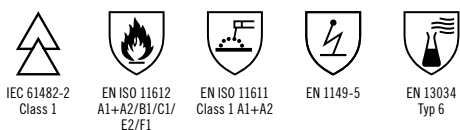
Regular sizes: 46-58 & 94-110

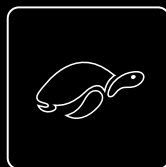
Secondary sizes: 44, 60-64, 24-29

■ ■ ■ dark blue/medium grey/red

Wearing comfort: ★ ★

Standards:





HB-SecureAllround® can also be configured with our **READY TO WEAR** system to suit your personal requirements. 216 colour combinations, 12 equipment versions and all delivered within 21 days* thanks to our HB high-speed delivery service.



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

3 | COVERALL

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&loop fastening • 2 side pockets with flaps • sleeve width adjustable with snap fasteners • neck label • 1 back pocket • 1 thigh pocket with 1 interior mobile phone-/pen-pocket – each with flap and covered snap fasteners • FR standard pictograms on the arms.

Part number: **01128 30014 050 3026**

Garment weight: approx. 1,590 g

Regular sizes: 46–58 & 94–110

Secondary sizes: 44, 60–64, 24–29

dark blue/medium grey/red

Wearing comfort: ★ ★

Standards:



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
Typ 6

4 | BIB AND BRACE TROUSERS

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.

Part number: **01128 50061 050 3026**

Garment weight: approx. 1,340 g

Regular sizes: 46–58 & 94–110

Secondary sizes: 44, 60–64, 24–29

dark blue/medium grey/red

Wearing comfort: ★ ★

Standards:



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
Typ 6



Closure band with snap fasteners covered on both sides



Elasticated section for kidney protection

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

*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.

HB-FlameSoft®

Perfectly suited for explosive areas and the 7 kA version now doubled with a lighter inner ply. Our HB-FlameSoft® cotton fabric combines life-long flame-retardant and antistatic properties with a very good protection against Electric Arcs. The soft and safe material ensures high wearing comfort.

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

1-PLY: ATPV VALUE: 16.0 cal/cm² · 669.8 kJ/m² · **HAF VALUE:** 83.0 % · **FABRIC WEIGHT:** approx. 345 g/m²

2-PLY: FABRIC WEIGHT: + approx. 260 g/m² · **FIELDS OF APPLICATION:** Plant engineering and construction, electric industry and installation, metal works, electricians



Added waistband with elastic band in back part



Please have a look at our HB-FlameSoft®-Shirts on page 34.

3M™ Scotchlite™ reflective stripes No. 8940 suitable for industrial laundry

Mobile phone pocket inside of left front pocket

1 | BLOUSON, 1-PLY AND 2-PLY

Two-coloured • front and back yoke with flame-retardant reflective stripes suitable for industrial laundry • no Hi-Vis protective clothing acc. to EN ISO 20471 • high band collar • closure band with covered 2-way zip fastener and covered snap fasteners • 2 front pockets and 2 side pockets, each with flap(s) and covered snap fasteners • 1 inner pocket on the right with hook&loop fastener • FR standard pictograms on the front.

Part number 1-ply: **01228 10028 004 + COLOUR NO.**

Garment weight: approx. 985 g

Part number 2-ply: **01228 10028 022 + COLOUR NO.**

Garment weight: approx. 1,160 g

Regular sizes: 46-58 & 94-110

Secondary sizes: 44, 60-64, 24-29

2071 medium grey/red

2041 navy/royal

Wearing comfort: ★ ★

Standards 1-ply:



IEC 61482-2 Class 1



EN ISO 11612 A1+A2/B1/C1/F1



EN ISO 11611 Class 1 A1+A2



EN 1149-5

Standards 2-ply:

IEC 61482-2 Class 2*

EN ISO 11612 A1+A2/B1/C1/F1

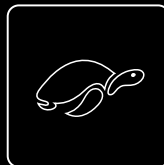
EN ISO 11611 Class 1 A1+A2

EN 1149-5

* front and sleeves



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




2 | TROUSERS, 1-PLY AND 2-PLY

Two-coloured • added waistband • zip fly • 2 slant pockets • 1 hip pocket with flap • 1 double ruler pocket on the right • 1 leg pocket with bellows on the back and flap with covered snap fastener • flame-retardant reflective stripes at leg, suitable for industrial laundry • no Hi-Vis protective clothing acc. to EN ISO 20471.

Part number 1-ply: **01228 20006 005 + COLOUR NO.**
Garment weight: approx. 790 g

Part number 2-ply: **01228 20006 020 + COLOUR NO.**
Garment weight: approx. 900 g

Regular sizes: 46–58 & 94–110
Secondary sizes: 44, 60–64, 24–29

 **2071** medium grey/red

 **2041** navy/royal

Wearing comfort: ★ ★

Standards 1-ply:



IEC 61482-2
Class 1



EN ISO 11612
A1+A2/B1/C1/F1



EN ISO 11611
Class 1 A1+A2



EN 1149-5

Standards 2-ply:

IEC 61482-2
Class 2*

EN ISO 11612
A1+A2/B1/C1/F1

EN ISO 11611
Class 1 A1+A2

EN 1149-5

* front trousers

2 and 3 |
Leg pocket with
covered snap
fastener



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


3 | BIB AND BRACE TROUSERS, 1-PLY AND 2-PLY

Two-coloured • fix-lock stretch braces • high-cut kidney protection • zip fly • bib with outer pocket and flap • 2 slant pockets • 1 hip pocket with flap • 1 double ruler pocket on the right • 1 leg pocket with bellows and flap with covered snap fasteners • 2 side accesses adjustable via buttons • FR reflective stripes at legs and bib, suitable for industrial laundry • no Hi-Vis protective clothing acc. to EN ISO 20471.

Part number 1-ply: **01228 50020 000 + COLOUR NO.**
Garment weight: approx. 990 g

Part number 2-ply: **01228 50020 014 + COLOUR NO.**
Garment weight: approx. 1,080 g

Regular sizes: 46–58 & 94–110
Secondary sizes: 44, 60–64, 24–29

 **2071** medium grey/red

 **2041** navy/royal

Wearing comfort: ★ ★

Standards 1-ply:



IEC 61482-2
Class 1



EN ISO 11612
A1+A2/B1/C1/F1



EN ISO 11611
Class 1 A1+A2



EN 1149-5

Standards 2-ply:

IEC 61482-2
Class 2*

EN ISO 11612
A1+A2/B1/C1/F1

EN ISO 11611
Class 1 A1+A2

EN 1149-5

* front trousers



Trousers and bib and brace trousers additionally available with knee pockets and within our high-speed delivery service "21 TO WEAR®" without stock-keeping. More information on page 225 or look at: www.21towear.de



Our popular HB-FlameSoft® shirt now additionally offers antistatic functionality further to protection against Arc Flash, welding splatters and heat & flame.

MATERIAL: 87 % COTTON, 12 % POLYAMIDE, 1 % CARBON · **ATPV VALUE:** 11.0 cal/cm² · 460.2 kJ/m² ·
HAF VALUE: 76.0 % · **FABRIC WEIGHT:** approx. 280 g/m² · **FIELDS OF APPLICATION:** Liquid metal works, energy suppliers, electric industry and installation, electricians



HB logo as direct embroidery



1 | SHIRT

Single-coloured • cut and design based on denim look • 2-needle stitching with contrast colour • band collar • closure band with snap fasteners covered on both sides • front pocket on the left and wristband with covered snap fasteners • back part with movement pleats • standard pictograms as direct embroidery on right cuff.

Part number: **01227 60014 010 + COLOUR NO.**

Garment weight: approx. 565 g

Regular sizes: 39/40 – 47/48

Secondary sizes: 37/38, 49/50, 51/52

41 royal

45 navy

52 medium grey

22 orange

Wearing comfort: ★ ★

Standards:



IEC 61482-2
Class 1



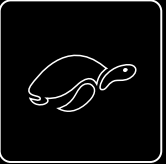
EN ISO 11612
A1+A2/B1/C1/
E1/F1



EN ISO 11611
Class 1 A1+A2



EN 1149-5



Denim-Look



Standard pictograms as direct embroidery



HB-ArcSelect

Our INDURA®UltraSoft® antistatic is a flame-retardant fabric with antistatic properties. It offers excellent protection against Arc Flashes. The very soft material follows every movement and offers high wearing comfort. The front of the jacket, the sleeves and the front of the legs of the 2-ply versions are manufactured with a second inner layer of the same material.

MATERIAL: 87 % COTTON, 12 % POLYAMIDE, 1 % CARBON · **1-PLY: ATPV VALUE:** 16.0 cal/cm² · 669.8 kJ/m² · **HAF VALUE:** 83.0 % · **FABRIC WEIGHT:** approx. 345 g/m² · **2-PLY: FABRIC WEIGHT:** + approx. 260 g/m² · **FIELDS OF APPLICATION:** Plant construction, pipeline and line construction, electricians, public services, steel works, switchgear construction, communication, gas and water networks



3M™ Scotchlite™ Reflective elements on front, back and sleeves, suitable for industrial laundry



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

Side pockets with covered zip fastener

1 | BLOUSON, 1-PLY AND 2-PLY

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.

Part number 1-ply: **01004 10000 001 + COLOUR NO.**
Garment weight: approx. 950 g

Part number 2-ply: **01004 10000 002 + COLOUR NO.**
Garment weight: approx. 1,100 g

Regular sizes: 46–58 & 94–110
Secondary sizes: 44, 60–64, 24–29

2027 royal/navy
 2071 medium grey/red

Wearing comfort: ★ ★ ★

Standards 1-ply:



IEC 61482-2
APC 1



EN ISO 11612
A1/B1/C1/E2/F1



EN ISO 11611
Class 1 A1



EN 1149-5

Standards 2-ply:

IEC 61482-2
APC 2*

EN ISO 11612
A1/B1/C1/E2/F1

EN ISO 11611
Class 1 A1

EN 1149-5

* front part and sleeves



Standard pictograms as flame-retardant direkt embroidery





2 | TROUSERS, 1-PLY AND 2-PLY

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.

Part number 1-ply: **01004 20000 001 + COLOUR NO.**
Garment weight: approx. 760 g

Part number 2-ply: **01004 20000 002 + COLOUR NO.**
Garment weight: approx. 870 g

Regular sizes: 46-58 & 94-110
Secondary sizes: 44, 60-64, 24-29

 **2041** navy/royal
 **2071** medium grey/red

Wearing comfort: ★ ★ ★
Standards 1-ply:



IEC 61482-2
APC 1



EN ISO 11612
A1/B1/C1/E2/F1



EN ISO 11611
Class 1 A1



EN 1149-5

Standards 2-ply:

IEC 61482-2
APC 2*

EN ISO 11612
A1/B1/C1/E2/F1

EN ISO 11611
Class 1 A1

EN 1149-5

* front trousers

2 and 3 |
3M™ Scotchlite™
reflective elements
suitable for
industrial laundry
.....



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



3 | BIB AND BRACE TROUSERS, 1-PLY AND 2-PLY

Two-coloured • fix-lock stretch braces • 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.

Part number 1-ply: **01004 50100 001 + COLOUR NO.**
Garment weight: approx. 960 g

Part number 2-ply: **01004 50100 002 + COLOUR NO.**
Garment weight: approx. 1,050 g

Regular sizes: 46-58 & 94-110
Secondary sizes: 44, 60-64, 24-29

 **2041** navy/royal
 **2071** medium grey/red

Wearing comfort: ★ ★ ★
Standards 1-ply:



IEC 61482-2
APC 1



EN ISO 11612
A1/B1/C1/E2/F1



EN ISO 11611
Class 1 A1



EN 1149-5

Standards 2-ply:

IEC 61482-2
APC 2*

EN ISO 11612
A1/B1/C1/E2/F1

EN ISO 11611
Class 1 A1

EN 1149-5

* front trousers



HB-4arc®

Our high-end electric arc protection HB-4arc® is suitable for extreme load thanks to its particular high ATPV. It meets the requirements of IEC 61482-2 class 2 (7 kA) 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.

MATERIAL: INDURA® UltraSoft® // 87 % COTTON, 12 % POLYAMIDE, 1 % CARBON ·

ATPV VALUE: 37.0 cal/cm² · 1,549.1 kJ/m² · The ATPV refers to the 2-ply parts · **HAF VALUE:** 94,0 % ·

FABRIC WEIGHT: approx. 390 g/m² · **FIELDS OF APPLICATION:** Metal works, public services, energy suppliers, plant construction, electrical installation, electricians



Easy fit: Shaped elbow with dart



1 | BLOUSON

Two-coloured • front parts and sleeves 2-ply • 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 • standard pictograms on the front as FR direct embroidery.

Part number: **01123 10107 029 2043**

Garment weight: approx. 1,265 g

Regular sizes: 46-58 & 94-110

Secondary sizes: 44, 60-64, 24-29

■ navy/medium grey

Wearing comfort: ★ ★

Standards:



IEC 61482-2
Class 2*
* front and sleeves



EN ISO 11612
A1+A2/B1/C1/F1

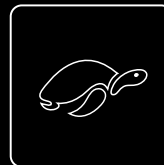


EN ISO 11611
Class 1 A1+A2



EN 1149-5

Electric Arc Flash protection 7 kA



2 | TROUSERS

Two-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 bellow pocket on the left (+ mobile phone pocket) – each with flap and covered snap fastener • shaped knees • knee pockets with covered hook&loop fastener.

Part number: **01123 20060 020 2043**

Garment weight: approx. 1,085 g

Regular sizes: 46–58 & 94–110

Secondary sizes: 44, 60–64, 24–29

navy/medium grey

Wearing comfort: ★ ★

Standards:



IEC 61482-2
Class 2*



EN ISO 11612
A1+A2/B1/C1/F1



EN ISO 11611
Class 1 A1+A2



EN 1149-5

* front trouser



2 and 3 |
Knee pockets with covered
FR hook&loop fastener

Bellows pocket
with additional
mobile pocket



3 | BIB AND BRACE TROUSERS

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

Part number: **01123 50041 047 2043**

Garment weight: approx. 1,275 g

Regular sizes: 46–58 & 94–110

Secondary sizes: 44, 60–64, 24–29

navy/medium grey

Wearing comfort: ★ ★

Standards:



IEC 61482-2
Class 2*



EN ISO 11612
A1+A2/B1/C1/F1



EN ISO 11611
Class 1 A1+A2



EN 1149-5

* front trouser



2 and 3 |
front
trousers
2-ply

HB-ArcPro

This protective clothing allows you to work safely and comfortably in areas at risk of arc flashes where class 2 welding protection is also required. All models are manufactured from a lightweight cotton/modacrylic mix and are very comfortable to wear. In the two-layer models, crucial areas such as the fronts and sleeves have a double-layer material structure.

MATERIAL: HABETEX® fusion // 50 % COTTON, 39 % MODACRYLIC, 10 % VISCOSE, 1 % CARBON ·
1-PLY: EBT50 VALUE: 12.1 cal/cm² · 506,2 kJ/m² · HAF VALUE: 83,0 % · FABRIC WEIGHT: approx. 295 g/m²
2-PLY: FABRIC WEIGHT: + approx. 175 g/m² · **FIELDS OF APPLICATION:** Energy suppliers, plant construction, electricians, liquid metal splashes



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



2 and 3 |
 Knee pockets

1, 2 and 3 |
 Attached breast pockets with flaps and covered snap fasteners

1, 2 and 3 |
 3M™ Scotchlite™ reflective stripes No. 8940 suitable for industrial laundry



1 | JACKET, 1-PLY AND 2-PLY

Two-coloured • stand-up collar • front zip with attached panel and covered snap fasteners • 2 attached breast pockets with flaps and covered snap fasteners, side slot pockets with flaps and covered snap fasteners • snap fasteners for adjusting sleeve width • 3M™ Scotchlite™ reflective stripes No. 8940, suitable for industrial laundry • no Hi-Vis protective clothing acc. to EN ISO 20471 • neck label • FR standard pictograms on the front • class 2 jacket duplicated on the front and sleeves.

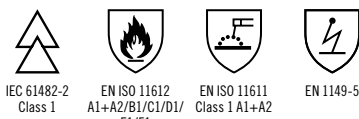
Part number 1-ply: **01156 10134 001 + COLOUR NO.**
 Garment weight: approx. 1,020 g

Part number 2-ply: **01156 10134 002 + COLOUR NO.**
 Garment weight: approx. 1,250 g

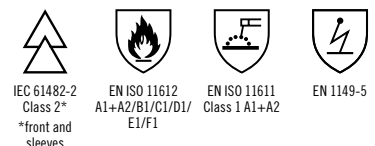
Regular sizes: 46-58 & 94-110
 Secondary sizes: 44, 60-64, 24-29

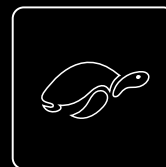
2040 navy/red
2080 anthracite grey/pure orange
 Wearing comfort: ★ ★

1, 2 and 3 |
 Standards 1-ply:



Standards 2-ply:





2 | TROUSERS, 1-PLY AND 2-PLY

Two-coloured • waistband elasticated on the side • waistband fastening with covered buttons on both sides • front zip, 2 wing pockets • 1 back pocket with flap and covered snap fasteners • 1 thigh pocket with flap and covered snap fasteners and with 1 interior mobile phone-/pen-pocket • 1 ruler pocket on the right • knee pockets • 3M™ Scotchlite™ reflective stripes No. 8940, suitable for industrial laundry • no Hi-Vis protective clothing acc. to EN ISO 20471 • class 2 trousers duplicated on the front of the trousers.


Part number 1-ply: **01156 20081 001 + COLOUR NO.**


Garment weight: approx. 870 g

Part number 2-ply: **01156 20081 002 + COLOUR NO.**

Garment weight: approx. 1,070 g

Regular sizes: 46–58 & 94–110 · Secondary sizes: 44, 60–64, 24–29

 **2040** navy/red

 **2080** anthracite grey/pure orange

Wearing comfort: ★ ★



3 | BIB AND BRACE TROUSERS, 1-PLY AND 2-PLY

Two-coloured • stretch braces • front zip, inside bib pocket with flap • 2 wing pockets • 2 side accesses with button fastening • 1 back pocket • 1 thigh pocket with flap and covered snap fasteners and with 1 interior mobile phone/pen pocket • 1 ruler pocket on the right • knee pockets • elasticated section for kidney protection • 3M™ Scotchlite™ reflective stripes No. 8940, suitable for industrial laundry • no Hi-Vis protective clothing acc. to EN ISO 20471 • class 2 bib and brace trousers duplicated on the front of the trousers.


Part number 1-ply: **01156 50061 001 + COLOUR NO.**


Garment weight: approx. 1,100 g

Part number 2-ply: **01156 50061 002 + COLOUR NO.**

Garment weight: approx. 1,300 g

Regular sizes: 46–58 & 94–110 · Secondary sizes: 44, 60–64, 24–29

 **2040** navy/red

 **2080** anthracite grey/pure orange

Wearing comfort: ★ ★



Material is completely doubled

4 | SAFETY COAT, 2-PLY

Single-coloured • high band collar with covered hook&loop fastener • covered zipper, covered with hook&loop fastener • left-side chest pocket with hook&loop fastener • sleeve width adjustable with hook&loop • pictogram stitching on left sleeve.

Part number: **01156 4M000 001 45**

Garment weight: approx. 1,670 g

Regular sizes: 46/48–58/60 · Secondary sizes: 42/44–62/64

 navy

Wearing comfort: ★ ★

Standards:



HB-MODarc®

Super light-weight material meets high protection. This fabric is extremely soft and offers high wearing comfort with easy fit and much freedom of movement. Thanks to our modern design it looks like an outdoor garment which provides workers at the same time with up to 7 kA Arc Flash protection. Available as 1- and 2-ply version. All pockets with handy tab to open.

MATERIAL: HABETEX® protect // 55 % MODACRYLIC, 43 % COTTON, 2 % CARBON ·

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

2-PLY: EBT50-VALUE: 20.0 cal/cm² · 837.3 kJ/m² · **HAF VALUE:** 88.9 % · **FABRIC WEIGHT:** + approx. 175 g/m²

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



Formed elbows for more movement freedom



Band collar with covered snap fastener

Pockets with handy tab to open

Completely manufactured in roof-tile design



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

21 TO WEAR

All other variants are available via our 21 TO WEAR® high-speed delivery service. For more information see the **model overview** on page 225.

1 | BLOUSON, 1-PLY AND 2-PLY

Two-coloured • raw white contrast stitching • stand-up collar with covered snap fastener • covered zip • 2 front pockets (one as mobile phone 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 • standard pictograms on front as FR direct stitching.

Part number 1-ply: **01072 10107 034 2251**

Garment weight: approx. 835 g

Part number 2-ply: **01072 10107 035 2251**

Garment weight: approx. 910 g

Regular sizes: 46–58 & 94–110

Secondary sizes: 44, 60–64, 24–29

grey/black

Wearing comfort: ★ ★

Standards 1-ply:



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

Standards 2-ply:

IEC 61482-2
APC 2*

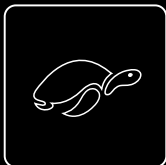
* front and sleeves

EN ISO 11612
A1+A2/B1/C1/F1

EN ISO 11611
Class 1 A1+A2

EN 1149-5

EN 13034
Type 6



2 | TROUSERS, 1-PLY AND 2-PLY

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.

Part number 1-ply: **01072 20074 002 + COLOUR NO.**

Garment weight: approx. 730 g

Part number 2-ply: **01072 20074 003 + COLOUR NO.**

Garment weight: approx. 845 g

Regular sizes: 46–58 & 94–110

Secondary sizes: 44, 60–64, 24–29

■ **2188** black/grey

■ **2251** grey/black

Wearing comfort: ★ ★

Standards 1-ply:



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

Standards 2-ply:

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

* front trousers



2 and 3 |
Bellows pocket
with additional
attached pocket

2 and 3 |
Knee pockets
with hook&loop
fastener

3 | BIB AND BRACE TROUSERS, 1-PLY AND 2-PLY

Two-coloured • raw white contrast stitching • fix-lock stretch braces • 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.

Part number 1-ply: **01072 50055 002 + COLOUR NO.**

Garment weight: approx. 855 g

Part number 2-ply: **01072 50055 003 + COLOUR NO.**

Garment weight: approx. 970 g

Regular sizes: 46–58 & 94–110

Secondary sizes: 44, 60–64, 24–29

■ **2188** black/grey

■ **2251** grey/black

Wearing comfort: ★ ★

Standards 1-ply:



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

Standards 2-ply:

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

* front trousers



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

HB-MODarc + Reflective®

Due to high demand, we now also offer our popular HB-MODarc® collection with reflective stripes. The two-ply models of this powerful Arc Flash PPE are double-worked on the front and sleeves and protect against electric arcs up to 7 kA. The super-light material provides a good fit and freedom of movement.

MATERIAL: HABETEX® protect // 55 % MODARCRYLIC, 43 % COTTON, 2 % CARBON ·

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

2-PLY: EBT50-VALUE: 20.0 cal/cm² · 837.3 kJ/m² · **HAF VALUE:** 88.9 % · **FABRIC WEIGHT:** + approx. 175 g/m² ·

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



21 TO WEAR

All other variants are available via our 21 TO WEAR® high-speed delivery service. For more information see the model overview on page 225.



Completely manufactured in roof-tile design

3M™ Scotchlite™ reflective stripes No. 8940, suited for industrial laundry

Band collar with covered snap fastener



1 | BLOUSON, 1-PLY AND 2-PLY

Two-coloured • raw white contrast stitching • stand-up collar with covered snap fastener • covered zip • 2 front pockets (1 as mobile phone 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 • standard pictograms on front as FR direct stitching • no Hi-Vis protective clothing acc. to EN ISO 20471.

Part number 1-ply: **01072 10107 039 2251 + COLOUR NO.**

Garment weight: approx. 895 g

2251 grey/black

2041 navy/royal

Part number 2-ply: **01072 10107 038 2251**

Garment weight: approx. 970 g

grey/black

Regular sizes: 46–58 & 94–110

Secondary sizes: 44, 60–64, 24–29

Wearing comfort: ★ ★

Standards 1-ply:



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

Standards 2-ply:

IEC 61482-2
APC 2*

* front and sleeves

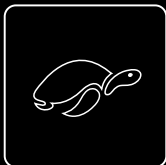
EN ISO 11612
A1+A2/B1/C1/F1

EN ISO 11611
Class 1 A1+A2

EN 1149-5

EN 13034
Type 6

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



2 | TROUSERS, 1-PLY AND 2-PLY

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 • no Hi-Vis protective clothing acc. to EN ISO 20471.

Part number 1-ply: **01072 20074 009 2188 // 01072 20074 016 45**
Garment weight: approx. 765 g

Part number 2-ply: **01072 20074 008 2188 // 01072 20074 015 45**
Garment weight: approx. 880 g

Regular sizes: 46–58 & 94–110
Secondary sizes: 44, 60–64, 24–29

■ ■ ■ **2188** black/grey

■ **45** navy

Wearing comfort: ★ ★

Standards 1-ply:



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

Standards 2-ply:

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

* front trousers



2 and 3 |

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

3 | BIB AND BRACE TROUSERS, 1-PLY AND 2-PLY

Two-coloured • raw white contrast stitching • fix-lock stretch braces • 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 • no Hi-Vis protective clothing acc. to EN ISO 20471.

Part number 1-ply: **01072 50055 009 2188 // 01072 50055 014 45**
Garment weight: approx. 890 g

■ ■ ■ **2188** black/grey

■ **45** navy

Part number 2-ply: **01072 50055 008 2188**

Garment weight: approx. 1,005 g

■ ■ ■ black/grey

Regular sizes: 46–58 & 94–110
Secondary sizes: 44, 60–64, 24–29

Wearing comfort: ★ ★

Standards 1-ply:



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

Standards 2-ply:

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

* front trousers



2 and 3 |

Bellows pocket with additional attached pocket

2 and 3 |

3M™ Scotchlite™ reflective stripes No. 8940, suited for industrial laundry

HB-MODarc & vis®

Multi-functional PPE in signal colour yellow, suited for applications which require multiple standards in combination with High Visibility and Arc Flash protection. Available as 1-ply or 2-ply version. Both offer many handy pockets such as for mobile, pens or ruler and 3M™ FR reflective stripes suitable for industrial laundry. Blouson plus trousers or bib and brace trousers achieve EN ISO 20471 Class 3.

MATERIAL: HABETEX® protect // 55% MODACRYLIC, 43% COTTON, 2% CARBON · **POLOSHIRT FR** // 54 % MOD-ACRYLIC, 44 % COTTON, 2 % CARBON · **1-PLY: ATPV VALUE:** 10.4 cal/cm² · 435.4 kJ/m² · **HAF VALUE:** 80.2 % · **FABRIC WEIGHT:** approx. 275 g/m² · **2-PLY: EBT50 VALUE:** 20.0 cal/cm² · 837.3 kJ/m² · **HAF VALUE:** 88.9 % · **FABRIC WEIGHT:** + approx. 175 g/m² · **FIELDS OF APPLICATION:** Public services, public transport and construction, electricians



1 | BLOUSON, 1-PLY AND 2-PLY

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.

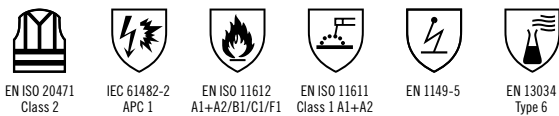
Part number 1-ply: **01072 10107 028 2112**
Garment weight: approx. 940 g

3M™ Scotchlite™ reflective stripes No. 8940, suitable for industrial laundry

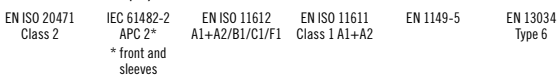
Part number 2-ply: **01072 10107 033 2112**
Garment weight: approx. 1,055 g

Regular sizes: 46–58 & 94–110 · Secondary sizes: 44, 60–64, 24–29
fluorescent yellow/navy · Wearing comfort: ★ ★

Standards 1-ply:



Standards 2-ply:



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

Pockets with handy tab to open



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

2 | TROUSERS, 1-PLY AND 2-PLY

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 • FR reflective stripes, suitable for industrial laundry.

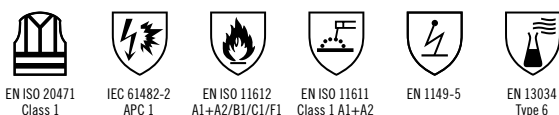
Part number 1-ply: **01072 20074 000 2112**
Garment weight: approx. 815 g

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

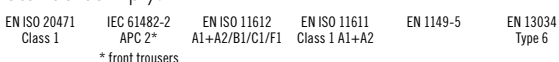
Part number 2-ply: **01072 20074 001 2112**
Garment weight: approx. 915 g

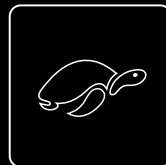
Regular sizes: 46–58 & 94–110 · Secondary sizes: 44, 60–64, 24–29
fluorescent yellow/navy · Wearing comfort: ★ ★

Standards 1-ply:



Standards 2-ply:





3 | BIB AND BRACE TROUSERS, 1-PLY AND 2-PLY

Two-coloured • parts subject to heavy soiling in blue • fix-lock stretch braces • 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 • FR reflective stripes, suitable for industrial laundry.

Part number 1-ply: **01072 50055 000 2112**
Garment weight: approx. 910 g

Part number 2-ply: **01072 50055 001 2112**
Garment weight: approx. 1,040 g

Regular sizes: 46–58 & 94–110
Secondary sizes: 44, 60–64, 24–29
fluorescent yellow/navy

Wearing comfort: ★ ★

Standards 1-ply:



EN ISO 20471
Class 1



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

Standards 2-ply:

EN ISO 20471
Class 1

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

* front trousers

2 and 3 |
Cargo pocket +
attached pocket

2 and 3 |
Flame-retardant
3M™ Scotchlite™
reflective stripes
No. 8940



4 | POLOSHIRT FR

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.

Part number: **01244 80012 003 2112**

Garment weight: approx. 300 g

Unisex Regular sizes: S–XL

Unisex Secondary sizes: XS, XXL, XXXL

fluorescent yellow/navy

Wearing comfort: ★ ★

Standards:



EN ISO 20471
Class 2



IEC 61482-2
APC 1



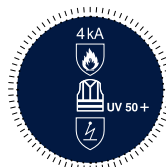
EN ISO 11612
A1+A2/B1/C1/F1



EN 1149-5



EN 13758-2



Flexible segmented
and flame-retardant
reflective stripes



Standards pictograms
on the sleeve as FR
direct embroidery

HB-ArcClassic & Vis

HB-ArcClassic & Vis was developed for work in areas at risk of arc flashes where high visibility is also required. With protection class 3 – the highest rating – HB-ArcClassic & 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 and suitable for industrial washing according to ISO 15797.

MATERIAL: HABETEX® universal // 31 % POLYESTER, 28 % MODACRYLIC, 20 % ARAMIDE, 20 % VISCOSE, 1 % CARBON · **FABRIC WEIGHT:** approx. 320 g/m² · **FIELDS OF APPLICATION:** Energy suppliers, track construction, chemical industry, public services



Waistband with elastic band



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

Standards pictograms as FR direct embroidery



Pocket on sleeve – with flap and covered hook&loop fasteners

1 | JACKET

Two-coloured • flame-retardant upper material with liner • sealed seams • stand-up collar with covered snap fastener • covered zip • 2 chest pockets with flap and covered hook&loop • 1 inner pocket on the left with hook&loop, pen pocket with 3 compartments on the left, 1 mobile phone pocket on the right • 2 side pockets and 1 pocket on left sleeve – each with flap and covered hook&loop • wristband adjustable via hook&loop • waist with elastic band on both sides • flame retardant 3M™ Scotchlite™ reflective stripes No. 8935, suited for industrial laundry • no Hi-Vis protective clothing acc. to EN ISO 20471 • standard pictograms as FR embroidery on right sleeve.

Part number: **01121 1M015 000 2147**

Garment weight: approx. 1,234 g

Regular sizes: 46–58 & 94–110

Secondary sizes: 44, 60–64, 24–29

fluorescent orange/black blue

Wearing comfort: ★ ★

Standards:



IEC 61482-2
APC 1



EN ISO 20471
Class 2



EN ISO 11612
A1/B1/C1/E1/F1



EN ISO 11611
Class 2 A1



EN 13034
Type 6



EN 1149-5

3M™ Scotchlite™ reflective stripes
No. 8935, for
better visibility



2 | TROUSERS

Two-coloured • attached waistband, elastic band on both sides, 2 snap fasteners and high kidney protection with reflective stripes • 2 slant pockets • 2 hip pockets, 1 folding rule pocket on the right and 1 bellow pocket on the left – each with flap and covered hook&loop • slit with zip • knee reinforcement on the inside • flame-retardant reflective stripes, suited for industrial laundry • no Hi-Vis protective clothing acc. to EN ISO 20471 • standard pictograms as FR embroidery on left leg.

Part number: **01121 2M008 000 2147**

Garment weight: approx. 1,031 g

Regular sizes: 46–58 & 94–110

Secondary sizes: 44, 60–66, 24–29

fluorescent orange/black blue

Wearing comfort: ★ ★

Standards:



IEC 61482-2
APC 1



EN ISO 20471
Class 2



EN ISO 11612
A1/B1/C1/E1/F1



EN ISO 11611
Class 2 A1



EN 13034
Type 6



EN 1149-5



2 and 3 |
3M™ Scotchlite™
reflective stripes
No. 8935, suited
for industrial
laundry

3 | BIB AND BRACE TROUSERS

Two-coloured • black fix-lock braces, adjustable • doubled kidney protection • 1 bib pocket with flap and covered hook&loop fastener, with mobile phone pocket and pen pocket with compartments • 2 slant pockets • 2 hip pockets, 1 folding rule 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 • slit with zip • knee reinforcement on the inside • flame retardant 3M™ Scotchlite™ reflective stripes No. 8940, suited for industrial laundry • no Hi-Vis protective clothing acc. to EN ISO 20471 • standard pictograms as FR embroidery on left leg.

Part number: **01121 5M002 000 2147**

Garment weight: approx. 1,360 g

Regular sizes: 46–58 & 94–110

Secondary sizes: 44, 60–66, 24–29

fluorescent orange/black blue

Wearing comfort: ★ ★

Standards:



IEC 61482-2
APC 1



EN ISO 20471
Class 2



EN ISO 11612
A1/B1/C1/E1/F1



EN ISO 11611
Class 2 A1



EN 13034
Type 6



EN 1149-5



2 and 3 |
Knee reinforcement

NOMEX® Viscose

Low weight and high protection: NOMEX® Viscose combines high wearing comfort, reliable protection and multi-riskprotection properties. This very stable fabric is very resistant and humidity absorbing. Trousers and bib and brace trousers are now fitted with outer knee pockets made from particularly abrasion-resistant Aramide with hook & loop fastening.

MATERIAL: NOMEX® Viscose // 50 % VISCOSE, 49 % ARAMIDE, 1 % CARBON · **ATPV VALUE:** 9.9 cal/cm² · 414.4 kJ/m² · **HAF VALUE:** 79.0 % · **FABRIC WEIGHT:** approx. 260 g/m² · **FIELDS OF APPLICATION:** Energy suppliers, public services, plant engineering and construction, electricians



1 | BLOUSON

Two-coloured • front part partially with 2-pplies • front, back, sleeve and pocket flaps with FR reflective piping, suitable for industrial laundry • no Hi-Vis protective clothing acc. to EN ISO 20471 • high band collar with strap and hook & loop fastener • 2 front and 2 side pockets, each with flap and covered hook & loop fasteners • 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.

Part number: **01031 10036 005 2030**

Garment weight: approx. 770 g

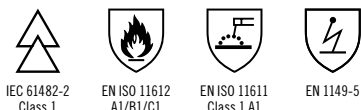
Regular sizes: 46-58 & 94-110

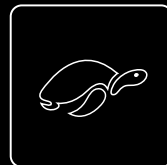
Secondary sizes: 44, 60-64, 24-29

royal/navy

Wearing comfort: ★ ★

Standards:





2 | TROUSERS


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.

Part number: **01031 20022 013 2030**

Garment weight: approx. 700 g

Regular sizes: 46–58 & 94–110

Secondary sizes: 44, 60–64, 24–29

 royal/navy

Wearing comfort: ★ ★

Standards:



IEC 61482-2
Class 1



EN ISO 11612
A1/B1/C1



EN ISO 11611
Class 1 A1



EN 1149-5



Bellow pocket with flap and hook&loop fastener

3 | BIB AND BRACE TROUSERS


Two-coloured • fix-lock stretch braces • 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.

Part number: **01031 50026 014 2030**

Garment weight: approx. 840 g

Regular sizes: 46–58 & 94–110

Secondary sizes: 44, 60–64, 24–29

 royal/navy

Wearing comfort: ★ ★

Standards:



IEC 61482-2
Class 1



EN ISO 11612
A1/B1/C1



EN ISO 11611
Class 1 A1



EN 1149-5



Reflective piping at bib and flaps

2 and 3 | Ruler pocket on the right

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

NOMEX® Comfort

NOMEX® Comfort is characterised by extraordinarily high flame proofing properties, combined with antistatic properties and a very good protection against electric arcs. Thanks to the low material weight of 260 g/m², the fabric also offers high mobility even in dangerous and uncomfortable workplaces. Fibre-inherent flame-retardant.

MATERIAL: NOMEX® Comfort // 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

DuPont™
NOMEX®



Inner front pocket with flap and snap fasteners

Front pocket with flap and covered snap fastener



1 | BLOUSON

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.

Part number: **01042 10011 001 41**

Garment weight: approx. 545 g

Regular sizes: 46-58 & 94-110

Secondary sizes: 44, 60-64, 24-29

 royal

Wearing comfort: ★ ★

Standards:



IEC 61482-2
Class 1



EN ISO 11612
A1/B1/C1/F1



EN 1149-5



2 | WORK JACKET

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.

Part number: **01042 10003 001 41**

Garment weight: approx. 580 g

Regular sizes: 46-58 & 94-110

Secondary sizes: 44, 60-64, 24-29

royal

Wearing comfort: ★ ★

Standards:



IEC 61482-2
Class 1



EN ISO 11612
A1/B1/C1/F1



EN 1149-5



3 | MEN'S COAT

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.

Part number: **01042 40002 002 41**

Garment weight: approx. 720 g

Regular sizes: 46-58 & 94-110

Secondary sizes: 44, 60-64, 24-29

royal

Wearing comfort: ★ ★

Standards:



IEC 61482-2
Class 1



EN ISO 11612
A1/B1/C1/F1



EN 1149-5



NOMEX® Comfort

NOMEX® Comfort is characterised by extraordinarily high flame proofing properties, combined with antistatic properties and a very good protection against electric arcs. Thanks to the low material weight of 260 g/m², the fabric also offers high mobility even in dangerous and uncomfortable workplaces. Fibre-inherent flame-retardant.

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

DuPont™
NOMEX®

1 | TROUSERS

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.

Part number: **01042 20003 006 41**

Garment weight: approx. 510 g

Regular sizes: 46–58 & 94–110

Secondary sizes: 44, 60–64, 24–29

 royal

Wearing comfort: ★ ★

Standards:



IEC 61482-2
Class 1



EN ISO 11612
A1/B1/C1/F1



EN 1149-5



2 | BIB AND BRACE TROUSERS

Single-coloured • stretch braces with clamp-on clips • straight-cut 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.

Part number: **01042 50002 012 41**

Garment weight: approx. 655 g

Regular sizes: 46–58 & 94–110

Secondary sizes: 44, 60–64, 24–29

 royal

Wearing comfort: ★ ★

Standards:



IEC 61482-2
Class 1



EN ISO 11612
A1/B1/C1/F1



EN 1149-5





3 | COVERALL

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.

Part number: **01042 30017 001 41**

Garment weight: approx. 990 g

Regular sizes: 46–58 & 94–110

Secondary sizes: 44, 60–64, 24–29

royal

Wearing comfort: ★ ★

Standards:



IEC 61482-2
Class 1



EN ISO 11612
A1/B1/C1/F1



EN 1149-5



4 | SHIRT

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.

Part number: **01046 60000 008 41**

Garment weight: approx. 365 g

Regular sizes: 39/40–47/48

Secondary sizes: 37/38, 49/50, 51/52

royal

Wearing comfort: ★ ★

Standards:



EN ISO 11612
A1/B1/C1/F1



EN 1149-5



Optimised humidity transport thanks
to Hydrophil equipment

INOTEC® Arc & Energy

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

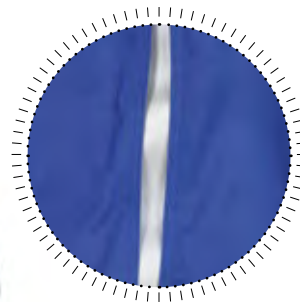
MATERIAL: NOMEX® Comfort // 98 % ARAMIDE, 2 % CARBON ·

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

2-PLY: FABRIC WEIGHT: + approx. 180 g/m² · **FIELDS OF APPLICATION:** Plant engineering and construction, energy suppliers, electric installation, public services, electricians



Sleeve hem with hook & loop fastener



Vertical movement pleat with integrated flame-retardant 3M™ Scotchlite™ reflective film No. 8940, suitable for industrial laundry

1 | JACKET, 1-PLY AND 2-PLY

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 • no Hi-Vis protective clothing acc. to EN ISO 20471 • wristband adjustable via hook&loop fastener • standard pictograms as direct embroidery on front.

Part number 1-ply: **01042 10105 014 2034**

Garment weight: approx. 780 g

Part number 2-ply: **01042 10105 015 2034**

Garment weight: approx. 940 g

Regular sizes: 46–58 & 94–110

Secondary sizes: 44, 60–64, 24–29

royal/marine

Wearing comfort: ★ ★

Standards 1-ply:



IEC 61482-2
Class 1



EN ISO 11612
A1/B1/C1/F1



EN 1149-5

Standards 2-ply:

IEC 61482-2
Class 2*

* front and sleeves

EN ISO 11612
A1/B1/C1/F1

EN 1149-5

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





2 | TROUSERS, 1-PLY AND 2-PLY

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.

Part number 1-ply: **01042 20060 006 2034**

Garment weight: approx. 650 g

Part number 2-ply: **01042 20060 007 2034**

Garment weight: approx. 765 g

Regular sizes: 46–58 & 94–110

Secondary sizes: 44, 60–64, 24–29

royal/marine

Wearing comfort: ★ ★

Standards 1-ply:



IEC 61482-2
Class 1



EN ISO 11612
A1/B1/C1/F1



EN 1149-5

Standards 2-ply:

IEC 61482-2
Class 2*

EN ISO 11612
A1/B1/C1/F1

EN 1149-5

* front trousers



2 and 3 |
Hip pockets with flaps
and hook&loop fasteners



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

3 | BIB AND BRACE TROUSERS, 1-PLY AND 2-PLY

Two-coloured • fix-lock stretch braces • high-cut kidney protection • 1 outer bib pocket with flap, FR reflective piping and hook&loop fastener • no Hi-Vis protective clothing acc. to EN ISO 20471 • 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.

Part number 1-ply: **01042 50041 034 2034**

Garment weight: approx. 800 g

Part number 2-ply: **01042 50041 035 2034**

Garment weight: approx. 920 g

Regular sizes: 46–58 & 94–110

Secondary sizes: 44, 60–64, 24–29

royal/marine

Wearing comfort: ★ ★

Standards 1-ply:



IEC 61482-2
Class 1



EN ISO 11612
A1/B1/C1/F1



EN 1149-5

Standards 2-ply:

IEC 61482-2
Class 2*

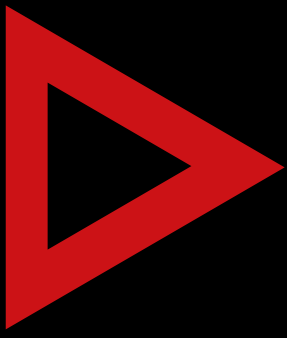
EN ISO 11612
A1/B1/C1/F1

EN 1149-5

* front trousers

2 and 3 |
Flame-retardant 3M™
Scotchlite™ reflective
stripes No. 8940, suitable
for industrial laundry





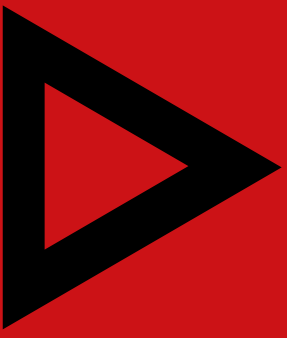
IF SOMETHING'S FIRED UP, IT'S YOU. FOR YOUR JOB.

Some people are so passionate about their job that they would literally go through fire for it.

All the more important, then, that their clothes don't catch fire. Our Heat, Flame & Splashes protective equipment offers the highest level of safety by protecting you not only from general heat but also from direct contact with flames and sparks. It also offers a level of comfort that allows you to always take pleasure in your job.

HEAT,
FLAME &
SPLASHES





MATERIAL AND PRODUCT HIGHLIGHT

THANKS TO OUR INNOVATIVE
CUTTING TECHNOLOGY AND
HIGH-QUALITY WORKMANSHIP
IN EVERY LAST DETAIL,
OUR MODELS OFFER MAXIMUM SAFETY
FOR WELDING WORK.

SAFETY FIRST

ALL OUTSIDE POCKETS
ARE ELABORATELY DESIGNED –
AND, FOR EXAMPLE,
COVERED WITH FLAPS
THAT CAN BE CLOSED
AND ARE SEWN IN POSITION
SO THAT WELDING SPLASHES
FALLING DOWN
CAN EASILY DRIP OFF.

HEAT,
FLAME &
SPLASHES



HABETEX[®] organic

Our new HABETEX[®] 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 combination for many HB product lines.

MATERIAL: HABETEX[®] organic // 54% MODACRYLIC, 44% COTTON (organic), 2% CARBON ·

MATERIAL WEIGHT: approx. 180 g/m² ·

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

HABETEX[®]



Ergonomic pre-formed sleeves



1 | SHIRT


Single-coloured • tailored for comfort fit • ergonomic pre-formed sleeves • band collar with covered snap fastener • closure band with snap fasteners covered on both sides • breast pockets with flaps and covered snap fasteners • wristband with covered snap fasteners • FR leasing label • embroidered standard pictograms on right cuff.


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

Garment weight: approx. 440 g

Regular sizes: 39/40–47/48

Secondary sizes: 37/38, 49/50, 51/52

 **45** navy

 **52** medium grey

Wearing comfort: ★ ★ ★

Standards:



IEC 61482-2
APC 1



EN ISO 11612
A1+A2/B1/C1/F1



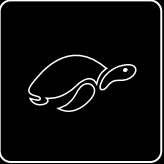
EN 1149-5



1 | This shirt has been produced using organic cotton. Ecologic criteria are defined on a high level for the cultivation of organic cotton. For example, the use of chemical pesticides and fertilizers like they are used in conventional cotton farming is not allowed. Also it is not allowed to genetically modify organic cotton plants.



HEAT,
FLAME &
SPLASHES



Band collar with covered snap fastener



Embroidered standard pictograms



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

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.

MATERIAL: PROBAN® // 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



1 | JACKET

Single-coloured • turn-down collar • closure band with snap fasteners on both sides • 1 front 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.

Part number: **01025 10046 000 53**
 Garment weight: approx. 615 g
 Fabric weight: approx. 320 g/m²
 ■ medium grey



EN ISO 11611
Class 1 A1



EN ISO 11612
A1/B1/C1

Part number: **01096 10046 000 41**
 Garment weight: approx. 790 g
 Fabric weight: approx. 380 g/m²
 ■ royal



EN ISO 11611
Class 2 A1



EN ISO 11612
A1/B1/C1/E2/F1

Part number: **01095 10046 000 52**
 Garment weight: approx. 895 g
 Fabric weight: approx. 470 g/m²
 ■ medium grey



EN ISO 11611
Class 2 A1



EN ISO 11612
A1/B1/C1/E3/F1

Regular sizes: 46–58 & 94–110
 Secondary sizes: 44, 60–64, 24–29
 Wearing comfort: ★

HEAT,
FLAME &
SPLASHES



2 | TROUSERS

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 with flap – each reinforced.

Part number: **01025 20084 003 53**

Garment weight: approx. 620 g

Fabric weight: approx. 320 g/m²

■ medium grey



EN ISO 11611
Class 1 A1



EN ISO 11612
A1/B1/C1

Part number: **01096 20084 003 41**

Garment weight: approx. 770 g

Fabric weight: approx. 380 g/m²

■ royal



EN ISO 11611
Class 2 A1



EN ISO 11612
A1/B1/C1/E2/F1

Part number: **01095 20084 003 52**

Garment weight: approx. 905 g

Fabric weight: approx. 470 g/m²

■ medium grey



EN ISO 11611
Class 2 A1



EN ISO 11612
A1/B1/C1/E3/F1

Regular sizes: 46–58 & 94–110

Secondary sizes: 44, 60–64, 24–29

Wearing comfort: ★



3 | BIB AND BRACE TROUSERS

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 with flap – each reinforced.

Part number: **01025 50062 001 53**

Garment weight: approx. 745 g

Fabric weight: approx. 320 g/m²

■ medium grey



EN ISO 11611
Class 1 A1



EN ISO 11612
A1/B1/C1

Part number: **01096 50062 001 41**

Garment weight: approx. 960 g

Fabric weight: approx. 380 g/m²

■ royal



EN ISO 11611
Class 2 A1



EN ISO 11612
A1/B1/C1/E2/F1

Part number: **01095 50062 001 52**

Garment weight: approx. 1,105 g

Fabric weight: approx. 470 g/m²

■ medium grey



EN ISO 11611
Class 2 A1



EN ISO 11612
A1/B1/C1/E3/F1

Regular sizes: 46–58 & 94–110

Secondary sizes: 44, 60–64, 24–29

Wearing comfort: ★



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.

MATERIAL: SECAN® Plus // 100 % COTTON

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



1 | JACKET

Single-coloured • turn-down collar • closure band with snap fasteners covered on both sides • 1 front pocket on the left with flap and covered snap fastener • 2 side pockets with flap (Blue: with piping) and covered inner buttons • 1 inner front pocket on the right • sleeve hem with inward-covered snap fasteners • standards pictograms as direct embroidery on the front.

Part number: **01018 10048 000 41**

Garment weight: approx. 725 g

Fabric weight: approx. 330 g/m²

royal



EN ISO 11611
Class 1 A1+A2



EN ISO 11612
A1+A2/B1/C1/
E2/F1

Part number: **01249 10204 000 52**

Garment weight: approx. 810 g

Fabric weight: approx. 395 g/m²

medium grey



EN ISO 11611
Class 2 A1+A2



EN ISO 11612
A1+A2/B1/C1/
E2/F1

Regular sizes: 46-58 & 94-110

Secondary sizes: 44, 60-64, 24-29

Wearing comfort: ★

Inner front pocket



Adjustable sleeve hem width

2 | TROUSERS

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.

Part number: **01018 20003 025 41**

Garment weight: approx. 715 g

Fabric weight: approx. 330 g/m²

royal



EN ISO 11611
Class 1 A1+A2



EN ISO 11612
A1+A2/B1/C1/
E2/F1

Part number: **01249 20003 025 52**

Garment weight: approx. 770 g

Fabric weight: approx. 395 g/m²

medium grey



EN ISO 11611
Class 2 A1+A2



EN ISO 11612
A1+A2/B1/C1/
E2/F1

Regular sizes: 46-58 & 94-110

Secondary sizes: 44, 60-64, 24-29

Wearing comfort: ★



Hip pocket with flap and covered snap fastener

HEAT,
FLAME &
SPLASHES



3 | COVERALL

Single-coloured • turn-down collar • closure band with covered snap fasteners on both sides • 1 front pocket on the left and 1 ruler pocket on the right – each with flap and covered snap fastener, 1 inner front pocket on the right and 2 side pockets with piping and integrated pass-through – each with flap and covered snap fastener • sleeve hem width adjustable with inward-covered snap fasteners.

Part number: **01018 30014 007 41**

Garment weight: approx. 1,285 g

Fabric weight: approx. 330 g/m²

■ royal



EN ISO 11611
Class 1 A1+A2



EN ISO 11612
A1+A2/B1/C1/
E2/F1

Part number: **01249 30014 007 52**

Garment weight: approx. 1,475 g

Fabric weight: approx. 395 g/m²

■ medium grey



EN ISO 11611
Class 2 A1+A2



EN ISO 11612
A1+A2/B1/C1/
E2/F1

Regular sizes: 46–58 & 94–110

Secondary sizes: 44, 60–64, 24–29

Wearing comfort: ★



3 and 4 |
Side pocket
(Coverall: with
pass-through)

4 | BIB AND BRACE TROUSERS

Single-coloured • stretch braces with clamp-on clips • straight kidney protection • 1 inner bib pocket with snap fastener • 2 side seam pockets with covered snap fastener • 1 ruler pocket on the right with flap and covered snap fastener • 1 side access on the left and fly – each with buttons. (for medium grey version: inner bib pocket is replaced by 1 outer bib pocket with flap and covered snap fastener).

Part number: **01018 50002 006 41**

Garment weight: approx. 760 g

Fabric weight: approx. 330 g/m²

■ royal



EN ISO 11611
Class 1 A1+A2



EN ISO 11612
A1+A2/B1/C1/
E2/F1

Part number: **01249 50002 050 52**

Garment weight: approx. 880 g

Fabric weight: approx. 395 g/m²

■ medium grey



EN ISO 11611
Class 2 A1+A2



EN ISO 11612
A1+A2/B1/C1/
E2/F1

Regular sizes: 46–58 & 94–110

Secondary sizes: 44, 60–64, 24–29

Wearing comfort: ★



3 and 4 |
Ruler
pocket

SECAN® Securo

The medium-heavy and robust welder protection fabric provides antistatic properties and is perfectly suited to protect against explosions. In addition to its flame retardancy up to 50 industrial launderings, SECAN® Securo offers reliable protection against liquid iron splashes (E3).

MATERIAL: SECAN® Securo // 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



1 | JACKET

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 fasteners • standards pictograms as direct embroidery on the front.

Part number: **01248 10048 001 52**

Garment weight: approx. 870 g

Regular sizes: 46–58 & 94–110

Secondary sizes: 44, 60–64, 24–29

■ medium grey

Wearing comfort: ★

Standards:



EN ISO 11611
Class 2 A1+A2



EN ISO 11612
A1+A2/B1/C1/
E3/F1



EN 1149-5

Adjustable sleeve hem

Standards pictograms as direct embroidery

HEAT,
FLAME &
SPLASHES



2 | TROUSERS

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.

Part number: **01248 20003 026 52**

Garment weight: approx. 810 g

Regular sizes: 46–58 & 94–110

Secondary sizes: 44, 60–64, 24–29

■ medium grey

Wearing comfort: ★

Standards:



EN ISO 11611
Class 2 A1+A2



EN ISO 11612
A1+A2/B1/C1/
E3/F1



EN 1149-5



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

3 | BIB AND BRACE TROUSERS

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.

Part number: **01248 50002 049 52**

Garment weight: approx. 950 g

Regular sizes: 46–58 & 94–110

Secondary sizes: 44, 60–64, 24–29

■ medium grey

Wearing comfort: ★

Standards:



EN ISO 11611
Class 2 A1+A2



EN ISO 11612
A1+A2/B1/C1/
E3/F1



EN 1149-5



SECAN® Securo

The heavy and robust welder protection fabric provides antistatic properties plus electric Arc Flash protection. It is perfectly suited to protect against explosions. In addition to its flame retardancy up to 50 industrial launderings, SECAN® Securo offers reliable protection against liquid iron splashes (E3). Manufactured with reflective stripes on yellow background.

MATERIAL: SECAN® Securo // 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



3M™ Scotchlite™ reflective stripes on yellow background



Yellow background in roof tile design

High wearing comfort by roughened inner surface



1 | JACKET

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

Part number: **01085 10007 017 3011**

Garment weight: approx. 1,170 g

Regular sizes: 46–58 & 94–110

Secondary sizes: 44, 60–64, 24–29

medium grey/orange/yellow

Wearing comfort: ★

Standards:



EN ISO 11612
A1+A2/B1/C1/
E3/F1



EN ISO 11611
Class 2 A1+A2



EN 1149-5



IEC 61482-2
Class 1

Sleeve hem width adjustable via snap fastener



2 | TROUSERS

Two-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 • flame-retardant reflective stripes on the legs, suitable for industrial laundry and, with yellow background and manufactured in roof tile design • no Hi-Vis protective clothing according to EN ISO 20471.

Part number: **01085 20009 009 2068**

Garment weight: approx. 920 g

Regular sizes: 46–58 & 94–110

Secondary sizes: 44, 60–64, 24–29

■ ■ medium grey/yellow

Wearing comfort: ★

Standards:



EN ISO 11612
A1+A2/B1/C1/
E3/F1



EN ISO 11611
Class 2 A1+A2



EN 1149-5



IEC 61482-2
Class 1



2 and 3 | 3M™ Scotchlite™ FR reflective stripes No. 8935, suitable for industrial laundry, with yellow background in roof tile design

3 | BIB AND BRACE TROUSERS

Two-coloured • fix-lock stretch braces with clips • added straight kidney protection • bib with yellow piping • 2 side accesses and fly, each with buttons • 2 side seam pockets with covered snap fastener • 1 outer bib pocket, 1 ruler pocket on the right and 1 hip 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 and manufactured in roof tile design • no Hi-Vis protective clothing according to EN ISO 20471.

Part number: **01085 50006 011 2068**

Garment weight: approx. 1,200 g

Regular sizes: 46–58 & 94–110

Secondary sizes: 44, 60–64, 24–29

■ ■ medium grey/yellow

Wearing comfort: ★

Standards:



EN ISO 11612
A1+A2/B1/C1/
E3/F1



EN ISO 11611
Class 2 A1+A2



EN 1149-5



IEC 61482-2
Class 1



SECAN® Plus & KEVLAR®

Reliable at extreme loads: The particularly wear-resistant and highly temperature-resistant KEVLAR® fabric offers maximum safety for welding during extreme load and work subject to the highest heat protection requirements, and SECAN® ensures high wearing comfort for applications with less strain. The compound reasonably combines the benefits of both fabrics.

COMPOSITE FABRIC: SECAN® PLUS // 100 % COTTON KEVLAR® // 100 % ARAMIDE .

FABRIC WEIGHT: approx. 410 g/m² + approx. 220 g/m² (KEVLAR®) · **FIELDS OF APPLICATION:** Metal works, steel working industry, welding companies, foundries, plant construction, heat exposed workplaces



Front and sleeves with KEVLAR®

Front pocket with flap and covered snap fasteners



Sleeve hem width with snap fasteners covered on the inside

2 side pockets with flap and covered snap fasteners

1 | JACKET

Two-coloured • front part and front sleeve with KEVLAR® • turn-down 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 fasteners • 1 inner front pocket on the right • pockets and flaps made of KEVLAR® • standard pictograms as direct embroidery on the front.

Part number: **01019 10003 009 2095**

Garment weight: approx. 1,000 g

Regular sizes: 46–58 & 94–110

Secondary sizes: 44, 60–64, 24–29

■ ■ medium grey/yellow

Wearing comfort: ★

Standards:



EN ISO 11611
Class 2 A1+A2



EN ISO 11612
A1+A2/B1/C1/
E2/F1

HEAT,
FLAME &
SPLASHES



2 | TROUSERS

Two-coloured • front trousers completely with KEVLAR®, back trousers with 30 cm KEVLAR® starting at leg hem • added waistband with covered buttoning • covered fly with zip • 2 slant pockets • 1 hip pocket on the right with flap and covered snap fastener • 1 ruler pocket on the right.

Part number: **01019 20006 002 2095**

Garment weight: approx. 955 g

Regular sizes: 46-58 & 94-110

Secondary sizes: 44, 60-64, 24-29

■ ■ medium grey/yellow

Wearing comfort: ★

Standards:



EN ISO 11611
Class 2 A1+A2



EN ISO 11612
A1+A2/B1/C1/
E2/F1

2 and 3 |
Front trousers completely
with KEVLAR®, back trousers
30 cm KEVLAR®
starting at leg hem



3 | BIB AND BRACE TROUSERS

Two-coloured • front trousers, complete with KEVLAR®, back trousers with 30 cm KEVLAR® starting at leg hem • bib completely made of KEVLAR® • stretch braces with clamp-on clips • straight kidney protection • 2 side accesses and fly – each with buttons • 1 inner bib pocket with snap fastener • 2 slant pockets • 1 hip pocket on the right with flap and covered snap fastener • 1 ruler pocket on the right.

Part number: **01019 50011 000 2095**

Garment weight: approx. 1,055 g

Regular sizes: 46-58 & 94-110

Secondary sizes: 44, 60-64, 24-29

■ ■ medium grey/yellow

Wearing comfort: ★

Standards:



EN ISO 11611
Class 2 A1+A2



EN ISO 11612
A1+A2/B1/C1/
E2/F1



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.

MATERIAL: HB-4welders® 2.0 // 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-4welders®



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

Highly stressed areas are manufactured with double layers

Band collar with covered snap fastener



1 | BLOUSON

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

Part number: **01237 10125 001 2205**

Garment weight: approx. 1,175 g

Regular sizes: 46-58 & 94-110

Secondary sizes: 44, 60-64, 24-29

navy/medium grey

Wearing comfort: ★ ★ ★

Standards:



EN ISO 11611
Class 2 A1+A2



EN ISO 11612
A1+A2/B1/C1/
E3/F1



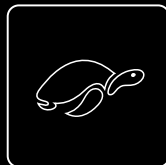
EN 1149-5



IEC 61482-2
APC 1



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



2 | TROUSERS

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) and 1 bellow pocket on the left (+ mobile phone pocket inside) – each with flap and covered snap fastener • knee pockets with adjustable hook&loop fastener.

Part number: **01237 20060 034 + COLOUR NO.**

Garment weight approx. 970 g

Regular sizes: 46–58 & 94–110

Secondary sizes: 44, 60–64, 24–29

■ **458** navy

■ **52** medium grey

Wearing comfort: ★ ★ ★

Standards:



EN ISO 11611
Class 2 A1+A2



EN ISO 11612
A1+A2/B1/C1/
E3/F1



EN 1149-5



IEC 61482-2
APC 1



2 and 3 |
Ruler pocket with
additional pen pocket

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

3 | BIB AND BRACE TROUSERS

Single-coloured • seamed with contrast colour off-White • fix lock stretch braces • straight kidney protection • two-side access • 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 inside) – each with flap and covered snap fastener • knee pockets with adjustable covered hook&loop fastener.

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

Garment weight: approx. 1,130 g

Regular sizes: 46–58 & 94–110

Secondary sizes: 44, 60–64, 24–29

■ **458** navy

■ **52** medium grey

Wearing comfort: ★ ★ ★

Standards:



EN ISO 11611
Class 2 A1+A2



EN ISO 11612
A1+A2/B1/C1/
E3/F1



EN 1149-5



IEC 61482-2
APC 1



Handy fix-lock
braces

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.

MATERIAL: HABETEX® powerful // 50 % VISCOSE FR · 30 % WOOL · 20 % POLYAMIDE ·

FABRIC WEIGHT: approx. 365 g/m² · **FIELDS OF APPLICATION:** Aluminium working industry, foundries, metalworks, heat exposed workplaces




1 | JACKET

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

Part number: **01180 1H001 000 45**

Garment weight: approx. 838 g

Regular sizes: 46–58, 94–110

Secondary sizes: 44, 60–64, 24–29

■ navy

Wearing comfort: ★ ★

Standards:



EN ISO 11611
Class 1 A1



EN ISO 11612
A1/B1/C1/D3/
E3/F1

2 | TROUSERS

Single-coloured • 2 slant pockets • covered front closure with snap fasteners • right-side ruler pocket • right-side back pocket • manufactured in roof tile design.

Part number: **01180 2H000 001 45**

Garment weight: approx. 791 g

Regular sizes: 46–58, 94–110

Secondary sizes: 44, 60–64, 24–29

■ navy

Wearing comfort: ★ ★

Standards:



EN ISO 11611
Class 1 A1



EN ISO 11612
A1/B1/C1/D3/
E3/F1

HEAT,
FLAME &
SPLASHES



Size-adjustable
hip width



3 | BIB AND BRACE TROUSERS

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.

Part number: **01180 5H000 000 45**

Garment weight: approx. 963 g

Regular sizes: 46–58, 94–110

Secondary sizes: 44, 60–64, 24–29

■ navy

Wearing comfort: ★ ★

Standards:



EN ISO 11611
Class 1 A1



EN ISO 11612
A1/B1/C1/D3/
E3/F1



4 | FOUNDRY SHIRT

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

Part number: **01180 6H002 000 45**

Garment weight: approx. 647 g

Regular sizes: 46–58

Secondary sizes: 44, 60–64

■ navy

Wearing comfort: ★ ★

Standards:



EN ISO 11611
Class 1 A1



EN ISO 11612
A1/B1/C1/D3/
E3/F1

HB-FluidMetal Pro

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.

MATERIAL: HABETEX® fusion 340 // 50 % COTTON, 39 % MODACRYLIC, 10 % VISCOSE, 1 % CARBON ·

MATERIAL: HABETEX® fusion 430 // 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

HABETEX®



1 | JACKET

Two-coloured • stand-up collar with covered snap fastener • 2 breast pockets with flap • 2 side pockets • 1 pocket inside • covered front closure with snap fasteners • FR neck label • flame-retardant reflective stripes, suitable for industrial laundry • no Hi-Vis protective clothing according to EN ISO 20471 • standard pictograms as FR direct embroidery at the front • manufactured in roof tile design.

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

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

Regular sizes: 46–58, 94–110 · Secondary sizes: 44, 60–64, 24–29

2043 navy/medium grey
2070 medium grey/pure orange

Wearing comfort: ★ ★ ★

Standards 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

2 | TROUSERS

Two-coloured • 2 side seam pockets • slit detail with spiral zip fastener • 2 back pockets, 1 pocket for folding rule right and 1 bellows pocket left – each with flap and covered snap fasteners • knee pocket with adjustable hook&loop fastener • flame-retardant and industrially washable reflective stripes • no Hi-Vis protective clothing according to EN ISO 20471 • manufactured in roof tile design.

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

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

Regular sizes: 46–58, 94–110 · Secondary sizes: 44, 60–64, 24–29

2043 navy/medium grey
2070 medium grey/pure orange

Wearing comfort: ★ ★ ★

Standards 340 g/m²:



EN ISO 11611
Class 1 A1+A2



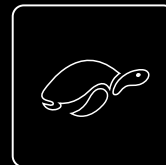
EN ISO 11612
A1+A2/B1/C1/
D2/E2/F1



EN 1149-5



IEC 61482-2
Class 1



1 to 4 |
Ergonomic cut for more freedom
of movement

1 to 4 |
Flame-retardant
reflective stripes for
industrial laundry



Stand-up collar



Standard pictograms
as FR direct embroidery


3 | BIB AND BRACE TROUSERS


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 pocket with adjustable hook&loop fastener • flame-retardant reflective stripes, suitable for industrial laundry • no Hi-Vis protective clothing according to EN ISO 20471 • manufactured in roof tile design.

Part number: **01221 50013 000 + COLOUR NO.** (340 g/m²)
Garment weight: approx. 1,030 g

Part number: **01218 50013 000 + COLOUR NO.** (430 g/m²)
Garment weight: approx. 1,300 g

Regular sizes: 46–58, 94–110 · Secondary sizes: 44, 60–64, 24–29

 **2043** navy/medium grey

 **2070** medium grey/pure orange

Wearing comfort: ★ ★ ★

Standards 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 | FOUNDRY SHIRT

Single-coloured • stand-up collar • front closure with covered snap fasteners on both sides • breast pocket left (with flap) and sleeve (with gusset and cuff) with covered snap fasteners • back with side folds for freedom of movement • manufactured in roof tile design.

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

Regular sizes: 30/40–47/48 · Secondary sizes: 37/38, 49/50, 51/52

 **45** navy

 **52** medium grey

Wearing comfort: ★ ★ ★

Standards 340 g/m²:



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

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-retardent 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.

MATERIAL: VINEX® // 85 % VINYLAL, 15 % MODAL ·

FABRIC WEIGHT: approx. 390 g/m² · approx. 285 g/m² (SHIRT) ·

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



High band collar
with covered
hook&loop
fastener



Large inner
pocket

Manufactured
in roof tile design

1 | BLOUSON

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 • sleeve hem width adjustable via inwards covered snap fasteners.

Part number: **01058 10015 005 48**

Garment weight: approx. 960 g

Regular sizes: 46–58 & 94–110

Secondary sizes: 44, 60–64, 24–29

 dark blue

Wearing comfort: ★ ★

Standards:



EN ISO 11612
A1+A2/B1/C1/
D3/E3/F1



IEC 61482-2
APC 1

2 | TROUSERS


Single-coloured • added waistband with zip fly • 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.

Part number: **01058 20013 003 48**

Garment weight: approx. 1,005 g

Regular sizes: 46–58 & 94–110

Secondary sizes: 44, 60–64, 24–29

 dark blue

Wearing comfort: ★ ★

Standards:



EN ISO 11612
A1+A2/B1/C1/
D3/E3/F1



IEC 61482-2
APC 1

HEAT,
FLAME &
SPLASHES



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



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

3 | BIB AND BRACE TROUSERS

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 zip fly • trouser leg manufactured in roof tile design.

Part number: **01058 50012 003 48**

Garment weight: approx. 1,130 g

Regular sizes: 46–58 & 94–110

Secondary sizes: 44, 60–64, 24–29

■ dark blue

Wearing comfort: ★ ★

Standards:



EN ISO 11612
A1+A2/B1/C1/
D3/E3/F1



IEC 61482-2
APC 1

4 | SHIRT

Single-coloured • stand-up collar with flap and covered hook&loop fastener • front closure with covered snap fasteners • breast pocket with flap and covered stud fastener • sleeves with gusset and cuffs and with covered snap fasteners • FR leasing neck label.

Part number: **01057 60002 004 48**

Garment weight: approx. 540 g

Regular sizes: 39/40–47/48

Secondary sizes: 37/38, 49/50, 51/52

■ dark blue

Wearing comfort: ★ ★

Standards:



EN ISO 11612
A1+A2/B1/C1/
D1/E1/F1

Consisting of 40 % aramide, Titan can withstand high mechanical loads. A further advantage of this flame and splash protection clothing is the low material weight: at just 245 g/m², the Titan fabric is extremely light. This low weight allows the wearer to move around comfortably regardless of what they are doing.

MATERIAL: HABETEX® safe // 60 % VISCOSE FR - 40 % ARAMIDE · **FABRIC WEIGHT:** approx. 245 g/m² ·
FIELDS OF APPLICATION: Foundries, steelworks, metalworking industry




Front closure band with snap fasteners and covered on both sides

1 | JACKET

Single-coloured • turn-down collar • front closure band with snap fasteners and covered on both sides • front pocket on the left • side pocket on the right with flap.

Part number: **01175 1H017 000 45**

Garment weight: approx. 521 g

Regular sizes: 46-58, 94-110

Secondary sizes: 44, 60-64, 24-29

■ navy

Wearing comfort: ★ ★

Standards:



EN ISO 11611
Class 1 A1



EN ISO 11612
A1/B1/C1/E1

2 | TROUSERS

Single-coloured • 2 side seam pockets • zip fly with covered button closure • 1 hip pocket on the right • 1 ruler pocket on the right.

Part number: **01175 2H005 000 45**

Garment weight: approx. 530 g

Regular sizes: 46-58, 94-110

Secondary sizes: 44, 60-64, 24-29

■ navy

Wearing comfort: ★ ★

Standards:



EN ISO 11611
Class 1 A1



EN ISO 11612
A1/B1/C1/E1

HEAT,
FLAME &
SPLASHES



2 and 3 |
Ruler pocket
on the right



3 | BIB AND BRACE TROUSERS

Single-coloured • adjustable stretch braces • bib pocket with flap • 1 side access on the right with snap fastener and adjustable button closure • zip fly with covered button • 2 side seam pockets • 1 hip pocket on the right • 1 ruler pocket on the right.

Part number: **01175 5H003 000 45**

Garment weight: approx. 666 g

Regular sizes: 46–58, 94–110

Secondary sizes: 44, 60–64, 24–29

■ navy

Wearing comfort: ★ ★

Standards:



EN ISO 11611
Class 1 A1



EN ISO 11612
A1/B1/C1/E1

4 | FOUNDRY SHIRT

Single-coloured • stand-up collar with snap fastener • Polo closure band with covered snap fasteners.

Part number: **01175 6H002 001 45**

Garment weight: approx. 506 g

Regular sizes: 46–58

Secondary sizes: 44, 60–64

■ navy

Wearing comfort: ★ ★

Standards:



EN ISO 11611
Class 1 A1



EN ISO 11612
A1/B1/C1/E1

A classic in the energy sector: The fibre-inherent flame-retardant material with very high stability offers a very low surface resistance. It is made from 94 % NOMEX®, 5 % KEVLAR® and 1 % Bekinox fibre. The low fabric weight provides easy-fit and high wearing comfort. Another important material feature is its high abrasion resistance for a long life cycle.

MATERIAL: NOMEX® III // 99 % ARAMIDE, 1 % METAL · **FABRIC WEIGHT:** approx. 260 g/m² · SHIRT approx. 190 g/m² · **FIELDS OF APPLICATION:** Energy suppliers, public services, electricians

DuPont™
NOMEX®

1 | BLOUSON

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

Part number: **01040 10011 001 41**

Garment weight: approx. 540 g

Regular sizes: 46–58 & 94–110 · Secondary sizes: 44, 60–64, 24–29

 royal

Wearing comfort: ★ ★

Standards:



EN ISO 11612
A1/B1/C1/F1



EN 1149-5



2 | WORK JACKET

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 with flaps and 2 piped pockets with covered pocket mouths – each with covered snap fasteners • sleeve hem width adjustable via covered snap fasteners.

Part number: **01040 10003 001 41**

Garment weight: approx. 565 g

Regular sizes: 46–58 & 94–110 · Secondary sizes: 44, 60–64, 24–29

 royal

Wearing comfort: ★ ★

Standards:



EN ISO 11612
A1/B1/C1/F1



EN 1149-5



3 | SHIRT

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

Part number: **01038 60000 008 41**

Garment weight: approx. 380 g

Regular sizes: 39/40 – 47/48 · Secondary sizes: 37/38, 49/50, 51/52

 royal

Wearing comfort: ★ ★

Standards:



EN ISO 11612
A1/B1/C1/F1



EN 1149-5



HEAT,
FLAME &
SPLASHES



4 | COVERALL

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 with hem width adjustable via covered snap fastener.

Part number: **01040 30001 003 41**

Garment weight: approx. 945 g

Regular sizes: 46–58 & 94–110 · Secondary sizes: 44, 60–64, 24–29

royal

Wearing comfort: ★ ★

Standards:



EN ISO 11612
A1/B1/C1/F1



EN 1149-5



5 | TROUSERS

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

Part number: **01040 20003 006 41**

Garment weight: approx. 520 g

Regular sizes: 46–58 & 94–110 · Secondary sizes: 44, 60–64, 24–29

royal

Wearing comfort: ★ ★

Standards:



EN ISO 11612
A1/B1/C1/F1



EN 1149-5



6 | BIB AND BRACE TROUSERS

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

Part number: **01040 50002 009 41**

Garment weight: approx. 605 g

Regular sizes: 46–58 & 94–110 · Secondary sizes: 44, 60–64, 24–29

royal

Wearing comfort: ★ ★

Standards:



EN ISO 11612
A1/B1/C1/F1



EN 1149-5



HB-Cement Pro

Thanks to its high Limiting Oxygen Index (LOI value), the collection may be worn in working areas where non-combustibility is an absolute must. Aramide and Polyacrylic ensure that as little heat as possible is transferred to the body of the wearer and that the material can withstand extremely high loads. The strong fabric is robust and non-slip; it is not too heavy and yet provides excellent thermal insulation.

MATERIAL: HABETEX® blend FR // 70 % POLYACRYLIC · 30 % ARAMIDE ·

FABRIC WEIGHT: approx. 300 g/m² · **FIELDS OF APPLICATION:** Heat and flame exposed workplaces

HABETEX®



1 | JACKET


Single-coloured • turn-down collar (to wear open or closed, with covered snap fasteners to fix hood) • front closure band with snap fasteners plus hook&loop and covered on both sides • inner front pocket on the left • side pocket on the right • sleeve with covered snap fasteners.

Part number: **01162 1H004 000 38**

Garment weight: approx. 686 g

Regular sizes: 46-58 & 94-110

Secondary sizes: 44, 60-64, 24-29

 green olive

Wearing comfort: ★

Standards:



EN ISO 11612
A1/B1/C1/E1



Front closure with snap fastener plus hook&loop prevents the raw meal from penetrating through the closure band

HEAT,
FLAME &
SPLASHES



With snap fasteners to fix hood

2 | HOOD

Single-coloured • 3 snap fasteners to fix the hood at jacket collar • front with snap fastener to close below chin • fits with jacket.

Part number: **01162 7H008 000 38**

Garment weight: approx. 149 g

One size

■ green olive

Wearing comfort: ★

Standards: certification only in combination with jacket HB-Cement Pro

Added kidney protection



3 | BIB AND BRACE TROUSERS

Single-coloured • adjustable stretch braces • added kidney protection • 2 side accesses with gusset and covered snap fastener • slit with covered buttoning • 1 hip pocket on the right.

Part number: **01162 5H001 000 38**

Garment weight: approx. 629 g

Regular sizes: 46–58 & 94–110

Secondary sizes: 44, 60–64, 24–29

■ green olive

Wearing comfort: ★

Standards:

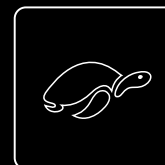


EN ISO 11612
A1/B1/C1/E1

▶ TEMPEX®-TREME HEAT

For works in high-temperature environments, we offer aluminised heat protection clothing from head to toe in five different materials, including two new, 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.

FOUNDRY COAT AND
PROTECTIVE HOOD
MADE FROM AW-1/Y WITH
POLYCARBONATE HEAT
SHIELD AND 5-FINGER GLOVE
MADE FROM KF-3/Z.



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.

| | HEAD, HAND AND FOOT PROTECTION | | | | |
|-----------------------|--|---|--|--|--|
| Material name | CK-12/Z | AW-1/Y | KF-3/Z | KF-3/ZF | KF-4/Z |
| Part number | 12014 | 12008 | 12003 | 12006 | 12011 |
| Material | 70 % preox, 30 % para-aramide | 100% aramide (70% recycled meta-aramide, 30 % para-aramide) | 100% para-aramide | 100% para-aramide | 49 % para-aramide, 51% glass |
| Material weight | approx. 360 g/m ² | approx. 420 g/m ² | approx. 475 g/m ² | approx. 480 g/m ² | approx. 690 g/m ² |
| Carrier material | Twill weave | Knitted fabric with roughened nap | Herringbone twill | Herringbone twill | Herringbone twill |
| Aluminisation | High-vacuum metallisation | PES film aluminised on both sides | High-vacuum metallisation | 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/F1 | EN ISO 11612 A1/B1/C3/D3/E3/F1 |
| Protection properties | <ul style="list-style-type: none"> • High protection against radiant heat • Very good protection from liquid metal 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 • Very good protection from liquid metal spatters • Very high mechanical strength | <ul style="list-style-type: none"> • High protection against radiant 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

TEMPEX®-TREME HEAT

We offer our foundry coat and the heat protection jacket in the robust and resistant material KF-3/Z and with various designs. Choose between hook & loop and quick release fasteners as well as different coat and jacket lengths.

1 | FOUNDRY COAT

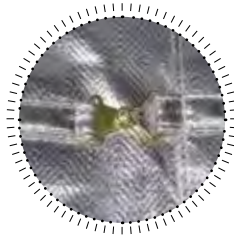
1 and 2 | Lined stand-up collar with flame-retardant cotton lining



2 | HEAT PROTECTION JACKET



1 and 2 | Inner hook & loop fastener, alternatively quick release fastener



1 | FOUNDRY COAT

Collar with flame-retardant cotton lining • front with continuous internal hook & loop or quick release fastener • all seams with FR thread • lengths: approx. 130/140 cm.

The model variant in length 130 cm and with a hook & loop fastener is available from stock.
Part number: **12003 41030 000 15 (KF-3/Z)**
Garment weight: approx. 1,520 g
Regular sizes: 46/48–58/60
Secondary sizes: 42/44 & 62/64
■ silver

Standards: **KF-3/Z**



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

2 | HEAT PROTECTION JACKET

Collar with flame-retardant cotton lining • front with continuous internal hook & loop or quick release fastener • all seams with FR thread • lengths: approx. 80/90/100 cm.

The model variant in length 80 cm and with hook & loop fastener is available from stock.
Part number: **12003 11080 000 15 (KF-3/Z)**
Regular sizes: 46/48–58/60
Secondary sizes: 42/44 & 62/64
■ silver

Standards: **KF-3/Z**

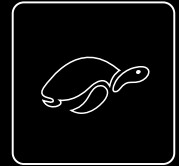


EN ISO 11612
A1/B1/C3/
D3/E3/F1

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 226/227**.

TEMPEX® - TREME HEAT COMFORT



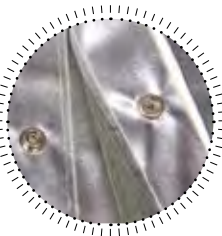
In the COMFORT range, we offer coats jacket in the materials CK-12/Z and AW-1/Y. Choose between hook & loop and covered snap fastener and different lengths. Features are ergonomically shaped sleeves, adjustable sleeve width and a slit at the back of the foundry coat.

1 | FOUNDRY COAT COMFORT

1 and 2 | Lined stand-up collar with flame-retardant cotton lining



1 and 2 | Inner hook & loop fastener, or alternatively covered snap fastening



Open slit at the back for greater freedom of movement

2 | HEAT PROTECTION JACKET COMFORT

1 and 2 | Ergonomic shaped sleeves for more freedom of movement



1 and 2 | Sleeve width adjustable via snap fastener inside

1 | FOUNDRY COAT COMFORT

Ergonomically shaped sleeves • collar with flame-retardant cotton lining • front with continuous internal hook & loop or covered snap fastening • sleeve width adjustable via snap fastener inside • slit at the back for more walking comfort • all seams with FR thread • lengths: approx. 110/120/130/140 cm.

The model variants in length 130 cm and with a hook & loop fastener are available from stock in the following materials.

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

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

Regular sizes: 46/48-58/60
Secondary sizes: 42/44 & 62/64
■ silver

Standards: **CK-12/Z** EN ISO 11612 A1/B1/C3/D3/E3/F1

AW-1/Y EN ISO 11612 A1/B1/C4/D3/E3/F2

2 | HEAT PROTECTION JACKET COMFORT

Ergonomically shaped sleeves • collar with flame-retardant cotton lining • front with continuous internal hook & loop or covered snap fastening • sleeve width adjustable via snap fastener inside • all seams with FR thread • lengths: approx. 80/90/100 cm.

The model variant in length 80 cm and with a hook & loop fastener is available from stock in the following material:

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

Garment weight: approx. 805 g
Regular sizes: 46/48-58/60
Secondary sizes: 42/44 & 62/64

■ silver

Standards: **AW-1/Y** EN ISO 11612 A1/B1/C4/D3/E3/F2

TEMPEX®-TREME HEAT COMFORT Plus

The COMFORT Plus range includes the most comfortable features: In addition to the standard underarm ventilation, we also offer optional additional back ventilation and, for the foundry coat, an additional choice between a slit at the back and, more comfortable, a covered pleat for the best possible freedom of movement including optimum protection even when walking.

1 | FOUNDRY COAT COMFORT Plus



2 | HEAT PROTECTION JACKET COMFORT Plus



1 | FOUNDRY COAT COMFORT Plus

Ergonomic shaped sleeves • collar with flame-retardant cotton lining • front with continuous internal hook & loop or covered snap fastening • sleeve width adjustable via snap fastener inside • with underarm ventilation • optional: back ventilation • option: slit at the back or closed pleat for greater walking comfort • all seams with FR thread • lengths: approx. 110/120/130/140 cm.

The model variants in length 130 cm, with a hook & loop fastener, underarm and back ventilation, and a slit at the back are available from stock in the following materials:

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

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

Regular sizes: 46/48-58/60 • Secondary sizes: 42/44 & 62/64
■ silver

Standards: **CK-12/Z**



Standards: **AW-1/Y**



2 | HEAT PROTECTION JACKET COMFORT Plus

Ergonomic shaped sleeves • collar with flame-retardant cotton lining • front with continuous internal hook & loop or covered snap fastening • sleeve width adjustable via snap fastener inside • underarm ventilation • optional: back ventilation • all seams with FR thread • lengths: approx. 80/90/100 cm.

The model variant in length 80 cm and with a hook & loop fastener, with underarm and back ventilation, is available from stock in the following material:

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

Regular sizes: 46/48-58/60
Secondary sizes: 42/44 & 62/64
■ silver

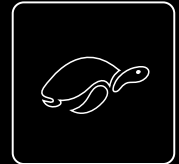
Standards: **CK-12/Z**



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 226/227.

TEMPEX® - TREME HEAT



The heat protection trousers and apron with sleeves are also available in three materials as well as with additional COMFORT features. For improved functionality, the COMFORT apron with sleeves offers an adjustable hook & loop fastener, ergonomic sleeves. Like the trousers it is available in two new high-performance fabrics for a maximum of wearing comfort.

1 | HEAT PROTECTION TROUSERS

2 | HEAT PROTECTION TROUSERS COMFORT

3 | APRON WITH SLEEVES

4 | APRON WITH SLEEVES COMFORT



2 | Side hook & loop fastener from crotch to seam

1 and 2 | All seams with FR thread



3 and 4 | Neckline with FR molleton



4 | Ergonomic sleeves for more freedom of movement

1 | HEAT PROTECTION TROUSERS

Sewn-in adjustable braces • covered zip fly with snap fastener • all seams with FR thread.

Part number: **12003 2H003 000 15 (KF-3/Z)**

Garment weight: approx. 1,131 g

■ silver

Standards:



2 | HEAT PROTECTION TROUSERS COMFORT

Features as 1 | plus additional features:

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.

Also available in the following COMFORT materials for greater comfort:

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

Garment weight: approx. 780 g

Standards:



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

Garment weight: approx. 920 g



■ silver

Sizes item 1 | to 4 |

Regular sizes: 46/48 – 58/60 • Secondary sizes: 42/44 & 62/64

3 | APRON WITH SLEEVES

Shoulder protection • neckline with FR molleton • upper back protection closable via snap fastener • brass chain as side fastener • chains and hook fasteners underlaid with leather • opening on the back with covered snap fastener • all seams with FR thread • length approx. 130 cm.

Part number: **12003 7H010 000 15 (KF-3/Z)**

Garment weight: approx. 1,125 g

■ silver

Standards:



4 | APRON WITH SLEEVES COMFORT

Features as 3 | plus additional features:

Ergonomic sleeves • back protection with hook & loop fastener • opening on the back with covered hook & loop fastener • hook & loop fastener on the back • sleeve width adjustable via snap fastener inside • all seams with FR thread • lengths: approx. 110/130 cm.

Available in COMFORT materials AW-1/Y and CK-12/Z for greater wearing comfort.

Available from stock in length 130 cm.

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

Garment weight: approx. 1,005 g

■ silver

Standards:



TEMPEX®-TREME HEAT



Our bib and half aprons are also available in three materials and two versions. In addition to the version with a tie strap, the COMFORT versions offer an adjustable hook & loop fastener, making them quicker to put on and take off. The new fabrics provide a high level of comfort and protection.



1 | BIB APRON

Neck strap • tie straps for closing • FR seams • approx. 130 cm long.

Part number: **12003 7H011 000 15 (KF-3/Z)**
 Garment weight: approx. 642 g
 One size
 ■ silver

Standards:

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

3 | HALF APRON BASIC

Tie straps for closing • all seams with FR thread • length: approx. 100 cm.

Part number: **12003 7H012 000 15 (KF-3/Z)**
 Garment weight: approx. 511 g
 One size
 ■ silver

Standards:

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

2 | BIB APRON COMFORT

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

Available in COMFORT materials
 AW-1/Y and CK-12/Z for greater comfort.
 Available from stock in length 130 cm.
 Part number: **12008 71131 000 15 (AW-1/Y)**
 Garment weight: approx. 520 g
 One size
 ■ silver

Standards:

 EN ISO 11612
 A1/B1/C4/D3/E3/F2

4 | HALF APRON COMFORT

Hook & loop fastener for closing • all seams with FR thread • lengths: approx. 80/100 cm.

Available in two COMFORT materials
 AW-1/Y and CK-12/Z for greater comfort via our 21 TO WEAR® high-speed delivery service.

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 226/227.

TEMPEX® - TREME HEAT FACE AND HEAD PROTECTION

HEAT,
FLAME &
SPLASHES



The head and face are extremely vulnerable areas of the body and therefore more susceptible to injury caused by heat and liquid metal splashes. This is where we offer superior safety solutions with a comprehensive range of heat protection accessories to compliment your personal protective clothing.

1 | PROTECTIVE HOOD WITH SHOULDER AND CHEST PROTECTION BASIC

Shaped shoulder and chest area • elastic band in back • protective glass frame made of aluminum • storage loop • all seams with FR thread • side height approx. 50 cm from storage loop across shoulder • compatible with Phenol (Part 90021 7Z006 011 68) and Poly helmets (Part 90022 7Z006 012 10) • compatible with heat protection glass size 100 x 220 mm.

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

Garment weight: approx. 508 g



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



2 | PROTECTIVE HOOD WITH SHOULDER AND CHEST PROTECTION COMFORT

Features as 1 |.

Available in COMFORT materials AW-1/Y and CK-12/Z for greater comfort via our 21 TO WEAR® high-speed service. For more information, see page 226.

3 | PROTECTIVE HOOD

Elastic band in back • protective glass frame made from aluminium • storage loop • all seams with FR thread • length approx. 15 cm (back side) • compatible with Phenol (Part 90021 7Z006 011 68) and Poly helmets (Part 90022 7Z006 012 10) • compatible with heat protection glass in size 100 x 220 mm.

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

Garment weight: approx. 297 g

Standards:



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



4 | PROTECTIVE HOOD COMFORT

Features as 3 |.

Available in COMFORT materials AW-1/Y and CK-12/Z for greater comfort via our 21 TO WEAR® high-speed service.

5 | PROTECTIVE HOOD WITH SHOULDER AND CHEST PROTECTION COMFORT Plus

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 (Part 90021 7Z006 011 68) and Poly helmets (Part 90022 7Z006 012 10) • compatible with heat protection glass in size 100 x 220 mm.

Available in both COMFORT materials AW-1/Y and CK-12/Z. Available from stock:

Part No.: **12008 71001 002 15 (AW-1/Y)**

Garment weight: approx. 415 g

Standards:



EN ISO 11612
A1/B1/C4/D3/E3/F2



Sizes items 1 | to 5 |

One size

Colour items 1 | to 5 |

■ silver

TEMPEX®-TREME HEAT FACE AND HEAD PROTECTION

21 TO WEAR

The face and head are particularly delicate areas and are more sensitive to temperature than other parts of the body. To protect the face and head against heat and splashes of molten metal, we recommend using suitable high-quality heat protection accessories in addition to the appropriate protective clothing.

1 | HELMET COVER

Shaped neck protection • snap fasteners on both sides for face guard attachment • all seams with FR thread • compatible with Phenol (item 90021 7Z006 011 68) and Poly helmets (item 90022 7Z006 012 10) • compatible with face guard (item 12011 7H006 002 15).

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

Garment weight: approx. 184 g

One size

■ silver

Standards:



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

2 | HELMET COVER COMFORT

Features as 1 |.

Available in COMFORT materials AW-1/Y and CK-12/Z for greater comfort.



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 226/227**.

3 | FACE GUARD

Protective glass frame made from aluminium • bending wire to adjust to head shape • snap fasteners on both sides for helmet cover attachment • all seams with FR thread • compatible with helmet cover (item 12003 7H009 000 15). • compatible with heat protection glass in size 100 x 220 mm.

Part number: **12011 7H006 002 15 (KF-4/Z)**

Garment weight: approx. 283 g

One size

■ silver

Standards:



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



4 | PROTECTIVE HOOD NOMEX® III

Round eye holes • 10 cm extra neck length • seamless front area.

Part number: **01205 7Z005 001 11**

Material: **Aramide**

One size

■ raw white





5 | PROTECTIVE HELMET PHENOL

Straight shell • manufactured from phenolic resin fabric • 6-point webbed harness with genuine leather sweatband, foam cushion band • head circumference adjustable with lock ratchet • antistatic • for use in hot zones (liquid metal splashes) • for temperatures up to -30 °C • fits with all head protection hoods • fits with flip-up mounting (item 90002 7Z019 004 15).

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

One size (53/61 cm)

 gold

Standards:



EN 397



6 | PROTECTIVE HELMET POLY

Straight shell with rain gutter • manufactured from fibre glass-reinforced polycarbonate • 6-point webbed harness with genuine leather sweatband, foam cushion band • head circumference adjustable with lock ratchet • for use in hot zones (liquid metal splashes) and electrical insulation (1000 V) • for temperatures up to -30 °C • fits with all head protection hoods • fits with flip-up mounting (item 90002 7Z019 004 15).

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

One size (53/61 cm)

 white

Standards:



EN 397

EN 50365



7 | FLIP-UP MOUNTING

Side locking hinges • coil tension spring • fits with helmets Phenol (item 90021 7Z006 011 68) and Poly (item 90022 7Z006 012 10) • fits with all all-around visors sized 500 x 250 mm.

Part number: **90002 7Z019 004 15**

One size

 silver



8 | BOCHUM GOGGLES

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.

Part number: **90001 7Z024 000 15**

Shape: 300 x 180 mm

 silver



9 | BOCHUM GOGGLES WITHOUT GLASS HOLDER

Aluminum edging • blackened wire mesh inside • fits with flip-up mounting (item 90002 7Z019 004 15).

Part number: **90001 7Z024 001 15**

Shape: 300 x 180 mm

 silver



TEMPEX®-TREME HEAT FACE AND HEAD PROTECTION

The face and head are particularly delicate areas and are more sensitive to temperature than other parts of the body. To protect the face and head against heat and splashes of molten metal, we recommend using suitable high-quality heat protection accessories in addition to the appropriate protective clothing.

1 | PROTECTIVE WIRE SCREEN

Crimped edge • blackened wire mesh inside • fits with flip-up mounting (item 90002 7Z019 004 15).

Part number: **90001 7Z025 001 15**

Shape: 500 x 300 mm

■ silver



2 | FURNACE VIEWING GLASS, CURVED, LAMINATED SAFETY GLASS WITH COLOURED FILTER

Curved laminated safety glass • special blue-coloured filter • colour-correcting • protection from radiant heat • protection from blinding light • protection from short wave IR radiation • protection level 4-7 A- • fits with all HB head protection hoods • fits with Face Guard (item 12011 7H006 002 15).

Part number: **90005 7Z023 004 48**

Shape: 100 x 220 mm

■ dark blue



3 | HEAT PROTECTION GLASS, CURVED, LAMINATED SAFETY GLASS

Gold-plated • protection from radiant heat • infrared protection level 4-5 • fits with all HB head protection hoods • fits with Face Guard (item 12011 7H006 002 15).

Part number: **90006 7Z023 000 68**

Shape: 100 x 220 mm

■ gold

Standards:



EN 166 EN 171



4 | HEAT PROTECTION SCREEN, POLYCARBONATE

Green flexible polycarbonate plate • gold plated • protection from melting metal and hot solid • excellent optical quality (suitable for permanent use) • protection from radiant heat (infrared protection level 4-5) • fits with all HB protection hoods • fits with Face Guard (item 12011 7H006 002 15).

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

Shape: 100 x 220 mm

■ gold

Standards:



EN 166 EN 171



HEAT,
FLAME &
SPLASHES



5 | ALL-AROUND VISOR, CLEAR

Clear, flexible polycarbonate plate • rounded shape • protection from UV radiation • protection from melting metal and hot solid • fits with flip-up mounting (item 90002 7Z019 004 15).

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

Shape: 500 x 250 mm

neutral

Standards:



EN 166



6 | ALL-AROUND VISOR, GOLD METALLISED

Clear, flexible polycarbonate plate • gold-plated • rounded shape • protection from radiant heat (infrared protection level 4-4) • protection from UV radiation • protection from melting metal and hot solid • excellent optical quality (suitable for permanent use) • fits with flip-up mounting (item 90002 7Z019 004 15).

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

Shape: 500 x 250 mm

gold

Standards:



EN 166

EN 171



7 | ALL-AROUND VISOR, GREEN, GOLD METALLISED

Green-tinted, flexible polycarbonate plate • gold-plated • rounded shape • protection from radiant heat (infrared protection level 4-5) • protection from UV radiation • protection from melting metal and hot solid • excellent optical quality (suitable for permanent use) • fits with flip-up mounting (item 90002 7Z019 004 15).

Part number: **90004 7Z010 001 33**

Shape: 500 x 250 mm

green

Standards:



EN 166

EN 171



8 | FURNACE VIEWING GLASS WITH COLOURED FILTER

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- • fits with Bochum Goggles (item 90001 7Z024 000 15).

Part number: **90005 7Z023 001 48**

Shape: 120 x 60 mm

dark blue



TEMPEX®-TREME HEAT HAND PROTECTION

Our heat-resistant and flame-retardant heat protection gloves are made from high-quality materials. Various material combinations for the back of the hand, cuff, inside and lining enable a wide range of specific possible uses in the relevant areas of application.

CONTACT HEAT UP TO 100 °C

1 | 5-FINGER GLOVES


Back of hand and cuff made of KF-3/ZF • inside made of KEVLAR® mesh • pulse re-inforced with heat-resistant chrome-tanned split leather • lined with flame-retardant impregnated molleton.

Part number: **12006 7H000 008 2269**

Material: **aluminised Aramide, Aramide** · Length: approx. 430 mm

Size: 11

Sale unit: 1 pair

 silver/yellow

Standards:



EN ISO 407
4132XX



2 | 5-FINGER GLOVES

Back of hand and cuff made of KF-3/ZF • inside made of heat-resistant chrome-tanned split leather • reinforced wrist made of heat-resistant chrome-tanned split leather • lined with flame-retardant impregnated molleton • thumb patch.

Part number: **12006 7H000 000 2268**


Material: **aluminised Aramide, Leather** · Length: approx. 430 mm

Part number: **12006 7H000 003 2268**

Material: **aluminised Aramide, Leather** · Length: approx. 330 mm

Size: 11

Sale unit: 1 pair

 silver/brown

Standards:



EN ISO 407
4134X4



3 | 3-FINGER GLOVES

Back of hand and cuff made of KF-4/Z • entire inside made of heat-resistant chrome-tanned split leather • lined with flame-retardant impregnated molleton • piped cuffs and thumb seams.


Part number: **12011 7H001 002 2271**

Material: **aluminised Aramide/Glass, Leather**

Length: approx. 400 mm

Size: 11

Sale unit: 1 pair

 silver/stone grey

Standards:



EN ISO 407
4134X3



4 | 5-FINGER GLOVES FOR CONTACT HEAT

Fabric made of regenerated Para-Aramide • lined with flame-retardant impregnated molleton • thumb patch.

Part number: **01159 7H000 005 20**


Material: **Aramide** · Length: approx. 400 mm

Part number: **01159 7H000 006 20**

Material: **Aramide** · Length: approx. 330 mm

Size: 11

Sale unit: 1 pair

 yellow

Standards:



EN ISO 407
413XXX



HEAT,
FLAME &
SPLASHES



5 | MITTENS FOR CONTACT HEAT

Fabric made of regenerated Para-Aramide • lined with flame-retardant impregnated molleton • winged thumbs • ambidextrous.


Part number: **01159 7H002 007 20**

Material: **Aramide** · Length: approx. 290 mm

Part number: **01159 7H002 008 20**

Material: **Aramide** · Length: approx. 400 mm

Size: 11 · Sale unit: 1 pair

 yellow

Standards:



EN ISO 407
413XXX



6 | PULL-OVER GLOVES

Preox/KEVLAR®-fabric • winged thumbs • ambidextrous.

Part number: **01162 7H002 004 38**

Material: **Polyacryl/Aramide** · Length: approx. 310 mm

Size: 11 · Sale unit: 1 Paar

 green olive

Standards:



EN ISO 407
411XXX




7 | 5-FINGER WELDING GLOVES

Made of tanned, heat-resistant cowhide split leather • backs of hands lined as one piece • cut-in thumbs • sewn with FR thread.

Part number: **14004 7Z000 022 22**

Material: **Leather** · Length: approx. 330 mm

Size: 11 · Sale unit: 1 pair

 pure orange




8 | 3-FINGER LEATHER GLOVES

Hand made of heat-resistant sebatan leather with muslin as heat insulation • cuff made of chrome-tanned split leather • lined with flame-retardant impregnated nettle cloth • winged thumbs • thumb seams protected by piping • sewn with FR thread.

Part number: **14008 7Z001 002 66**

Material: **Leather** · Length: approx. 380 mm

Size: 11 · Sale unit: 1 pair

 white/brown




9 | 5-FINGER KNITTED GLOVES, COARSE

Made of KEVLAR®.

Part number: **01206 7Z000 023 20**

Material: **Aramide** · Length: approx. 290 mm

One size · Sale unit: 1 pair

 yellow



▶ TEMPEX® - TREME HEAT HAND PROTECTION

Our heat-resistant and flame-retardant heat protection gloves are made from high-quality materials. Thanks to the high-quality workmanship, they provide reliable protection against high temperatures as well as sparks, flames and splashes of molten metal.

CONTACT HEAT UP TO 250 °C

1 | MITTENS

Back of hand and cuff made of KF-4/Z • inside made of heat-resistant chromed-tanned split leather • lined with flame-retardant impregnated molleton • inside insulated with half-wool felt • thumb patch.

Part number: **12011 7H002 003 2271**

Material: **aluminised Aramide/Glass, Leather**

Length: approx. 400 mm

Size: 11

Sale unit: 1 pair

■ ■ silver/stone grey

Standards:



EN ISO 407
4234X3



CONTACT HEAT UP TO 350 °C

1 | 3-FINGER GLOVES

Back of hand and cuff made of KF-4/Z • inside made of KEVLAR® fabric KK4 • leather gadget between forefinger and middle finger • lined with flame-retardant impregnated molleton • inside insulated with half-wool felt • thumb patch.

Part number: **12011 7H001 001 2269**

Material: **aluminised Aramide, Aramide**

Length: approx. 400 mm

Size: 11

Sale unit: 1 pair

■ ■ silver/yellow

Standards:



EN ISO 407
4334X3



2 | MITTENS

Back of hand and cuff made of KF-4/Z • inside made of KEVLAR® fabric KK4 • lined with flame-retardant impregnated molleton • inside insulated with half-wool felt • thumb patch.

Part number: **12011 7H002 000 2269**

Material: **aluminised Aramide, Aramide**

Length: approx. 400 mm

Size: 11

Sale unit: 1 pair

■ ■ silver/yellow

Standards:



EN ISO 407
4334X3



HEAT,
FLAME &
SPLASHES



3 | GLOVES FOR CONTACT HEAT WITH ADDITIONAL INSULATION

Hand made of KEVLAR® loop pile • insulation made of cotton loop pile • short cuff made of KEVLAR® felt • lined with flame-retardant impregnated molleton • winged thumbs • ambidextrous.


Part number: **01169 7H002 009 2325**

Material: **Aramide**

Length: approx. 400 mm

Size: 11

Sale unit: 1 pair

 yellow/black

Standards:



EN ISO 407
432X00



4 | MITTENS FOR CONTACT HEAT

Hand made of Glass/KEVLAR®/PBI-fabric • cuff made of KEVLAR® fabric KK4 • lined with flame-retardant impregnated molleton • insulation made of quilted fiberglass matting and half-wool felt • winged thumbs • ambidextrous.


Part number: **01191 7H002 002 20**

Material: **Aramide, Glass, Polyimide**

Length: approx. 400 mm

Size: 11

Sale unit: 1 pair

 yellow

Standards:



EN ISO 407
434XXX



5 | CUFFS

Cuff made of KF-3/Z • elastic band on both ends.


Part number: **12003 7H003 000 15**

Material: **aluminised Aramide**

Length: approx. 430 mm

One size

Sale unit: 1 pair

 silver

Standards:



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



TEMPEX®-TREME HEAT FOOT PROTECTION


We provide appropriate footwear to go with your heat protection equipment. The foundry and welding shoe features impressive heat resistance down to the sole and high levels of flame resistance. Our overboot is made from the aluminised outer material KF-3/Z with 100 % aramide and offers excellent protection against contact heat and splashes of molten metal.

1 | FOUNDRY BOOTS

Contact heat-resistant up to 300 °C • feet made of aluminized full-grained cowhide leather • leg made of full-grained cowhide leather • nitrile rubber soles with heat-insulated substructure • leather insole • washable inlay sole • padded leg edging • soft leather insert in the calf area • assembly seams made of special NOMEX® thread • size-adjustable double snap fasteners closure • approx. 260 mm high.

Part number: **14003 7Z011 008 2276**

Sizes: 39-48 · Sale unit: 1 pair

 white/grey

Standards:



EN ISO 20345



Nitrile rubber soles with heat-insulated substructure

2 | GAITERS WITH HOOK & LOOP FASTENER

Made of KF-4/Z • fiber reinforcement in leg • flame-inhibiting hook&loop fastener • approx. 40 cm high.

Part number: **12011 7H004 002 15**

Material: **aluminised Aramide**

One size · Sale unit: 1 pair

 silver

Standards:



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



3 | GAITERS WITH SNAP FASTENERS FASTENER

Made of KF-4/Z • fiber reinforcement in leg • snap fasteners closures • approx. 40 cm high.

Part number: **12011 7H004 001 15**

Material: **aluminised Aramide**

One size · Sale unit: 1 pair

 silver

Standards:



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



4 | SPRING GAITERS, HIGH


Made of KF-4/Z • 2 covered, vertical springs in the legs • vamp with instep spring • approx. 35 cm high.

Part number: **12011 7H004 009 15**

Material: **aluminised Aramide**

Sizes: 1 (= up to size 43)

2 (= from size 44) · Sale unit: 1 pair

 silver

Standards:



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



UNDERWEAR FR ACCESSORIES FR

HEAT,
FLAME &
SPLASHES



Our flame retardant underwear, the robust belt made from certified FR material, and the comfortable and solid knee pads complement your heat protection equipment.

1 | UNDERSHIRT NOMEX® III

Single-coloured • round neckline • long-sleeve.

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

Material: **100 % Aramide**

Sizes: 5-8

■ raw white

Wearing comfort: ★

2 | UNDERTROUSERS NOMEX® III

Single-coloured • long • flyless.

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

Material: **100 % Aramide**

Sizes: 5-8

■ raw white

Wearing comfort: ★



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

3 | KNEE PADS

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).

Part number: **04033 76013 000 58**

Garment weight: approx. 70 g

Sizes: approx. 18 x 24 cm • Sale unit: 1 pair

■ anthracite

Fields of application: Activities that require kneeling, work exposed to heat

Domestic washing only, no tumbler.



4 | BELT FR

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

Part number: **01113 76012 000 46**

Garment weight: approx. 80 g

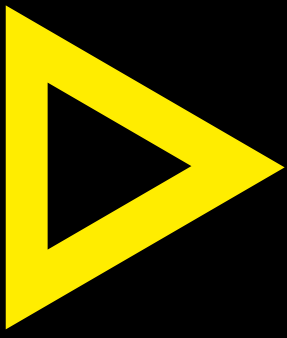
Sizes: Length 90 cm/110 cm/130 cm; Width 38 mm

■ black

Standards:



EN ISO 11612-A1
Material



ALL OF A SUDDEN, ALL

EYES

ARE ON

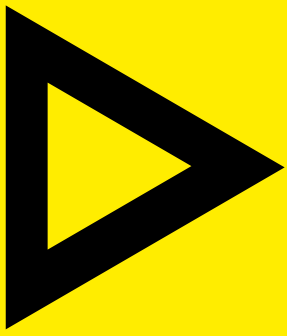
YOU.

Who says that only haute couture produces real eye-catchers? It is hard to overlook our HiVis protective clothing, even when visibility is extremely restricted. This is important, for example, when you have to work in difficult weather conditions. The comfortable fit and

optimum wearing comfort typical of HB are incorporated into all of the products as standard. A highlight is the Multi-Risk collection HI-VISION®, which perfectly combines functionality and aesthetics.

HIVIS &
WEATHER





MATERIAL AND PRODUCT HIGHLIGHT

FIRST-CLASS MATERIALS AND ELABORATE WORKMANSHIP
WITH WELDED SEAMS
ENSURE THAT OUR HAVIS & WEATHER PROTECTION CLOTHING
PROVIDES OPTIMUM PROTECTION
AGAINST MOISTURE AND IMMEDIATELY CATCHES
THE EYE, EVEN IN POOR VISIBILITY.

IN ALL WEATHERS!

A RESULT OF EXTENSIVE
TECHNICAL EXPERTISE AND COMPLIANCE WITH
THE HIGHEST QUALITY STANDARDS.

HIVIS &
WEATHER



▶ HB-MultiPro Fleece FR

Alongside protection against the cold, this warm under-layer also provides effective protection against flames, electric arcs and electrostatic discharge. It is the perfect complement for our HB-MultiPro FR® multi-functional parkas.



MATERIAL: 48 % MODACRYLIC, 32 % COTTON, 18 % POLYESTER, 2 % CARBON · **FABRIC WEIGHT:** approx. 360 g/m² · **FIELDS OF APPLICATION:** Combinable with Parka/Short Parka HB-MultiPro FR®, for better protection plus additional against the cold

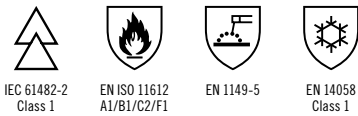
1 | FLEECE JACKET, 1-PLY AND 2-PLY

Single-coloured • combinable with Parka and Short 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 direct embroidery on the back of the collar.

Part number 1-ply (4 kA): **07015 1M016 000 48**
 Garment weight: approx. 991 g

Part number 2-ply (7 kA): **07015 1M016 007 48**
 Garment weight: approx. 1,200 g

Regular sizes: 46/48–58/60
 Secondary sizes: 42/44 & 62/64
 ■ dark blue
 Wearing comfort: ★ ★
 Standards 1-ply (4 kA):



Standards 2-ply (7 kA):
 IEC 61482-2 Class 2 EN ISO 11612 A1/B2/C2/F1 EN 1149-5 EN 14058 Class 1



Chest pocket with covered zip and hook&loop fastener

Mobile phone pocket on the right with flap and covered snap fastener



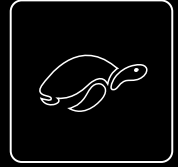
Combinable with Parka/Short Parka HB-MultiPro FR®, for better protection plus protection against the cold



Standard pictograms as FR embroidery



▶ Inner Fleece FR



The zippable inner fleece FR is a recommended cold protection for HB parkas. The soft and flame-retardant material is very comfortable and offers an efficient warming effect even in cold environments (up to -5 °C). For maximum comfort and protection, we have reinforced the collar with navy blue Aramide fabric on the inside.

MATERIAL: 48 % MODACRYLIC, 32 % COTTON, 18 % POLYESTER, 2 % CARBON ·

FABRIC WEIGHT: approx. 360 g/m² · **FIELDS OF APPLICATION:** In combination with parkas HI-VISION® and INOTEC® for cool environment; material certified according to EN ISO 11612 A1/B1/C1/F1

1 | INNER FLEECE FR

Two-coloured • high band collar • closure band with zip fastener for closing or zipping into parka • various buttons for fixation in parka • elastic wristband.

Part number: **07015 19095 000 2047**

Garment weight: approx. 700 g

Regular sizes: Unisex S–XL

Secondary sizes: Unisex XS, XXL, XXXL

■ ■ black/navy

Wearing comfort: ★ ★ ★

Standards:



EN 14058
Class 1

Optimised
fit



1 | Combinable with Parkas Hi-Vision® FR and INOTEC® from pages 114–115 and 118–121.

Fleece Jacket FR

Our HI-VISION® fleece jackets made of FR material offer efficient protection against wind, cold, heat, flame and Arc Flash. Yellow/Navy with excellent reflective properties. "pinViz" is reinforced with a very solid HI-VISION® sparks border: lots of reflective threads ("pin's") are running through it, considerably optimising the visibility ("Viz"), providing this jacket with an unexpected feature.

MATERIAL: 48 % MODACRYL, 32 % COTTON, 18 % POLYESTER, 2 % CARBON ·

FABRIC WEIGHT: approx. 360 g/m² · **FIELDS OF APPLICATION:** Plant responsible, network engineers, public services, energy suppliers, electricians



1 | FLEECE JACKET HI-VISION® FR


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.

Part number: **07015 19080 001 2007**

Garment weight: approx. 1,090 g

Regular sizes: Unisex S-XL

Secondary sizes: Unisex XS, XXL, XXXL

 fluorescent yellow/navy

Wearing comfort: ★ ★ ★

Standards:



EN ISO 20471
Class 2



EN 14058
Class 1



IEC 61482-2
APC 1



EN ISO 11612
A1/B1/C2/F1



EN 1149-5

3M™ Scotchlite™ reflective stripes No. 8935, suitable for industrial laundry



Reinforced with Hi-Vision®-sparks material

2 | FLEECE JACKET PINVIZ FR


Two-coloured, design with round shapes • high band collar with hook&loop fastener and standard pictograms as direct embroidery • closure bands with covered 2-way 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.

Part number: **07015 19082 005 2193**

Garment weight: approx. 975 g

Regular sizes: Unisex S-XL

Secondary sizes: Unisex XS, XXL, XXXL

 black/anthracite reflective

Wearing comfort: ★ ★ ★

Standards:



EN 14058
Class 1



IEC 61482-2
APC 1



EN ISO 11612
A1/B1/C2/F1



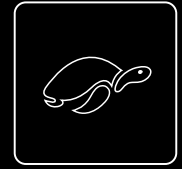
EN 1149-5



Elongated back

HI-VISION® FR

Our comfortable multi-risk softshell garments are lighter and more breathable than parkas, and warmer and more windproof than fleece. They provide very high functionality – protection against Arc Flash and excellent reflective properties included.



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



Honored Best Occupational PPE 2016.

3M™ Scotchlite™ reflective stripes No. 8935, suitable for industrial laundry



Soft inner fleece FR



Water repellent



Inner wind-blocker with knitted wristband

1 | SOFTSHELL JACKET

Two-coloured • raw white contrast stitching • high stand-up collar with hook&loop fastening and standards 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, suitable for industrial laundry.

Part number: **10003 19072 012 + COLOUR NO.**

Garment weight: approx. 1,375 g

Regular sizes: Unisex S–XL

Secondary sizes: Unisex XS, XXL, XXXL

2228 fluorescent orange-red/black blue

2143 fluorescent yellow/black blue

Wearing comfort: ★ ★

Standards:



EN ISO 20471
Class 2



IEC 61482-2
Class 2



EN ISO 11612
A1/B1/C2/F2



EN 1149-5



EN ISO 11611
Class 1 A1

INOTEC® Fire & Vis

These parkas combine a broad range of applications. A particular highlight is the elaborate roof tile manufacture: It allows the use in working areas with liquid metals as it makes liquid metal splashes easily drip off. Our warming inner fleece FR (see page 111) can be attached with a zipper, making this parka unbeatable when it is cold outside.

MATERIAL: HABETEX® protect, Fluorcarbon Finish // 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



Attached hood



High band collar with covered snap fasteners



1 | SHORT PARKA

Three-coloured • flame-retardant upper material with liner • sealed seams • high band collar with covered snap fasteners, integrated collar pocket, and attached hood suitable for wearing with or without helmet • hood's field of vision adjustable via cord, hood height adjustable via hook&loop fastener • covered 2-way zip fastener plus drip moulding with covered snap fasteners • 2 side pockets (bellows), each with flap and covered snap fastener • 1 inner Napoleon pocket on the left with zip fastener • waist adjustment and hem adjustment via drawstring • flame-retardant reflective stripes with luminous yellow background, suitable for industrial laundry • no Hi-Vis protective clothing according to EN ISO 20471 • wristbands with strap and hook&loop fastener.

Part number: **01072 19058 005 3001**

Garment weight: approx. 1,620 g

Regular sizes: Unisex S–XL

Secondary sizes: Unisex XS, XXL, XXXL

orange/dark grey/yellow

Wearing comfort: ★ ★

Standards:



EN 343
Class 3/3



IEC 61482-2
Class 2



EN ISO 11612
A1+A2/B1/C1/
E1/F1



EN ISO 11611
Class 1 A1+A2



EN 13034
Type 6



EN 1149-5



1 und 2 |
Combinable with
zippable Inner fleece
FR on page 111.



FR standard pictograms embroidered on the collar

Patchable reflective stripes
3M™ Scotchlite™
No. 8735

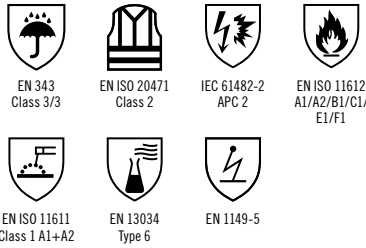


Optimised Fit

2 | PARKA

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 • 1 front pocket on the left, 1 mobile phone pocket 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 being patched and for industrial laundry • wristbands with strap and hook&loop fastener • FR standard pictograms on the collar.

Part number: **01072 19098 000 2112**
Garment weight: approx. 1,630 g
Regular sizes: Unisex S–XL
Secondary sizes: Unisex XS, XXL, XXXL
fluorescent yellow/navy
Wearing comfort: ★ ★
Standards:



3 | HOOD

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.

Part number: **01072 79004 000 45**
Garment weight: approx. 140 g
Regular sizes: Unisex S–XL
Secondary sizes: Unisex XS, XXL, XXXL
navy
Wearing comfort: ★ ★
Standards: Certification only in combination with parka above

For buttoning to band collar



HB-MultiPro FR®

HB-MultiPro FR® was specially developed for tasks involving a wide range of different risks and is certified according to seven different standards. Thanks to the integrated membrane, the material is wind-resistant and waterproof, breathable and hard-wearing. HB-MultiPro FR® has also been ergonomically optimised and is therefore suitable for different application areas.

MATERIAL: HABETEX® universal, Fluorcarbon Finish // 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



1 | PARKA AND SHORT PARKA

Two-coloured • flame-retardant upper material with liner • sealed seams • stand-up collar with covered button, to wear high-necked or open, buttons for hood attachment • 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 (page 110) • wristband adjustable via hook&loop • flame-retardant 3M™ Scotchlite™ reflective stripes No. 8940, suited for industrial laundry • standard pictograms as FR embroidery on left sleeve.

Part number: **01121 1M017 002 + COLOUR NO.**

Parka (waist additionally adjustable via drawstring)
 Garment weight: approx. 1,885 g

Part number: **01121 1M020 000 + COLOUR NO.**

Short Parka
 Garment weight: approx. 1,769 g

Regular sizes: 46/48–58/60

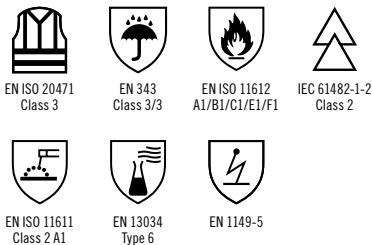
Secondary sizes: 42/44 & 62/64

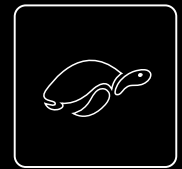
 2143 fluorescent yellow/dark blue

 2147 fluorescent orange/dark blue

Wearing comfort: ★ ★

Standards:





2 | BIB AND BRACE TROUSERS

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 folding rule 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 3M™ Scotchlite™ reflective stripes No. 8940, suited for industrial laundry • standard pictograms as FR embroidery on left leg.


Part number: **01121 5M004 000 + COLOUR NO.**

Garment weight: approx. 1,486 g

Regular sizes: 46/48–58/60

Secondary sizes: 42/44 & 62/64

 **2143** fluorescent yellow/dark blue

 **2147** fluorescent orange/dark blue

Wearing comfort: ★ ★

Standards:



EN ISO 20471
Class 2



EN 343
Class 3/3



EN ISO 11612
A1/B1/C1/E1/F1



IEC 61482-1-2
Class 2



EN ISO 11611
Class 2 A1



EN 13034
Type 6



EN 1149-5




3 | HOOD


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.

Part number: **01121 7M001 002 + COLOUR NO.**

Garment weight: approx. 161 g

Size: one size

 **17** fluorescent yellow

 **18** fluorescent orange

Wearing comfort: ★ ★

Standards: Certification only in combination with parka on the left



INOTEC® Fire & Rain

This weather protection parka combines fibre-inherent flame resistance with most high Arc Flash protection class 2 as well as antistatic properties. The NOMEX® Comfort fabric on the outside is very durable, sturdy and temperatureresistant. In combination with our warming inner fleece FR which can be attached via zipper (see page 111), it allows works even at very low temperatures.

MATERIAL: NOMEX® comfort, Fluorcarbon Finish // 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



Embroidered FR pictograms on the collar

1, 2 and 3 | High quality 3M™ Scotchlite™ reflective stripes No. 8935

1, 2 and 3 | Sealed seams

1 | PARKA

Two-coloured • FR 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 • FR reflective stripes and piping, suitable for industrial laundry • no Hi-Vis protective clothing according to EN ISO 20471 • wristbands adjustable via strap and hook&loop fastener • standards pictograms as direct FR embroidery on the collar.

Part number: **01043 19060 000 2027**

Garment weight: approx. 1,500 g

Regular sizes: Unisex S–XL

Secondary sizes: Unisex XS, XXL, XXXL

royal/navy

Wearing comfort: ★ ★

Standards:



EN 343
Class 3/3



IEC 61482-2
Class 2

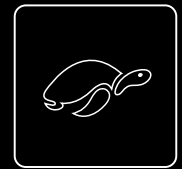


EN ISO 11612
A1/B1/C1/F1



EN 1149-5





2 | BIB AND BRACE TROUSERS


Two-coloured • FR 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, 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 • FR reflective stripes at waist and legs • reflective piping at bib and thigh pockets, suitable for industrial laundry • no Hi-Vis protective clothing according to EN ISO 20471.

Part number: **01043 59001 000 2027**

Garment weight: approx. 965 g

Regular sizes: Unisex S–XL

Secondary sizes: Unisex XS, XXL, XXXL

 royal/navy

Wearing comfort: ★ ★

Standards:



EN 343
Class 3/3



IEC 61482-2
Class 2



EN ISO 11612
A1/B1/C1/F1



EN 1149-5



Additional reflective piping at bib and thigh pockets

3 | HOOD

Single-coloured • FR upper material with liner • for buttoning to band collar • with added peak • field of vision and hood height adjustable via drawstring • adjustable in chinarea via hook&loop fastener • FR reflective stripe, suitable for industrial laundry.

Part number: **01043 79000 000 41**

Garment weight: approx. 140 g

Sizes: one size

 royal

Wearing comfort: ★ ★

Standards: Certification only in combination with parka on the left



For buttoning to band collar

HI-VISION® FR

Safety even under difficult conditions: This weather protection parka with best reflective properties is certified according to EN ISO 20471 class 3, and it additionally offers protection against heat, flame, Electric Arcs, electrostatic discharge, welding splatters and chemicals. Its multi-functional direct laminate is windproof and 100 % water-repellent. Worn with our inner fleece FR (page 111), it additionally provides a very good protection against cold.

MATERIAL: HABETEX® protect laminated, Fluorcarbon Finish // 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; suitable for energy providers/alternative energies, petrol chemistry, steelworks, electricians



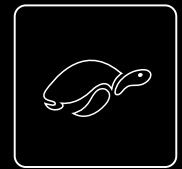
3M™ Scotchlite™ reflective stripes No. 8935, suitable for industrial laundry

EN Standard pictograms as FR direct embroidery

Elongated back


1 and 2 | 100 % water-repellent

Wristband adjustable via hook&loop fastener



1 | PARKA

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 • 3M™ flame-retardant reflective stripes, suitable for industrial laundry • standard pictograms as direct embroidery on the collar • worn together with our inner fleece FR on page 111, it achieves EN ISO 11612 B2 und C2.

Part number: **05019 19071 008 2112**
 Garment weight: approx. 1,665 g
 Regular sizes: Unisex S–XL
 Secondary sizes: Unisex XS, XXL, XXXL
 fluorescent yellow/navy
 Wearing comfort: ★ ★
 Standards:



2 | HOOD

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.

Part number: **05019 79006 001 2112**
 Garment weight: approx. 200 g
 Size: one size
 fluorescent yellow/navy
 Wearing comfort: ★ ★
 Standards: Certification only in combination with parka above



HI-VISION® FR

Light-weight, windproof and water-repellent multi-risk protection especially for the off-shore or traffic sector, where one needs safe all-round protection. Direct laminate certified according to latest High-Visibility EN Standard ISO 20471 with additional protection against chemicals, heat, flame and Electric Arcs, as well as antistatic properties. Ideal complement to our HI-VISION® parka pages 120/121.



MATERIAL: HABETEX® protect laminated, Fluorcarbon Finish // 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:** Energy suppliers (also Off-shore industry), petrol chemistry, alternative energy providers, public transport and construction works with additional danger of Arc Flash and flames



1 | BRACE TROUSERS

Two-coloured • FR 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.

Part number: **05019 29000 006 2112**

Garment weight: approx. 1,060 g

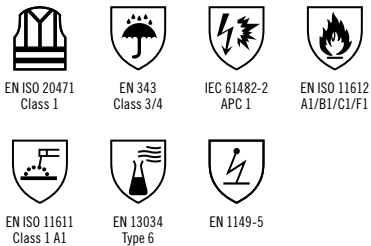
Regular sizes: Unisex S-XL

Secondary sizes: Unisex XS, XXL, XXXL

fluorescent yellow/navy

Wearing comfort: ★ ★

Standards:



Comfortable elastic band



Foot width adjustable with PCV-Zip thanks to additional material

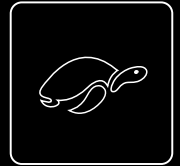


EN Standards pictograms as FR direct embroidery

3M™ Scotchlite™ reflective stripes No. 8935, suitable for industrial laundry

HI-VISION® FR

This reflective vest also offers good flame protection and can be worn on top of jackets and overalls certified for protection against heat and flames. As ready-to-wear clothing, it offers flexible reflective protection as a supplement to other protective clothing.



MATERIAL: HABETEX® protect //55 % MODACRYLIC, 43 % COTTON, 2 % CARBON ·

FABRIC WEIGHT: approx. 275 g/m² ·

FIELDS OF APPLICATION: Suited for wearers who require temporary reflective clothing in combination with flame protection in their work environment



3M™ Scotchlite™ reflective stripes No. 8940, suitable for industrial laundry



Hook & loop fastener

1 | VEST FR

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.

Part number: **01072 10129 001 2112**

Garment weight: approx. 435 g

Sizes: 1-4

fluorescent yellow/navy

Wearing comfort: ★ ★

Standards:



EN ISO 20471
Class 2



EN ISO 11612
A1+A2/B1/C1/F1
Partial body
protection



EN 1149-5

HI-VISION® Basic

Our fashionable reflective shirts with retro-reflective stripes attached in body language, combine efficient reflection and UV protection with stylish design and the highest wearing comfort. The intelligent piqué material – polyester on the outside and cotton on the inside – enables optimal transport of humidity and is therefore very comfortable to wear.

MATERIAL: HI-VISION® Piqué // 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®

1 | POLO SHIRT

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.

Part number: **04025 80009 002 + COLOUR NO.**

Garment weight: approx. 330 g

Regular sizes: Unisex S–XL

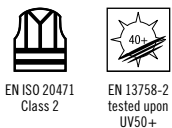
Secondary sizes: Unisex XS, XXL, XXXL

2161 fluorescent orange-red/hydron blue

2162 fluorescent yellow/hydron blue

Wearing comfort: ★ ★ ★

Standards:



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



2 | T-SHIRT

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.

Part number: **04025 80008 003 + COLOUR NO.**

Garment weight: approx. 310 g

Regular sizes: Unisex S–XL

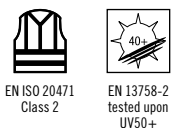
Secondary sizes: Unisex XS, XXL, XXXL

2161 fluorescent orange-red/hydron blue

2162 fluorescent yellow/hydron blue

Wearing comfort: ★ ★ ★

Standards:



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



▶ HI-VISION® Basic Fleece

HIVIS &
WEATHER



Our HI-VISION® Basic fleece jacket can be combined, following the layer principle, with the Hi-VISION® Basic jacket (page 127). If it is worn stand-alone it offers slight protection against cold during the transition seasons between autumn, winter and spring.

MATERIAL: 100 % POLYESTER · **FABRIC WEIGHT:** approx. 258 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®



Based on the layer principle this fleece jacket is combinable with our HI-VISION® Basic jacket page 127.



1 | FLEECE JACKET

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.

Part number: **07025 1M094 000 3360**

Garment weight: approx. 570 g

Regular sizes: 46/48–58/60

Secondary sizes: 42/44 & 62/64

■ ■ anthracite/stone grey/black

Wearing comfort: ★ ★

Front with zip

HI-VISION® Basic

This warning and weather protection collection has been designed according to the layer principle and is suitable for very changeable weather between seasons and in winter: With our jacket featuring a zip-in fleece, parka with detachable thermal jacket, softshell with soft fleece lining and bib and brace trousers, there is no longer any wrong weather, just the right clothing.

MATERIAL: PARKA WITH ANTISTATIC // 99% POLYESTER, 1% CARBON, Fluorcarbon Finish ·
FABRIC WEIGHT: approx. 150 g/m² · **MATERIAL: PARKA, JACKET + BIB & BRACE** // 100% POLYESTER,
 1% CARBON · **FABRIC WEIGHT:** approx. 195 g/m² · approx. 155 g/m² · **FIELDS OF APPLICATION:**
 Technical retailers, suppliers, disposers, works in the factory or public traffic area, car wash, logistic centres

HI-VISION®

1 | PARKA WITH ANTISTATIC

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 covered 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 snap fastener closures • inside pocket on left with hook and loop fastener • hem can be adjusted with drawstring • sleeve width can be adjusted with snap fastener • with reflective strips.


Part number: **05028 1M006 004 + COLOUR NO.**

Garment weight: approx. 1,445 g

Regular sizes: 46/48–58/60

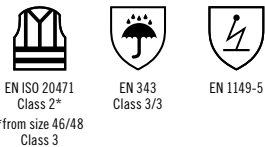
Secondary sizes: 42/44 & 62/64

 **2112** fluorescent yellow/navy

 **2165** fluorescent orange-red/navy

Wearing comfort: ★ ★

Standards:



2 | PARKA


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 covered 2-way zip • 2 chest pockets • 2 side pockets with flaps and hook and loop fasteners • inside chest pocket on left with hook and loop fastener • with repair opening • sleeve width can be adjusted with tab • with reflective strips.


Part number: **05029 1M090 001 + COLOUR NO.**

Garment weight: approx. 1,460 g

Regular sizes: 46/48–58/60

Secondary sizes: 42/44 & 62/64

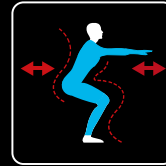
 **2112** fluorescent yellow/navy

 **2165** fluorescent orange-red/navy

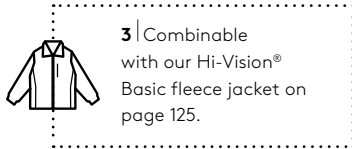
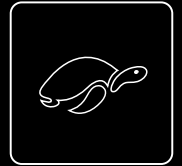
Wearing comfort: ★ ★

Standards:





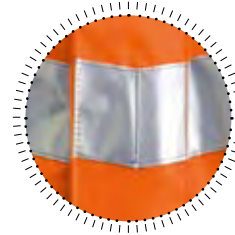
HIVIS & WEATHER



3 | Combinable with our Hi-Vision® Basic fleece jacket on page 125.

Reflective stripes on luminous orange for better visibility

Stand-up collar with built-in hood



3 | JACKET

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 covered • water-repellent zip • with mesh in back area • 2 chest pockets with flaps and hook and loop fasteners • 2 side pockets with hook and loop fasteners • water-repellent zip on side • 1 inside chest pocket on left with hook and loop fastener • waist and hem can be adjusted with drawstring • sleeve width can be adjusted with hook and loop fastener • with repair opening • with reflective strips in body language.

Part number: **01158 1M033 001 + COLOUR NO.**

Garment weight: approx. 1,220 g

Regular sizes: 46/48–58/60

Secondary sizes: 42/44 & 62/64

2257 fluorescent orange/dark navy

2007 fluorescent yellow/dark navy

2103 fluorescent red/black

Wearing comfort: ★ ★

Standards:



EN ISO 20471
Class 2*
*from size 46/48
Class 3



EN 343
Class 3/3

Available on request
in the colour combination
 fluorescent yellow/black

4 | BIB AND BRACE TROUSERS

Two-coloured • outer fabric constructed as Z-liner • with welded seams • dirt-prone 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 snap fastener closure • with reflective stripes on hip and legs.

Part number: **01158 5M006 000 2257**

Garment weight: approx. 765 g

Regular sizes: 46/48–58/60

Secondary sizes: 42/44 & 62/64

fluorescent orange/dark navy

Wearing comfort: ★ ★

Standards:



EN ISO 20471
Class 1



EN 343
Class 3/3

Leghem adjustable via
snap fastener



HB-StormBase®

This flexible weather protection collection won't leave you out in the cold. Bonded seams and reflective stripes provide protection against the wind and weather and poor visibility and the detachable thermal underclothing makes the HB-StormBase® just as suitable for between the seasons as for extreme and stormy weather.

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

High stand-up collar
with built-in hood



Removable
thermal jacket



1 | PARKA

Single-coloured and 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 covered 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 snap fastener closures • inside pocket on left with hook and loop fastener • hem can be adjusted with drawstring • sleeve width can be adjusted with snap fastener • with reflective stripes • no Hi-Vis protective clothing according to EN ISO 20471.

Part number two-coloured: **05028 1M006 001 2041**

 navy/royalblau

Part number single-coloured: **05028 1M006 003 45**

 navy

Garment weight: approx. 1,440 g

Regular sizes: 46/48–58/60

Secondary sizes: 42/44 & 62/64

Wearing comfort: ★ ★

Standards:



EN 343
Class 3/3



EN 1149-5



2 | BRACE TROUSERS

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

Part number: **05028 2M005 000 45**

Garment weight: approx. 1,060 g

Regular sizes: 46/48–58/60

Secondary sizes: 42/44 & 62/64

■ navy

Wearing comfort: ★ ★

Standards:



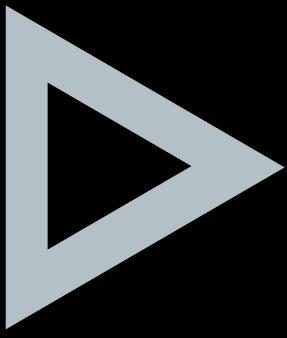
EN 343
Class 3/3



EN 1149-5

With removable
thermo trousers

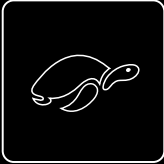


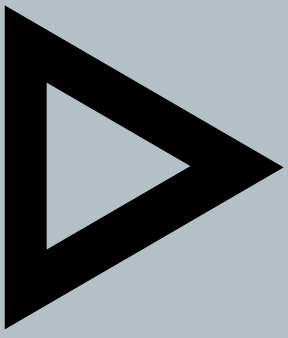


DON'T JUST PUT
ON CLOTHES -
PUT ON A
FEELING OF
SAFETY.

Working with chemicals can be dangerous. HB's special protective clothing prevents hazardous substances from harming the wearer. Our products are subjected to extensive testing to ensure that hazardous chemicals do not cause any damage to the body. This is so you can feel safe in the workplace.

CHEMICALS





MATERIAL AND PRODUCT HIGHLIGHT

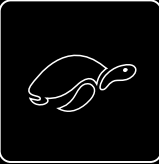
THE FLAT-FELLED SEAM, AS IT IS KNOWN, IS A VERY STABLE AND HARD-WEARING SEAM. WE USE IT IN PLACES THAT ARE HIGHLY STRESSED, ESPECIALLY ON THE INSIDE LEG SEAMS.

ATTENTION TO DETAIL

THANKS TO A METICULOUS MANUFACTURING PROCESS, THE CUT EDGES HAVE A PARTICULARLY NEAT FINISH. THE RESULT ARE PRODUCTS THAT ARE IMPRESSIVELY DURABLE, STRONG AND ULTIMATELY:

SAFE.

CHEMICALS



▶ HB-CHEMstandard

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

MATERIAL: HB-CHEMstandard // 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 %: 99.7, o-Xylene: 96.3, Butan-1-ol: 96.0, hydrochloric acid 36%: 99.5, Penetration index P (%): Sulphuric acid 30 %: 0.3, Sodium hydroxide solution 10 %: 0.0, o-Xylene: 3.5, Butan-1-ol: 0.7, hydrochloric acid 36 %: 0.0 · **FIELDS OF APPLICATION:** Chemical and petrochemical industry, steel industry, automotive industry, battery factories, laboratories and electroplating

HB-CHEM

1 | JACKET

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.

Part number: **02001 10003 006 56**

Garment weight: approx. 535 g

Regular sizes: 46–58 & 94–110

Secondary sizes: 44, 60–64, 24–29

■ iron grey

Wearing comfort: ★ ★

Standards:



EN 13034
Type 6



Side pockets with flaps and covered snap fasteners



2 | MEN'S COAT

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.

Part number: **02001 46001 000 56**

Garment weight: approx. 690 g

Regular sizes: 46–58 & 94–110

Secondary sizes: 44, 60–64, 24–29

■ iron grey

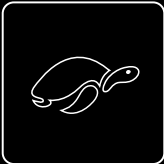
Wearing comfort: ★ ★

Standards:



EN 13034
Type 6





3 | SHIRT

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

Part number: **02001 60000 004 56**
 Garment weight: approx. 490 g
 Regular sizes: 39/40–47/48
 Secondary sizes: 37/38, 49/50, 51/52
 ■ iron grey
 Wearing comfort: ★ ★
 Standards:



4 | TROUSERS

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.

Part number: **02001 20003 014 56**
 Garment weight: approx. 535 g
 Regular sizes: 46–58 & 94–110
 Secondary sizes: 44, 60–64, 24–29
 ■ iron grey
 Wearing comfort: ★ ★
 Standards:



..... Ruler pocket

Stretch braces with clamp-on clips



5 | BIB AND BRACE TROUSERS

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

Part number: **02001 50002 007 56**
 Garment weight: approx. 665 g
 Regular sizes: 46–58 & 94–110
 Secondary sizes: 44, 60–64, 24–29
 ■ iron grey
 Wearing comfort: ★ ★
 Standards:



▶ HB-CHEMclassic

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.

MATERIAL: HB-CHEMclassic // 100 % POLYESTER, FC-EQUIPMENT · **FABRIC WEIGHT:** approx. 260 g/m² ·
REPELLENCY AND PENETRATION INDEXES: Repellency index A (%): Sulphuric acid 30 %: 99.3, Sodium hydroxide solution 10 %: 98.9, o-Xylene 21.7, Butan-1-ol: 64.8; Penetration index P (%): Sulphuric acid 30 %: 0.0, Sodium hydroxide solution 10 %: 0.1; o-Xylene 36.9, Butan-1-ol: 15.9 · **FIELDS OF APPLICATION:** Chemical industry, steel industry, automotive industry, battery factories, laboratories.

HB-CHEM



Wristbands with covered snap fasteners

1 | JACKET

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.

Part number: **02002 10003 006 57**

Garment weight: approx. 555 g

Regular sizes: 46–58 & 94–110

Secondary sizes: 44, 60–64, 24–29

■ mottled grey

Wearing comfort: ★ ★

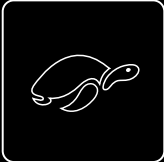
Standards:



EN 13034
Type 6

All pockets with flaps and covered snap fasteners





2 | TROUSERS


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

Part number: **02002 20003 003 57**

Garment weight: approx. 535 g

Regular sizes: 46-58 & 94-110

Secondary sizes: 44, 60-64, 24-29

 mottled grey

Wearing comfort: ★ ★

Standards:



EN 13034
Type 6



3 | BIB AND BRACE TROUSERS


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, adjustable via buttons.

Art.-Nr.: **02002 50002 007 57**

Garment weight: approx. 650 g

Regular sizes: 46-58 & 94-110

Secondary sizes: 44, 60-64, 24-29

 mottled grey

Wearing comfort: ★ ★

Standards:



EN 13034
Type 6



HB-CHEMcomfort Antistatic

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

MATERIAL: HB-CHEMcomfort Antistatic // 99 % POLYESTER, 1 % CARBON, FC-EQUIPMENT

FABRIC WEIGHT: approx. 240 g/m² · **REPELLENCY AND PENETRATION INDEXES:** Repellency index A (%): Sulphuric acid 30 %: 97.2, Sodium hydroxide solution 10 %: 99.6, o-Xylene: 93.7, Butan-1-ol: 84.4; Penetration index P (%): Sulphuric acid 30 %: 0.5, Sodium hydroxide solution 10 %: 7.0, o-Xylene: 5.7, Butan-1-ol: 7.9

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

HB-CHEM

1 | JACKET

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.

Part number: **02006 10003 006 + COLOUR NO.**

Garment weight: approx. 510 g

■ **41** royal
■ **58** anthracite

Part number: **02006 10053 000 2082**

Garment weight: approx. 510 g

■ anthracite/dark blue

Regular sizes: 46–58 & 94–110

Secondary sizes: 44, 60–64, 24–29

Wearing comfort: ★ ★

Standards:



EN 13034
Type 6



EN 1149-5



2 | SHIRT

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.

Part number: **02006 60002 000 + COLOUR NO.**

Garment weight: approx. 470 g

Regular sizes: 39/40–47/48

Secondary sizes: 37/38, 49/50, 51/52

■ **41** royal
■ **58** anthracite

Wearing comfort: ★ ★

Standards:



EN 13034
Type 6



EN 1149-5





3 | TROUSERS

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.

Part number: **02006 20003 003 + COLOUR NO.**

Garment weight: approx. 500 g

Regular sizes: 46-58 & 94-110

Secondary sizes: 44, 60-64, 24-29

■ **41** royal

■ **58** anthracite

Wearing comfort: ★ ★

Standards:



EN 13034
Type 6



EN 1149-5



4 | BIB AND BRACE TROUSERS

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.

Part number: **02006 50002 007 + COLOUR NO.**

Garment weight: approx. 595 g

Regular sizes: 46-58 & 94-110

Secondary sizes: 44, 60-64, 24-29

■ **41** royal

■ **58** anthracite

Wearing comfort: ★ ★

Standards:



EN 13034
Type 6



EN 1149-5



HB-CHEMcomfort Antistatic

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

MATERIAL: HB-CHEMcomfort Antistatic // 99 % POLYESTER, 1 % CARBON, FC-EQUIPMENT ·

FABRIC WEIGHT: approx. 240 g/m² · **REPELLENCY AND PENETRATION INDEXES:** Repellency index A (%): Sulphuric acid 30 %: 97.2, Sodium hydroxide solution 10 %: 99.6, o-Xylene: 93.7, Butan-1-ol: 84.4; Penetration index P (%): Sulphuric acid 30 %: 0.5, Sodium hydroxide solution 10 %: 6.0, o-Xylene: 5.7, Butan-1-ol: 7.9 ·

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

HB-CHEM

1 | LADIES' COAT

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.

Part number: **02006 40018 000 10**

Garment weight: approx. 580 g

Regular sizes: 36/38-44/46

Secondary sizes: 48/50-56/58

white

Wearing comfort: ★ ★

Standards:



EN 13034
Type 6



EN 1149-5



All pockets with flap and covered snap fasteners

2 | MEN'S COAT

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.

Part number: **02006 40002 004 10**

Garment weight: approx. 640 g

white

Part number: **02006 40002 000 + COLOUR NO.**

Garment weight: approx. 640 g

41 royal

58 anthracite

Regular sizes: 46-58 & 94-110

Secondary sizes: 44, 60-64, 24-29

Wearing comfort: ★ ★

Standards:



EN 13034
Type 6

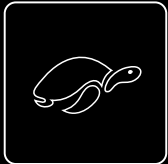


EN 1149-5





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.

MATERIAL: HB-CHEM FUNCTIONAL UNDERWEAR // 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



1 | UNDERSHIRT, LONG-/SHORTSLEEVED

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

Part number Long-Sleeved: **02008 76008 000 11**

Garment weight: approx. 200 g

Part number Short-Sleeved: **02008 76009 000 11**

Garment weight: approx. 170 g

Sizes: 6–8

off-white

Wearing comfort: ★ ★



2 | UNDERPANTS

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

Part number: **02008 76010 000 11**

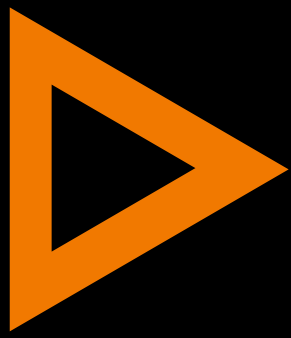
Garment weight: approx. 200 g

Sizes: 6–8

off-white

Wearing comfort: ★ ★



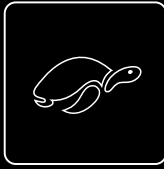


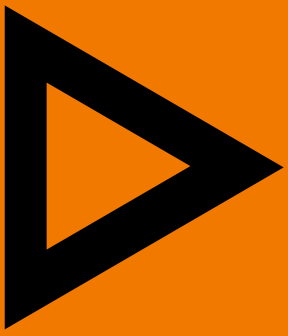
SHOW THAT YOU'RE **PROUD** OF WHAT YOU DO.

Firefighters are a professional group that holds an important protective function in our mechanised world. So why not choose a day shift wear that does justice to this importance in every respect? When it comes to our Flammgard® product

dialogue with our customers, pick up on comments and suggestions, and thus develop highly individualised solutions that are tailored not only to the different needs of men and women, but also, for example, to the special requirements of individual federal states.

FLAMMGARD





MATERIAL AND PRODUCT HIGHLIGHT

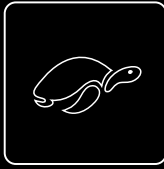
OUR DAY SHIFT WEAR FOR FIREMEN AND WOMEN FEATURES AN IMPRESSIVE LEVEL OF DETAIL. THE LEFT POCKET FLAP HAS AN OPENING FOR A RADIO ANTENNA; ABOVE IT IS A LOOP FOR THE ANTENNA MICROPHONE.

CLEVER FEATURES

THAT SUPPORT DAILY COMMUNICATION IN A MEANINGFUL WAY.

THE STATION WEAR CAN BE ADAPTED TO THE VARIOUS STANDARDS REQUIRED BY THE INDIVIDUAL GERMAN FEDERAL STATES.

FLAMMGARD



The day-shift wear of our Classic product line is produced in a hard-wearing, high-quality fabric. As a basic collection, it comprises additional trouser variants with an elasticated waistband or reflective stripes on yellow background, jackets and trousers tailored for women and a soft and easy-to-wear fleece jacket.

MATERIAL: 49 % ARAMIDE, 50 % VISCOSE FR, 1% CARBON · FLEECE // 100 % POLYESTER ·

FABRIC WEIGHT: approx. 300 g/m² · approx. 260 g/m² ·

FIELDS OF APPLICATION: Certified day shift wear for firemen



1 | BLOUSON

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

Part number: **01041 10160 000 48**

Men's blouson

Garment weight: approx. 1,100 g

Regular sizes: 44-54, 24-27, 90-106 · Secondary sizes: 56-66, 28-32, 110-122

Ladies' blouson available on request

■ dark blue

Wearing comfort: ★ ★ ★

Standards:



EN ISO 11612
A1/A2/B1/C1



2 | JACKET

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 fastener 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 fastener • reinforced elbows • hem with drawstring and safety catch • back with yoke partition.

Part number: **01041 10162 000 48**

Men's jacket

Garment weight: approx. 1,150 g

Regular sizes: 44-54, 24-27, 90-106

Secondary sizes: 56-66, 28-32, 110-122

Part number: **01041 10174 000 48**

Ladies' jacket

Garment weight: approx. 1,100 g

Regular sizes: 36-46, 17-23, 68-92

Secondary sizes: 48-60, 24-30, 96-124

■ dark blue

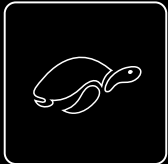
Wearing comfort: ★ ★ ★

Standards:



EN ISO 11612
A1/A2/B1/C1





All Flammgard® garments feature an impressive level of detail. The pocket flap of the jacket, for example, has an opening for the radio antenna and above it a loop for the micro.

3 | TROUSERS

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

Part number: **01041 20086 000 48**

Men's trousers

Garment weight: approx. 730 g

Part number: **01041 20117 000 48**

Ladies' trousers

Garment weight: approx. 700 g

Part number: **01041 20109 000 48**

Men's trousers with elasticated waistband

Garment weight: approx. 730 g

Part number: **01041 20086 008 48**

Men's trousers + reflective

Reflective stripes parallel to the seam • no Hi-Vis protective clothing acc. to EN ISO 20471.

Garment weight: approx. 770 g

Part number: **01041 20117 003 2051**

Ladies' trousers + reflective

Reflective stripes parallel to the seam • no Hi-Vis protective clothing acc. to EN ISO 20471.

Garment weight: approx. 740 g

Men's

Regular sizes: 44-54, 24-27, 90-106 · Secondary sizes: 56-66, 28-32, 110-122

Ladies'

Regular sizes: 36-46, 17-23, 68-92 · Secondary sizes: 48-60, 24-30, 96-124

48 dark blue

2051 dark blue/yellow

Wearing comfort: ★ ★ ★

Standards (only men's trousers):



EN ISO 11612
A1/A2/B1/C1

EN ISO 13688
HuPF 2

4 | FLEECE-JACKET

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.

Part number: **07001 10151 000 45**

Garment weight: approx. 700 g

Regular sizes: S-XL

Secondary sizes: XXL-4XL

45 navy

Wearing comfort: ★ ★ ★

Pockets with flap and hook&loop fastener

Adjustable elastic hem

Reflective stripes

Flap with pen opening

Hem with ribbed structure

NORTH RHINE-WESTFALIA

For our NRW day-shift wear for firemen which is made of a top-quality NOMEX® Aramide and Lenzing viscose mixture and according to the VVV regulation, trousers without thigh pockets are available for men and women. Here, too, we have optimised the cut of the women's trousers and shortened the waist height a little.

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-Westphalia



Hook&loop fastener for name badge

Flap with embroidery



1 | BLOUSON

Single-coloured • shoulder tunnel for rank badge • collar with flap and hook&loop fastener fastening • front zipper with press studs covered on both sides • 2 breast pockets with flaps and zips • right-hand flap with hook&loop fastener 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 • cuff width with adjustable covered hook&loop fastener; 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.

Part number: **01056 10149 000 488**

Men's blouson · Garment weight: approx. 1,125 g
 Regular sizes: 44-54, 24-27, 90-106 · Secondary sizes: 56-66, 28-32, 110-122

Part number: **01056 10168 000 488**

Ladies' blouson · Garment weight: approx. 1,060 g
 Regular sizes: 36-46, 17-23, 68-92 · Secondary sizes: 48-60, 24-30, 96-124

 black blue

Wearing comfort: ★ ★ ★

Standards:



EN ISO 11612
 A1/A2/B1/C1



2 | TROUSERS

Single-coloured • waistband with hook fastening • 2 pleats at the front, 4 darts at the back • covered 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.

Part number: **01056 20106 000 488**

Men's trousers

Garment weight: approx. 770 g
 Regular sizes: 44-54, 24-27, 90-106
 Secondary sizes: 56-66, 28-32, 110-122

Part number: **01056 20117 000 488**

Ladies' trousers

Garment weight: approx. 740 g
 Regular sizes: 36-46, 17-23, 68-92
 Secondary sizes: 48-60, 24-30, 96-124

Part number: **01056 20106 001 488**

Men's trousers without leg pocket

Garment weight: approx. 740 g
 Regular sizes: 44-54, 24-27, 90-106
 Secondary sizes: 56-66, 28-32, 110-122

Part number: **01056 20117 001 488**

Ladies' trousers without leg pocket

Garment weight: approx. 710 g
 Regular sizes: 36-46, 17-23, 68-92
 Secondary sizes: 48-60, 24-30, 96-124

■ black blue

Wearing comfort: ★ ★

Standards:



EN ISO 11612 A1/A2/B1/C1 EN ISO 13688 HuPF 2

3 | ADDITIONAL 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.



Our Flammgard® day shift wear is worn by firemen when they are not deployed at a fire scene, but rather when they are servicing equipment, attending theory courses and exercises or when they are acting as fire safety guards. The clothes are as comfortable as leisurewear, but have a high-quality look and also protect the wearer in the event of a fire.

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



1 | BLOUSON

Two-coloured • 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 fastener fastening • right-hand pocket with pen compartment and flap with hook&loop fastener 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 with covered snap fastener • hem elasticated on the side • back with "Feuerwehr" patch • flame-retardant lining.

Part number: **01056 10150 000 2240**

Men's blouson · Garment weight: approx. 1,040 g
Regular sizes: 44-54, 24-27, 90-106 · Secondary sizes: 56-66, 28-32, 110-122

Part number: **01056 10163 000 2240**

Ladies' blouson · Garment weight: approx. 1,000 g
Regular sizes: 36-46, 17-23, 68-92 · Secondary sizes: 48-60, 24-30, 96-124

 black blue/red

Wearing comfort: ★ ★ ★

Standards:



EN ISO 11612
A1/A2/B1/C1



2 | JACKET

Two-coloured • 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 press studs • right-hand pocket with pen compartment and hook&loop fastener 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 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.

Part number: **01056 10159 000 2240**

Men's jacket · Garment weight: approx. 1,060 g
Regular sizes: 44-54, 24-27, 90-106 · Secondary sizes: 56-66, 28-32, 110-122

Part number: **01056 10169 000 2240**

Ladies' jacket · Garment weight: approx. 1,020 g
Regular sizes: 36-46, 17-23, 68-92 · Secondary sizes: 48-60, 24-30, 96-124

 black blue/red

Wearing comfort: ★ ★ ★

Standards:



EN ISO 11612
A1/A2/B1/C1





3 | TROUSERS

Two-coloured • waistband with hook fastening and elasticated on the sides • 2 pleats on the front of the trousers • covered zip fastener • 2 wing pockets • 2 recessed back pockets and 2 bellow pockets on the side seam, each with flaps and snap fasteners, red trim 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.

Part number: **01056 20103 000 2240**

Men's trousers

Garment weight: approx. 690 g
 Regular sizes: 44-54, 24-27, 90-106
 Secondary sizes: 56-66, 28-32, 110-122

Part number: **01056 20111 000 2040**

Ladies' trousers

Garment weight: approx. 670 g
 Regular sizes: 36-46, 17-23, 68-92
 Secondary sizes: 48-60, 24-30, 96-124

Part number: **01056 20110 000 2240**

Men's trousers acc. to VWV

With two welt pockets with covered zips acc. to VWV.

Garment weight: approx. 690 g
 Regular sizes: 44-54, 24-27, 90-106
 Secondary sizes: 56-66, 28-32, 110-122

 black blue/red

Wearing comfort: ★ ★ ★

Standards:



EN ISO 11612 A1/A2/B1/C1 EN ISO 13688 HuPF 2

4 | ADDITIONAL 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.



Waistband with hook fastening and elasticated on the sides



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



BADEN-WÜRTTEMBERG

For Baden-Württemberg, there are an additional softshell jacket and fleece jacket for colder days. Both jackets are also suitable for use as day-shift wear.

MATERIAL: SOFTSHELL // 84 % POLYESTER, 16 % POLYURETHAN · **FLEECE** // 100 % POLYESTER ·
FABRIC WEIGHT: approx. 250 g/m² · approx. 260 g/m² · **FIELDS OF APPLICATION:** Day shift wear
 for firemen Baden-Württemberg



5 | SOFTSHELL JACKET


Two-coloured • piping on front and back • shoulder tunnel for rank badge • collar with flap and hook&loop fastener fastening • front zipper with covered press studs • 2 breast pockets with flaps and snap fasteners • right-hand pocket with pen compartment and flap with hook&loop fastener 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 "Fire Department" patch.

Part number: **04054 10161 000 2240**

Garment weight: approx. 1,070 g

Regular sizes: 44–54, 24–27, 90–106

Secondary sizes: 56–66, 28–32, 110–122

 black blue/red

Wearing comfort: ★ ★

Hook&loop fastener for name badge

Decorative piping on front and back



6 | FLEECE JACKET

Two-coloured • 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 fastener 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.

Part number: **07001 10152 000 2040**

Garment weight: approx. 700 g

Regular sizes: S-XL

Secondary sizes: XXL-4XL

 navy/red

Wearing comfort: ★ ★ ★

Hem with ribbed structure



Our Saarland day-shift clothing is also made of our popular, just 260 g/m² light Flammgard® fabric and additionally equipped with practical hook & loop fasteners. We only use high-quality materials and branded yarns such as NOMEX® Aramid and Lenzing viscose.

MATERIAL: 59% ARAMIDE, 40% VISCOSE FR, 1% CARBON · **FABRIC WEIGHT:** approx. 260 g/m² ·
FIELDS OF APPLICATION: Certified day shift wear for firemen Saarland



1 | BLOUSON


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 fastener 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.

Part number: **01056 10150 008 2240**

Men's blouson · Garment weight: approx. 1,040 g
 Regular sizes: 44-54, 24-27, 90-106 · Secondary sizes: 56-66, 28-32, 110-122

Part number **01056 10163 018 2240**

Ladies' blouson · Garment weight: approx. 1,000 g
 Regular sizes: 36-46, 17-23, 68-92 · Secondary sizes: 48-60, 24-30, 96-124

 black blue/red
 Wearing comfort: ★ ★ ★
 Standards:



EN ISO 11612
 A1/A2/B1/C1



2 | JACKET


Two-colored • 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 fastener 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.

Part number: **01056 10198 000 2240**

Men's jacket · Garment weight: approx. 1,060 g
 Regular sizes: 44-54, 24-27, 90-106 · Secondary sizes: 56-66, 28-32, 110-122

Part number: **01056 10169 004 2240**

Ladies' jacket · Garment weight: approx. 1,020 g
 Regular sizes: 36-46, 17-23, 68-92 · Secondary sizes: 48-60, 24-30, 96-124

 black blue/red
 Wearing comfort: ★ ★ ★
 Standards:



EN ISO 11612
 A1/A2/B1/C1



We have optimised the cut of our Saarland women's trousers, and they are now available with a slightly shorter waist height. In the "Saarland" design, we also offer a softshell jacket and a fleece jacket made of very light and comfortable material.

MATERIAL: TROUSERS // 59 % ARAMIDE, 40 % VISCOSE FR, 1% CARBON ·
SOFTSHELL // 84 % POLYESTER, 16 % POLYURETHAN · **FLEECE** // 100 % POLYESTER ·
FABRIC WEIGHT: approx. 260 g/m² · approx. 250 g/m² · approx. 260 g/m² ·
FIELDS OF APPLICATION: Certified day shift wear for firemen Saarland



3 | TROUSERS

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.

Part number: **01056 20103 007 2240**

Men's trousers

Garment weight: approx. 690 g
 Regular sizes: 44-54, 24-27, 90-106
 Secondary sizes: 56-66, 28-32, 110-122

Part number: **01056 20137 000 2240**

Ladies' trousers

Garment weight: approx. 670 g
 Regular sizes: 36-46, 17-23, 68-92
 Secondary sizes: 48-60, 24-30, 96-124

Part number: **01056 20110 002 2240**

Men's trousers acc. to VWV With two welt pockets with covered zips acc. to VWV.

Garment weight: approx. 710 g
 Regular sizes: 44-54, 24-27, 90-106
 Secondary sizes: 56-66, 28-32, 110-122

 black blue/red

Wearing comfort: ★ ★ ★

Standards (only men's trousers):



EN ISO 11612
 A1/A2/B1/C1

EN ISO 13688
 HuPF 2



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



4 | ADDITIONAL 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.





5 | SOFTSHELL-JACKET


Two-coloured • piping on front and back • shoulder tunnel for rank badge • collar with flap and hook&loop fastening • front zipper with covered snap fasteners • 2 breast pockets with flap and snap fastener • right-hand pocket with pen compartment and hook&loop fastener 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.

Part number: **04054 10161 001 2240**

Garment weight: approx. 1,070 g

Regular sizes: 44-54, 24-27, 90-106

Secondary sizes: 56-66, 28-32, 110-122

 black blue/red

Wearing comfort: ★ ★

Hook&loop fastener for name badge

Decorative piping on front and back



6 | FLEECE-JACKET


Two-coloured • piping on front and back • shoulder tunnel for rank badge • stand-up collar with zip fastening • front zipper with snap fasteners covered on both sides • 2 breast pockets with flaps and hook&loop fastening • right-hand flap with hook&loop fastener 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.

Part number: **07001 10152 001 2040**

Garment weight: approx. 700 g

Regular sizes: S-XL

Secondary sizes: XXL-4XL

 navy/red

Wearing comfort: ★ ★ ★

Hem with ribbed structure



▶ TECHNICAL ASSISTANCE/DGUV

A true classic in the field of technical assistance: our suit in a hard-wearing and flame-retardant fabric with DGUV stripes. The carefully manufactured reflective stripes may provide better visibility in the dark. Name tags can be attached front and back with wide hook&loop fastener strips.

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



1 | JACKET

Single-coloured • with reflective stripes • no Hi-Vis protective clothing acc. to EN ISO 20471 • yoke partition on front and back • collar with flap and hook&loop fastening • front zipper with snap fasteners covered on both sides • 2 breast pockets with flaps and hook&loop fastening • right-hand pocket flap with hook&loop fastener 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 fastener for name badge • sleeves with reinforced elbows • flame-retardant lining.



Part number: **01041 10162 001 48**
Garment weight: approx. 1,100 g
Regular sizes: 46-54, 24-27, 90-106
Secondary sizes: 56-66, 28-32, 110-122
■ dark blue
Wearing comfort: ★ ★ ★
Standards:



EN ISO 11612
A1/A2/B1/C1

2 | TROUSERS

Single-coloured • with reflective strips • no Hi-Vis protective clothing acc. to EN ISO 20471 • waistband with hook 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 recessed back pocket with flap and zip • 2 bellow pockets on the side seam with flaps and zips • adjustable elasticated hem • seat seam designed to be easy to modify.



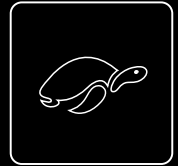
Part number: **01041 20086 006 48**
Garment weight: approx. 740 g
Regular sizes: 46-54, 24-27, 90-106
Secondary sizes: 56-66, 28-32, 110-122
■ dark blue
Wearing comfort: ★ ★ ★
Standards:



EN ISO 11612
A1/A2/B1/C1

EN ISO 13688
HuPF 2

AREA FIRE FIGHTING



This product line has been developed in cooperation with the fire brigade of Freiburg/Germany. It is suited for area fire fighting and technical assistance.

It offers excellent wearing comfort and breathability. Thanks to the innovative material, we can offer one of the most lightweight jackets for these application areas.

MATERIAL: JACKET + BIB & BRACE // 54 % MODACRYLIC, 45 % LYOCELL, 1 % CARBON ·
IDENTIFICATION COLLAR // 54 % MODACRYLIC, 45 % COTTON, 1 % CARBON · **FABRIC WEIGHT:**
 approx. 325 g/m² · **FIELDS OF APPLICATION:** Fire fighting in wide areas, technical assistance



1 | JACKET

3-coloured • segmented reflective stripes with yellow background • no Hi-Vis protective clothing acc. to EN ISO 20471 • 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 tape • hem with ribbed structure.

Part number: **01016 10196 000 3358**
 Garment weight: approx. 1,270 g
 Regular sizes: 46-54, 24-27, 90-106
 Secondary sizes: 56-66, 28-32, 110-122
 red/dark blue/yellow
 Wearing comfort: ★ ★ ★



Collar for the back



Hook & loop tape for collar attachment

Pocket flaps easy to open

Pre-formed tailoring for more freedom of movement

2 | IDENTIFICATION COLLAR

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.

Part number: **01036 70049 000 + COLOUR NO.**

| | |
|-----------|---------------|
| 10 white | 35 moss green |
| 17 yellow | 41 royal |
| 25 red | |

 Sizes: One size

3 | BIB AND BRACE

Single-coloured • segmented reflective stripes with yellow background • no Hi-Vis protective clothing acc. to EN ISO 20471 • fix-lock braces • waistband with covered hook & loop fastening • covered zip-fly • elasticated hem 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 wristband.

Part number: **01016 50091 000 488**
 Garment weight: approx. 1,070 g
 Regular sizes: 46-54, 24-27, 90-106
 Secondary sizes: 56-66, 28-32, 110-122
 dark blue
 Wearing comfort: ★ ★ ★

1 and 3 | Standards:



EN ISO 11612
A1/A2/B1/C1

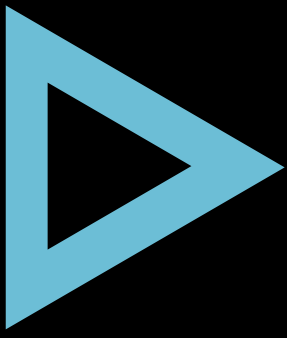


EN 15614
A1/A2



Elasticated hem width adjustment

Pocket flaps easy to open

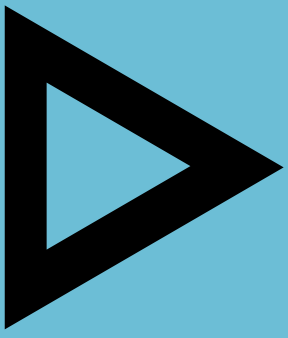


SO THE WORKING DAY DOESN'T LEAVE YOU OUT IN THE COLD.

Anyone who is exposed to temperatures down to $-49\text{ }^{\circ}\text{C}$ in refrigerated warehouses and cold storage rooms needs to be quite tough – unless he specifically arms himself with products from our TEMPEX® cold protection range. The collections are designed in such a manner that the individual products complement each other and the wearer can put together his or her own suitable protection – from head to toe, and from inside to outside.

COLD
PROTECTION





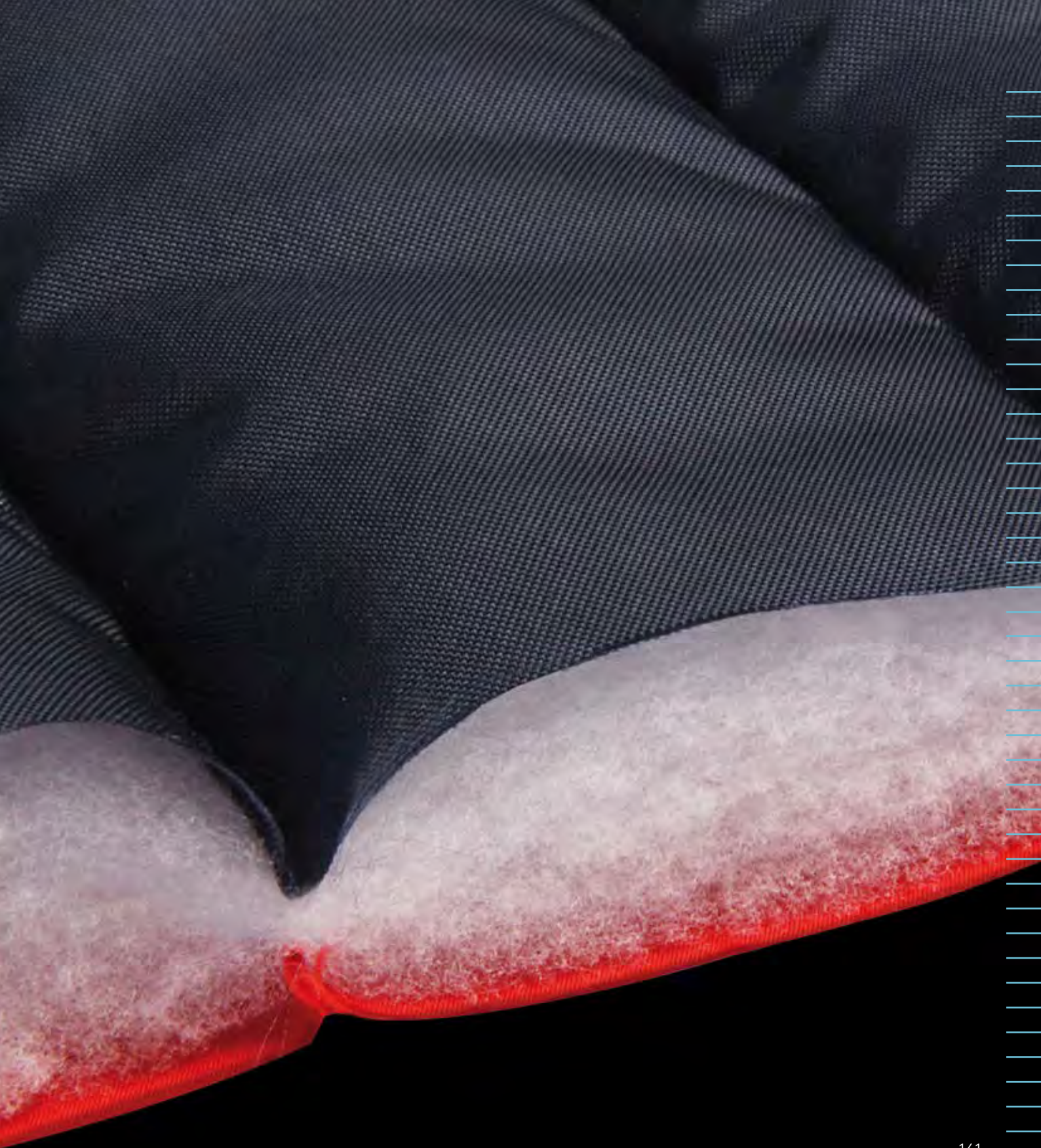
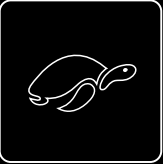
MATERIAL AND PRODUCT HIGHLIGHT

AIR POCKETS IN THE FLUFFY MATERIAL PROVIDE THE NECESSARY BARRIER AGAINST THE COLD AND KEEP THE WARMTH CLOSE TO THE BODY, SO THAT EVEN AMBIENT TEMPERATURES BELOW MINUS 40 DEGREES CAN BE COMPENSATED FOR.

WELL INSULATED

A FABRIC EXCLUSIVELY PRODUCED FOR HB, ELABORATELY DESIGNED AND MANUFACTURED WITH HIGHEST CARE: THIS MAKES US THE CHAMPION FOR COLD PROTECTION GARMENTS.

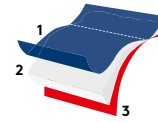
COLD
PROTECTION



▶ TEMPEX® COLD STORE CLASSIC 2.0

The TEMPEX® COLD STORE CLASSIC 2.0-collection has been advanced with a fresh new design. Ergonomically pre-formed sleeves and trouser legs and the optimised length provide more freedom of movement and greater wearing comfort. The ideal choice of protection for work in extremely cold conditions.

CONSTRUCTION: 1) 100 % POLYAMIDE · 2) TEMPEX® HIGH-BULK, INSULATING NON-WOVEN · 3) 100 % POLYESTER INNER LINING ·
FABRIC WEIGHT: approx. 515 g/m²



Ladies'

Preformed sleeves



Adjustable faux fur collar



Men

Reflective tape

1 | ORDER PICKER JACKET

Single-coloured • extra-strong non woven insulation • 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.

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

Men's Order Picker Jacket

Garment weight: approx. 1,660 g

Regular sizes: 46/48–58/60 · Secondary sizes: 42/44 & 62/64

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

Ladies' Order Picker Jacket

Garment weight: approx. 1,330 g

Regular sizes: 36/38–44/46 · Secondary sizes: 32/34, 48/50, 52/54

■ navy
Standards:



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COLD PROTECTION



Ladies'



Zip-through leg zippers with inner cover



Men

Preformed legs

2 | ORDER PICKER TROUSERS

Single-coloured • extra-strong non woven insulation • 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 with inner cover • covered front zipper with inner cover (only men's version) • raised waistband at the back with hanging loop.

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

Men's Order Picker Trousers

Garment weight: approx. 1,400 g

Regular sizes: 46/48–58/60 · Secondary sizes: 42/44 & 62/64

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

Ladies' Order Picker Trousers

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

Garment weight: approx. 1,200 g

Regular sizes: 36/38–44/46 · Secondary sizes: 32/34, 48/50, 52/54

■ navy
Standards:

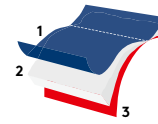


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TEMPEX® COLD STORE AND COLD STORE PLUS CLASSIC

Cold store clothing provides head-to-toe cold protection with high-bulk non-woven fabric for insulation. The versions with acrylic fur insulation or extra-thick non-woven fabric for additional warmth and protection are suitable for long-term use and forklift drivers.

CONSTRUCTION: 1) 100 % POLYAMIDE · 2) TEMPEX® HIGH-BULK, INSULATING NON-WOVEN · 3) 100 % POLYESTER INNER LINING ·
FABRIC WEIGHT: approx. 520 g/m² / approx. 560 g/m² (Order Picker Jacket/Trouser with acrylic fur lining) / approx. 630 g/m² (Forklift Driver Jacket/Trouser)



1, 2 and 3 |
Circumferential reflective strip

Female cut





Ladies


1 and 3 |
Tight-fitting collar of faux fur with a hook&loop fastener


1 | JACKET

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

Part number: **09045 1K000 000 2040** 
Men's Order Picker Jacket
 Garment weight: approx. 1,680 g

Part number: **09045 1K001 000 2040** 
Ladies' Order Picker Jacket
 Garment weight: approx. 1,380 g

Part number: **09028 1K009 000 2040** 
Order Picker Jacket with acrylic fur lining
 Garment weight: approx. 1,740 g

Part number: **09046 1K012 001 2040** 
Forklift Driver Jacket
 Extra-strong non woven insulation
 Garment weight: approx. 1,840 g

Part number: **09046 1K012 000 2040** 
Forklift Driver Jacket, long-term
 Extra-strong non woven insulation • Additional acrylic fur lining on the back
 Garment weight: approx. 2,095 g

Men: Regular sizes: 46/48–58/60 · Secondary sizes: 42/44 & 62/64
 Ladies: Regular sizes: 36/38–44/46 · Secondary sizes: 32/34, 48/50, 52/54

 navy/red

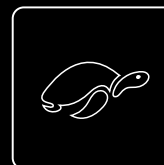
Standards:



EN 342





Men





2 | TROUSERS


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


Part number: **09045 2K000 000 2040** 
Men's Order Picker Trousers
Garment weight: approx. 1,520 g

Part number: **09045 2K001 000 2040** 
Ladies' Order Picker Trousers
Garment weight: approx. 1,355 g

Part number: **09028 2K006 000 2040** 
Order Picker Trousers with acrylic fur lining
Garment weight: approx. 1,600 g

Part number: **09046 2K007 001 2040** 
Forklift Driver Trousers
Extra-strong non woven insulation
Garment weight: approx. 1,650 g

Part number: **09046 2K007 000 2040** 
Forklift Driver Trousers, long-term
Extra-strong non woven insulation • knee pockets including additional knee insulation.
Garment weight: approx. 1,845 g

Men: Regular sizes: 46/48–58/60 · Secondary sizes: 42/44 & 62/64
Ladies: Regular sizes: 36/38–44/46 · Secondary sizes: 32/34, 48/50, 52/54
 navy/red


Standards:




EN 342

3 | COAT

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

Part number: **09045 4K000 000 2040** 
Garment weight: approx. 1,885 g

Regular sizes: 46/48–58/60 · Secondary sizes: 42/44 & 62/64
 navy/red

Standards:



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Raised back

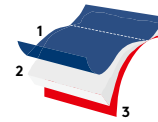
Full-length leg zippers with inner flaps



TEMPEX® COLD STORE AND COLD STORE PLUS CLASSIC



Cold store clothing provides head-to-toe cold protection with high-bulk non-woven fabric for insulation. The versions with acrylic fur insulation or extra-thick non-woven fabric for additional warmth and protection are suitable for long-term use and forklift drivers.

CONSTRUCTION: 1) 100 % POLYAMIDE · 2) TEMPEX® HIGH-BULK, INSULATING NON-WOVEN · 3) 100 % POLYESTER INNER LINING ·
FABRIC WEIGHT: approx. 520 g/m² · approx. 645 g/m² (Forklift Driver Coverall)



1 | ORDER PICKER COVERALL

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 with inner flaps · knee insulation made of acrylic fur lining · reinforced hem made of the outer fabric · circumferential reflective tape on chest and legs · no Hi-Vis protective clothing acc. to EN ISO 20471.

Part number: **09045 3K000 000 2040** 
 Garment weight: approx. 2,410 g
 Regular sizes: 46/48-58/60 · Secondary sizes: 42/44 & 62/64
 navy/red
 Standards:



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Adjustable hip size

1 and 2 |
Circumferential reflective tape on chest and legs

2 | FORKLIFT DRIVER COVERALL LONG-TERM

Two-coloured · additional insulation at back and knees · 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 with inner flaps · knee insulation made of acrylic fur lining · reinforced seat and hem made of the outer fabric · circumferential reflective tape on chest and legs · no Hi-Vis protective clothing acc. to EN ISO 20471.

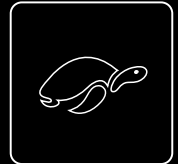
Part number: **01183 3K003 000 2040** 
 Garment weight: approx. 3,090 g
 Regular sizes: 46/48-58/60 · Secondary sizes: 42/44 & 62/64
 navy/red



Belt

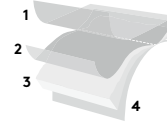
1 and 2 |
Knee insulation made of acrylic fur lining

TEMPEX® COLD STORE HYGIENE



TEMPEX® COLD STORE HYGIENE was developed for tasks which require food to be handled hygienically in cold store environments. Smooth, easy-to-clean surfaces and inside pockets with zip fastenings provide the extra safety that is especially important when handling unpackaged food. Reflective piping also increases visibility.

CONSTRUCTION: 1) 100 % POLYAMIDE · 2) CHARMEUSE · 3) TEMPEX® HIGH-BULK, INSULATING NON-WOVEN · 4) 100 % POLYESTER INNER LINING ·
FABRIC WEIGHT: approx. 515 g/m²



1 | ORDER PICKER JACKET

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

Part number: **01174 1K005 001 3116**
 Garment weight: approx. 1,205 g
 Regular sizes: 46/48–58/60 · Secondary sizes: 42/44 & 62/64
 white/silver grey/yellow
 Standards:



1 and 2 |
 Tight-fitting collar made of fleece with hook&loop fastener

2 | COAT

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 with inner flap • knitted cuffs • elastic waistband in the back • right-side reflective patch • reflective piping in the chest and arm areas.

Part number: **01174 4K001 001 3116**
 Garment weight: approx. 1,565 g
 Regular sizes: 46/48–58/60 · Secondary sizes: 42/44 & 62/64
 white/silver grey/yellow
 Standards:



1 and 2 |
 2-way front zipper with inner flap

3 | TROUSERS

Two-coloured • adjustable suspenders • raised back • covered front zipper • full-length 2-way leg zippers with inner flaps • knee pad pockets • reinforced hem made of the outer fabric • reflective appliques on the straps.

Part number: **01174 2K008 003 2237**
 Garment weight: approx. 1,365 g
 Regular sizes: 46/48–58/60 · Secondary sizes: 42/44 & 62/64
 white/silver grey
 Standards:

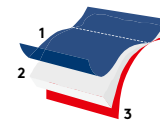


Knee pad pockets

TEMPEX® COLD STORE AND COLD STORE PLUS COMFORT

The high-quality materials used for the TEMPEX® COMFORT product line – such as high-bulk non-woven fabric and charmeuse fabric – ensure outstanding wearing comfort and reliable cold protection. Numerous pockets provide additional storage space including an inside pocket which can hold a pick-by-voice computer and which has been developed especially for order pickers.

CONSTRUCTION: 1) 100 % POLYAMIDE · 2) CHARMEUSE · 3) TEMPEX® HIGH-BULK, INSULATING NON-WOVEN · 4) 100 % POLYESTER INNER LINING ·
FABRIC WEIGHT: approx. 545 g/m² / approx. 645 g/m² (Forklift Driver Jacket/Trouser)





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




1 | JACKET


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 with inner flap • knitted cuffs • elastic waistband in the back • right-side reflective patch • reflective piping in the chest, arm and pocket areas.

Part number: **01183 1K005 000 2040** 
Men's Order Picker Jacket
 Inside pocket for a pick-by-voice computer.
 Garment weight: approx. 1,730 g

Part number: **01183 1K006 000 2040** 
Ladies' Order Picker Jacket
 Inside pocket for a pick-by-voice computer.
 Garment weight: approx. 1,535 g

Part number: **01183 1K013 000 2040** 
Forklift Driver Jacket
 Extra-strong non woven insulation. · Garment weight: approx. 1,840 g

Part number: **01183 1K018 000 2040** 
Forklift Driver Jacket, long-term
 Extra-strong non woven insulation • additional acrylic fur lining on the back. · Garment weight: approx. 2,090 g

Men
 Regular sizes: 46/48–58/60 · Secondary sizes: 42/44 & 62/64
 Ladies
 Regular sizes: 36/38–44/46 · Secondary sizes: 32/34, 48/50, 52/54
 navy/red
 Standards:




Raised back


Additional
 knee insulation
 made of acrylic
 fur lining





2 | TROUSERS

Single-coloured • adjustable suspenders • covered front zipper (only men's version) • full-length 2-way leg zippers with inner flaps • side pockets • knee pad pockets • reinforced hem made of the outer fabric • reflective patches on the straps.

Part number: **01183 2K002 000 45** 
Men's Order Picker Trousers
 Knee insulation made of acrylic fur lining.
 Garment weight: approx. 1,665 g

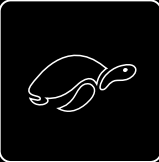
Part number: **01183 2K003 000 45** 
Ladies' Order Picker Trousers
 Knee insulation made of acrylic fur lining.
 Garment weight: approx. 1,550 g

Part number: **01183 2K010 000 45** 
Forklift Driver Trousers
 Extra-strong non woven insulation.
 Garment weight: approx. 1,810 g

Men
 Regular sizes: 46/48–58/60 · Secondary sizes: 42/44 & 62/64
 Ladies
 Regular sizes: 36/38–44/46 · Secondary sizes: 32/34, 48/50, 52/54
 navy
 Standards:



COLD PROTECTION



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



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



.....
Additional knee insulation made of acrylic fur lining

3 | COAT

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 breast pocket with zipper • 2 side pockets • 2-way front zipper with inner flap • knitted cuffs • elastic waistband in the back • right-side reflective patch • reflective piping in the chest, arm and pocket areas.

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

Garment weight: approx. 1,720 g

Regular sizes: 46/48-58/60 · Secondary sizes: 42/44 & 62/64

navy/red

Standards:



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4 | ORDER PICKER COVERALL

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 breast pocket with zipper • 2 side pockets • 2-way front zipper with inner flap • knitted cuffs • elastic waistband in the back • leg zippers with inner flaps • knee pad pocket • 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.

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

Garment weight: approx. 2,600 g

Regular sizes: 46/48-58/60 · Secondary sizes: 42/44 & 62/64

navy/red

Standards:

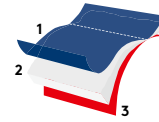


EN 342

TEMPEX® CHILLROOM CLASSIC

The TEMPEX® CHILLROOM CLASSIC-warehouse clothing has a lighter layer of non-woven fabric insulation than the TEMPEX® COLD STORE collections and is therefore particularly suitable for work in chilled areas with temperatures between 0°C and 10°C. Thanks to the sophisticated design and cut, this clothing is even suitable for tasks requiring a lot of movement. The ladies' jackets also have a slightly fitted cut.

CONSTRUCTION: 1) 100 % POLYAMIDE · 2) TEMPEX® HIGH-BULK, INSULATING NON-WOVEN · 3) 100 % POLYESTER INNER LINING ·
FABRIC WEIGHT: approx. 415 g/m²



Collar of faux fur with a hook&loop fastener

Female cut



Ladies

Circumferential reflective tape

Chest pocket with zipper

1 | JACKET

Two-coloured · tight-fitting collar of faux fur with a hook&loop fastener · left-side chest pocket with zipper (men's version only) · 2 front pockets · covered front zipper · knitted cuffs · elastic waistband in the back · circumferential reflective tape · no Hi-Vis protective clothing acc. to EN ISO 20471 · lighter non-woven insulation than TEMPEX® COLD STORE.

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

Men's Chillroom Jacket

Garment weight: approx. 1,300 g

Regular sizes: 46/48-58/60 · Secondary sizes: 42/44 & 62/64

Art.-Nr.: **09044 1K049 000 2040**

Ladies' Chillroom Jacket

Garment weight: approx. 1,205 g

Regular sizes: 36/38-44/46 · Secondary sizes: 32/34, 48/50, 52/54

 navy/red

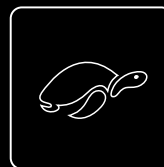
Standards:



EN 342



Men




2 | BODY WARMER

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

Part number: **09044 1K050 000 2040**

Garment weight: approx. 560 g

Regular sizes: 46/48–58/60 · Secondary sizes: 42/44 & 62/64

 navy/red



Pencil pocket

3 | TROUSERS

Two-coloured • adjustable suspenders • raised back • front zipper • full-length leg zippers with inner flaps • side pockets • reinforced hem made of the outer fabric • circumferential reflective tape on the legs • no Hi-Vis protective clothing acc. to EN ISO 20471 • lighter non-woven insulation than TEMPEX® COLD STORE.

Part number: **09044 2K024 000 2040**

Men's Chillroom Trousers

Garment weight: approx. 1,290 g

Regular sizes: 46/48–58/60 · Secondary sizes: 42/44 & 62/64

Part number: **09044 2K001 002 2040**

Ladies' Chillroom Trousers

Garment weight: approx. 1,150 g

Regular sizes: 36/38–44/46 · Secondary sizes: 32/34, 48/50, 52/54

 navy/red

Standards:



EN 342

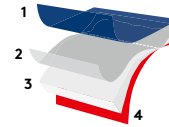
Full-length leg zippers with inner flaps



TEMPEX® CHILLROOM COMFORT

Our CHILLROOM COMFORT range has a fresh look thanks to its TEMPEX® specific design in red and navy. The functional details of this comfortable collection include amongst others a large inside pocket for pick-by-voice devices, retro-reflective applications, 2-way zip fastenings and raised kidney protection. It is perfectly suited for chilled areas with temperatures between 0 °C and 10 °C.

CONSTRUCTION: 1) 100 % POLYAMIDE · 2) CHARMEUSE · 3) TEMPEX® HIGH-BULK, INSULATING NON-WOVEN · 4) 100 % POLYESTER INNER LINING ·
FABRIC WEIGHT: approx. 445 g/m²



1 | JACKET

Two-coloured • tight-fitting collar of faux fur with hook&loop fastener • inside pocket for a pick-by-voice computer • left-side chest pocket with pencil pocket and logo flap • 2 side pockets • left-side inside chest pocket with zipper • 2-way front zipper with inner flap • knitted cuffs • elastic waistband in the back • right-side reflective patch • reflective piping in the chest, arm and pocket areas • lighter non-woven insulation than TEMPEX® COLD STORE COMFORT.

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

Men's Chillroom Jacket · Garment weight: approx. 1,395 g
 Regular sizes: 46/48-58/60 · Secondary sizes: 42/44 & 62/64

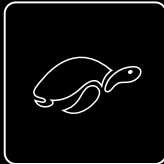
Part number: **01183 1K008 001 2040**

Ladies' Chillroom Jacket · Garment weight: approx. 1,365 g
 Regular sizes: 36/38-44/46 · Secondary sizes: 32/34, 48/50, 52/54

 navy/red
 Standards:



EN 342



Front zipper with chin protection



Covered front zipper (only men's version)

Side pockets

Full-length 2-way leg zippers with inner covering

2 | BODY WARMER


Two-coloured • stand-up fleece collar, may be worn opened or closed • pencil pocket on the left side of the chest • 2 front pockets • front zipper with chin protection.

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

Garment weight: approx. 640 g

Regular sizes: 46/48–58/60

Secondary sizes: 42/44 & 62/64

 navy/red

3 | TROUSERS

Two-coloured • adjustable suspenders • raised back waistband • covered front zipper (only men's version) • full-length 2-way leg zippers with inner covering • side pockets • knee pad pockets • reinforced hem made of the outer material • reflective appliqués on the straps • lighter non-woven insulation than TEMPEX® COLD STORE COMFORT.

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

Men's Chillroom Trousers • Garment weight: approx. 1,485 g

Regular sizes: 46/48–58/60 • Secondary sizes: 42/44 & 62/64

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

Ladies' Chillroom Trousers • Garment weight: approx. 1,300 g

Regular sizes: 36/38 bis 44/46 • Secondary sizes: 32/34, 48/50, 52/54

 navy/red

Standards:

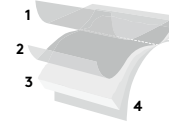


EN 342

TEMPEX® CHILLROOM HYGIENE

The TEMPEX® CHILLROOM HYGIENE product line has been developed to work in a cool environment where a high standard of hygiene is provided. The wear-resistant outer material and the lightweight padding optimally protect the wearer. The internal pockets allow reliable working with unpackaged food at 0°C to 10°C.

CONSTRUCTION: 1) 100 % POLYAMIDE · 2) CHARMEUSE · 3) TEMPEX® HIGH-BULK, INSULATING NON-WOVEN · 4) 100 % POLYESTER INNER LINING ·
FABRIC WEIGHT: approx. 415 g/m²



1 | JACKET

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

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

Garment weight: approx. 1,180 g

Regular sizes: 46/48–58/60 · Secondary sizes: 42/44 & 62/64

white/silver grey/fluorescent yellow

Standards:



EN 342

2 | BODY WARMER

Three-coloured • high 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.

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

Garment weight: approx. 590 g

Regular sizes: 46/48–58/60 · Secondary sizes: 42/44 & 62/64

white/silver grey/fluorescent yellow

3 | TROUSERS

Two-coloured • adjustable suspenders • raised back • covered front zipper • full-length 2-way leg zippers with inner flaps • reinforced hem made of the outer fabric • reflective appliqués on the straps • lighter non-woven insulation than TEMPEX® COLD STORE HYGIENE.

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

Garment weight: approx. 1,200 g

Regular sizes: 46/48–58/60 · Secondary sizes: 42/44 & 62/64

white/silver grey

Standards:



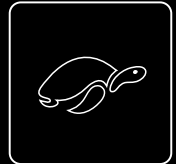
EN 342



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

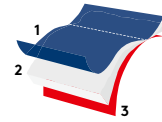


TEMPEX® CHILLROOM CONTOUR



The TEMPEX® CHILLROOM CONTOUR clothing ensures excellent wearing comfort thanks to its lightweight fabric. Numerous pockets for tools and a useful inside pocket for a pick-by-voice computer make this product line the ideal choice for order picking in chill rooms and refrigerated warehouses. It can be worn when working in chilled areas with temperatures between 0 °C and 10 °C.

CONSTRUCTION: 1) 100 % POLYAMIDE · 2) TEMPEX® HIGH-BULK, INSULATING NON-WOVEN · 3) 100 % POLYESTER INNER LINING ·
FABRIC WEIGHT: approx. 415 g/m²



1 | PARKA

Single-coloured • fluffy collar made of fleece with press buttons • pencil pocket on the left side of the chest • 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.

Part number: **01174 1K015 000 45**

Men's Chillroom Parka

Garment weight: approx. 1,315 g

Regular sizes: 46/48–58/60 · Secondary sizes: 42/44 & 62/64

Part number: **01174 1K016 000 45**

Ladies' Chillroom Parka

Garment weight: approx. 1,280 g

Regular sizes: 36/38–44/46 · Secondary sizes: 32/34, 48/50, 52/54

■ navy



2 | BODY WARMER

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

Part number: **01174 1K027 000 45**

Men's Chillroom Body Warmer

Garment weight: approx. 850 g

Regular sizes: 46/48–58/60 · Secondary sizes: 42/44 & 62/64

Part number: **01174 1K028 000 45** // old: 30062-1026-0055

Ladies' Chillroom Body Warmer

Garment weight: approx. 830 g

Regular sizes: 36/38–44/46 · Secondary sizes: 32/34, 48/50, 52/54

■ navy



Covered front zipper with chin protector

Inside phone pocket

3 | TROUSERS

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

Part number: **01174 2K013 000 45**

Men's Chillroom Trousers

Garment weight: approx. 1,180 g

Regular sizes: 46/48–58/60 · Secondary sizes: 42/44 & 62/64

Part number: **01174 2K014 000 45**

Ladies' Chillroom Trousers

Garment weight: approx. 1,140 g

Regular sizes: 36/38–44/46 · Secondary sizes: 32/34, 48/50, 52/54

■ navy

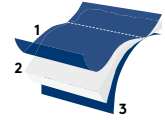


Full-length 2-way leg zippers with inner flaps

TEMPEX® THERMO ERGOPLUS

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.

CONSTRUCTION: 1) UPPER MATERIAL: 100 % POLYAMIDE · 2) DIAMOND NON-WOVEN INSULATION · 3) 100 % POLYESTER INNER LINING · **FABRIC WEIGHT:** approx. 245 g/m²



1 | JACKET

Single-coloured • high fleece collar • front zipper with chin protection • pencil pocket on the left side of the chest.

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

Men's Thermal Jacket ErgoPlus

Garment weight: approx. 435 g

Regular sizes: 46/48–58/60 · Secondary sizes: 42/44 & 62/64

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

Ladies' Thermal Jacket ErgoPlus

Garment weight: approx. 445 g

Regular sizes: 36/38–44/46 · Secondary sizes: 32/34, 48/50, 52/54

■ navy

1 and 4 |
Pre-formed sleeves
with optimised
length and drop-tail

Female cut



Ladies

2 | BODY WARMER

Single-coloured • high fleece collar • front zipper with chin protection • pencil pocket on the left side of the chest.

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

Men's Thermal Body Warmer ErgoPlus

Garment weight: approx. 305 g

Regular sizes: 46/48–58/60 · Secondary sizes: 42/44 & 62/64

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

Ladies' Thermal Body Warmer ErgoPlus

Garment weight: approx. 315 g

Regular sizes: 36/38–44/46 · Secondary sizes: 32/34, 48/50, 52/54

■ navy

1, 2, 4 and 5 |
Pencil pocket
on the left side
of the chest

Female cut



Ladies

3 | TROUSERS

Single-coloured • elastic waistband • front zipper (men's trousers), side zipper (ladies' trousers) • legs with fleece at the bottom.

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

Men's Thermal Trousers ErgoPlus

Garment weight: approx. 370 g

Regular sizes: 46/48–58/60 · Secondary sizes: 42/44 & 62/64

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

Ladies' Thermal Trousers ErgoPlus

Garment weight: approx. 400 g

Regular sizes: 36/38–44/46 · Secondary sizes: 32/34, 48/50, 52/54

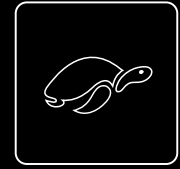
■ navy

3 and 6 |
Pre-formed legs

3 and 6 |
Legs with fleece
at the bottom



Ladies



4 | JACKET HYGIENE

Single-coloured • high fleece collar • front zipper with chin protection • pencil pocket on the left side of the chest.

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

Men's Thermal Jacket ErgoPlus HYGIENE

Garment weight: approx. 435 g

Regular sizes: 46/48–58/60 · Secondary sizes: 42/44 & 62/64

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

Ladies' Thermal Jacket ErgoPlus HYGIENE

Garment weight: approx. 445 g

Regular sizes: 36/38–44/46 · Secondary sizes: 32/34, 48/50, 52/54

white



Men

5 | BODY WARMER HYGIENE

Single-coloured • high fleece collar • front zipper with chin protection • pencil pocket on the left side of the chest.

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

Men's Thermal Body Warmer ErgoPlus HYGIENE

Garment weight: approx. 305 g

Regular sizes: 46/48–58/60 · Secondary sizes: 42/44 & 62/64

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

Ladies' Thermal Body Warmer ErgoPlus HYGIENE

Garment weight: approx. 315 g

Regular sizes: 36/38–44/46 · Secondary sizes: 32/34, 48/50, 52/54

white



Men

6 | TROUSERS

Single-coloured • elastic waistband • front zipper (men's trousers), side zipper (ladies' trousers) • legs with fleece at the bottom.

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

Men's Thermal Trousers ErgoPlus HYGIENE

Garment weight: approx. 370 g

Regular sizes: 46/48–58/60 · Secondary sizes: 42/44 & 62/64

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

Ladies' Thermal Trousers ErgoPlus HYGIENE

Garment weight: approx. 400 g

Regular sizes: 36/38–44/46 · Secondary sizes: 32/34, 48/50, 52/54

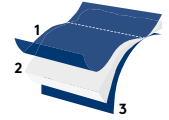
white



Men

An important part of ensuring comprehensive protection when working in chill rooms and cold environments is wearing the right intermediate layers. Complete your cold protection with TEMPEX® THERMO-clothing. The "HYGIENE" product line was specially developed for working with food products. Both product lines can be combined with our cold store and chill room clothing. The ladies' versions have a slightly fitted cut.

CONSTRUCTION: 1) UPPER MATERIAL: 100 % POLYAMIDE · 2) DIAMOND NON-WOVEN INSULATION · 3) 100 % POLYESTER INNER LINING · **FABRIC WEIGHT:** approx. 245 g/m²



1 | JACKET

Single-coloured • high collar made of fleece • front zipper • knitted cuffs.

Part number: **09020 1K002 000 45**

Men's Thermal Jacket

Garment weight: approx. 450 g
Regular sizes: 46/48–58/60 · Secondary sizes: 42/44 & 62/64

Part number: **09020 1K010 001 45**

Ladies' Thermal Jacket

Garment weight: approx. 435 g
Regular sizes: 36/38–44/46 · Secondary sizes: 32/34, 48/50, 52/54

■ navy



2 | BODY WARMER

Single-coloured • high collar made of fleece • front zipper.

Part number: **09020 1K023 001 45**

Men's Thermal Body Warmer

Garment weight: approx. 285 g
Regular sizes: 46/48–58/60 · Secondary sizes: 42/44 & 62/64

Part number: **09020 1K025 000 45**

Ladies' Thermal Body Warmer

Garment weight: approx. 295 g
Regular sizes: 36/38–44/46 · Secondary sizes: 32/34, 48/50, 52/54

■ navy



3 | TROUSERS

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

Part number: **09020 2K009 000 45**

Men's Thermal Trousers

Garment weight: approx. 400 g
Regular sizes: 46/48–58/60 · Secondary sizes: 42/44 & 62/64

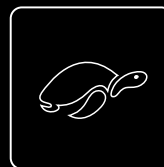
Part number: **09020 2K011 000 45**

Ladies' Thermal Trousers

Garment weight: approx. 350 g
Regular sizes: 36/38–44/46 · Secondary sizes: 32/34, 48/50, 52/54

■ navy





4 | JACKET HYGIENE

Single-coloured • high collar made of fleece • front zipper • knitted cuffs.

Part number: **09020 1K002 001 10**

Men's Thermal Jacket

Garment weight: approx. 450 g

Regular sizes: 46/48–58/60 · Secondary sizes: 42/44 & 62/64

Part number: **09020 1K010 000 10**

Ladies' Thermal Jacket

Garment weight: approx. 435 g

Regular sizes: 36/38–44/46 · Secondary sizes: 32/34, 48/50, 52/54

white



5 | BODY WARMER HYGIENE

Single-coloured • high collar made of fleece • front zipper.

Part number: **09020 1K023 000 10**

Men's Thermal Body Warmer

Garment weight: approx. 285 g

Regular sizes: 46/48–58/60 · Secondary sizes: 42/44 & 62/64

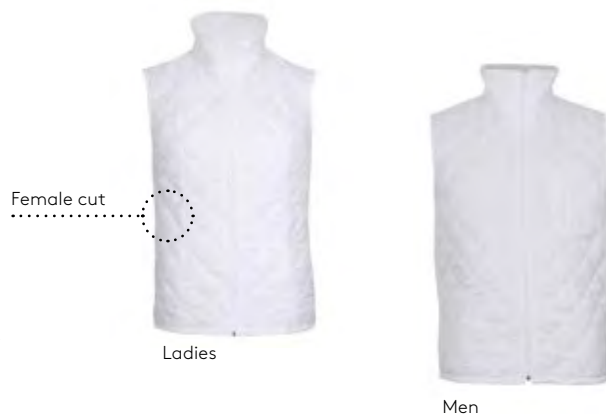
Part number: **09020 1K025 001 10**

Ladies' Thermal Body Warmer

Garment weight: approx. 295 g

Regular sizes: 36/38–44/46 · Secondary sizes: 32/34, 48/50, 52/54

white



6 | TROUSERS HYGIENE

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

Part number: **09020 2K009 000 10**

Men's Thermal Trousers

Garment weight: approx. 400 g

Regular sizes: 46/48–58/60 · Secondary sizes: 42/44 & 62/64

Part number: **09020 2K001 001 10**

Ladies' Thermal Trousers

Garment weight: approx. 350 g

Regular sizes: 36/38–44/46 · Secondary sizes: 32/34, 48/50, 52/54

white



TEMPEX® COLD PROTECTION FLEECE

TEMPEX® COLD PROTECTION 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.

MATERIAL: FLEECE: 100 % POLYESTER // TRIM MATERIAL: 100 % POLYESTER
FABRIC WEIGHT: approx. 265 g/m² / approx. 155 g/m² (Shirt)

1 | JACKET

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

Part number: **07024 1K003 000 45**

Men's Fleece Jacket

Garment weight: approx. 535 g

Regular sizes: 46/48–58/60 • Secondary sizes: 42/44 & 62/64

Part number: **07024 1K004 000 45**

Ladies' Fleece Jacket

Garment weight: approx. 430 g

Regular sizes: 36/38–44/46 • Secondary sizes: 32/34, 48/50, 52/54

■ navy

Forearm abrasion protection

1, 2 and 3 |
Waistband with draw-string



2 | BODY WARMER

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

Part number: **07024 1K029 000 45**

Men's Fleece Body Warmer

Garment weight: approx. 360 g

Regular sizes: 46/48–58/60 • Secondary sizes: 42/44 & 62/64

Part number: **07024 1K030 000 45**

Ladies' Fleece Body Warmer

Garment weight: approx. 375 g

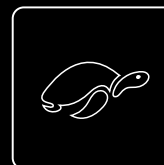
Regular sizes: 36/38–44/46 • Secondary sizes: 32/34, 48/50, 52/54

■ navy

Female cut

1, 2 and 3 |
2 side pockets with zipper





3 | SHIRT

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

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

Garment weight: approx. 290 g

Regular sizes: 46/48–58/60 · Secondary sizes: 42/44 & 62/64

■ navy



3 and 4 |

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

4 | TROUSERS

Single-coloured • elastic stretch waistband • elastic hem.

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

Men's Fleece Trousers

Garment weight: approx. 410 g

Regular sizes: 46/48–58/60 · Secondary sizes: 42/44 & 62/64

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

Ladies' Fleece Trousers

Garment weight: approx. 365 g

Regular sizes: 36/38–44/46 · Secondary sizes: 32/34, 48/50, 52/54

■ navy





TEMPEX® COLD PROTECTION FUNCTIONAL UNDERWEAR

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.

1 | 2-LAYER SHIRT, LONG-SLEEVED

Single-coloured • excellent balance of temperature • comfortable raglan sleeve • close-fitting cuff • extra-long back • non-bulky flat seams • suitable for movement-intensive activities

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

Material: Cotton

Garment weight: approx. 215 g

Sizes: 4-8

■ navy



1, 2 and 3 |
Non-bulky
flat seams

2 | 2-LAYER SHIRT, LONG-SLEEVED, TURTLENECK

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

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

Material: Cotton

Garment weight: approx. 230 g

Sizes: 4-8

■ navy



3 | 2-LAYER UNDERPANTS, LONG

Single-coloured • excellent balance of temperature • elastic waistband • leg end with cuff • non-bulky flat seams • suitable for movement-intensive activities.

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

Material: Cotton

Garment weight: approx. 205 g

Sizes: 4-8

■ 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.

4 | KIDNEY BELT

Hook&loop fastener for adjusting waist circumference.

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

Sizes: S-XL

■ navy



▶ TEMPEX® COLD PROTECTION FACE- AND HEAD PROTECTION

COLD
PROTECTION



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

1 | ALASKA HOOD

Single-coloured • faux fur lining • forehead protection • neck protection • ear protection • hook&loop strap for securing the ear protection in place.

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

Sizes: 56-64

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.



2 | HOOD CLASSIC

Single-coloured • tight-fitting knit edge • press button at the front • drawcord • 2 button holes for securing to a jacket • suitable for CLASSIC jackets and coveralls.

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

One size

Sale unit: 1 piece

■ navy



3 | HOOD COMFORT

Single-coloured • tight-fitting knit edge • hook&loop fastener at the front • drawcord • 2 button holes and snap hooks for securing to the jacket • suitable for COMFORT jackets, coats and coveralls.

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

One size

Sale unit: 1 piece

■ navy



4 | HOOD HYGIENE

Single-coloured • tight-fitting knit edge • hook&loop fastener at the front • drawcord • 2 button holes and snap hooks for securing to the jacket • suitable for HYGIENE jackets and coats.

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

One size

Sale unit: 1 piece

□ white





TEMPEX® COLD PROTECTION FACE- AND HEAD PROTECTION

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

5 | KNITTED CAP

Single-coloured • double knitted • scotchgard treatment • thinsulate lining.

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

One size

Sale unit: 1 piece

■ **46** black

□ **10** white



6 | KNITTED CAP, BALACLAVA

Single-coloured • face opening with elastic strap for flexible and secure fit.

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

One size

Sale unit: 1 piece

■ black



7 | KNITTED CAP, BALACLAVA, 2-LAYERED

Single-coloured • fine functional fabric • face opening with elastic strap for flexible and secure fit.

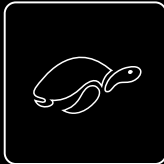
Part number: **04036 7Z014 001 45**

One size

Sale unit: 1 piece

■ navy





8 | INSULATED SAFETYHELMET

Two-coloured • storage pocket for hearing protection • removable, washable insulated inside part • tested down to -30 °C.

Part number: **90007 7Z006 000 2279**
Insulated Safety Helmet, complete

Part number: **01158 7K000 000 48**
Insulating Insert, separate

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



EN 397



9 | FLEECE NECK WARMER

Single-coloured • soft fleece material.

Part number: **07028 7Z004 000 46**

One size
Sale unit: 1 piece
black





TEMPEX® COLD PROTECTION HAND PROTECTION

We offer the right kind of warm gloves for people working in freezer and cold storage areas: ten different kinds of order picker gloves, several kind of qualities and models, 3-finger and 5-finger gloves, high-end materials like nappa leather, full grain leather, neoprene and Thinsulate as well as double-insulated gloves for fork drivers.

1 | COLD STORE GLOVES PRO

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.

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

Sizes: 7-11 · Sale unit: 1 piece

■ ■ black/middle grey

Standards:



EN 511



EN 388



2 | ORDER PICKER GLOVES

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.

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

Sizes: 8-10 · Sale unit: 1 piece

■ ■ black/middle grey

Standards:



EN 511



3 | ORDER PICKER GLOVES

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.

Part number: **04043 7Z000 012 2037**

Sizes: 8-11 · Sale unit: 1 piece

■ ■ navy/yellow

Standards:



EN 511



3-1 | Previous version

Available while stocks last, same manufacture, cut and material quality, without certificate.

Part number: **04043 7Z000 039 2037**

4 | ORDER PICKER GLOVES

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.

Part number: **04043 7Z000 001 2037**

Sizes: 8-10 · Sale unit: 1 piece

■ ■ navy/yellow

Standards:



EN 511



4-1 | Previous version

Available while stocks last, same manufacture, cut and material quality, without certificate.

Part number: **04043 7Z000 040 2037**




5 | ORDER PICKER GLOVES

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.

Part number: **04047 7Z000 009 2037**

Sizes: 8-10 · Sale unit: 1 piece

 navy/yellow

Standards:



EN 511



6 | ORDER PICKER GLOVES

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.

Part number: **14009 7Z000 014 2275**

Sizes: 10, 12 · Sale unit: 1 piece

 white/brown

Standards:



EN 511




7 | ORDER PICKER GLOVES

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.

Part number: **14009 7Z000 008 2275**

Sizes: 10 · Sale unit: 1 piece

 white/brown

Standards:



EN 511




8 | ORDER PICKER GLOVES

Two-coloured • backs of hands made of nappa leather • palms made of Robustan leather • knitted cuffs • wirkflor insulation up to the start of the cuff • burling on 3 fingers and the thumbs.

Part number: **14005 7Z000 016 2275**

Sizes: 10 · Sale unit: 1 piece

 white/brown

Standards:



EN 511





TEMPEX® COLD PROTECTION HAND PROTECTION

We offer the right kind of warm gloves for people working in freezer and cold storage areas: ten different kinds of order picker gloves, several kind of qualities and models, 3-finger and 5-finger gloves, high-end materials like nappa leather, full grain leather, neoprene and Thinsulate as well as double-insulated gloves for fork drivers.

9 | ORDER PICKER GLOVES

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.

Part number: **14006 7Z000 015 2049**

Sizes: 9, 10 · Sale unit: 1 piece

 black/middle grey

Standards:



EN 511

10 | 3-FINGER FORKLIFT DRIVER GLOVES

Two-coloured • backs of hands made of nappa leather • palms made of Robustan leather • cuff made of top grain split leather • double-insulation made of foam and acrylic fur lining.

Part number: **14009 7Z001 000 2275**

Sizes: 10 · Sale unit: 1 piece

 white/brown

Standards:



EN 511

11 | ORDER PICKER GLOVES, LEATHER WITH CANVAS

Two-coloured • backs of hands made of canvas • palms made of split leather • cuffs made of canvas • Thinsulate insulation.

Part number: **14004 7Z000 013 2288**

Sizes: 10 · Sale unit: 1 piece

 beige/brown

Standards:



EN 511



EN 388

12 | FLEECE GLOVES

Single-coloured • made of polar fleece • palms covered with leather • elastic band at the wrist • insulation made of fleece lining with Thinsulate 100 g.

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

Sizes: 8, 10 · Sale unit: 1 piece

 black

These TEMPEX® fleece gloves are referred to as reference clothing in the EN 342 standard, and they are used for the tests by certification institutes.





13 | FLEECE GLOVES

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

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

Sizes: 8, 10 · Sale unit: 1 piece

■ black



14 | FLEECE GLOVES

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

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

Sizes: 8–11 · Sale unit: 1 piece

■ black



15 | MONOTHERM GLOVES

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.

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

Sizes: 10 · Sale unit: 1 piece

■ navy



16 | KNITTED GLOVES

Two-coloured • palms covered with rubber nubs • knitted cuffs.

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

Sizes: 8, 9, 10

Sale unit: 1 piece

■ navy



▶ TEMPEX® COLD PROTECTION FOOT PROTECTION



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

1 | S2 INSULATED SAFETY BOOTS WITH STEEL TOECAP

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 toe cap.

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

Sizes: 37-50

 **2001** white/yellow
 **2046** black/red



Non-slip and cold-resistant outsole



Easy-to-put-on zipper





2 | S2 LACED SAFETY BOOTS WITH STEEL TOECAP

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.

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

Sizes: 36–50

■ black

Standards:



EN 20345



3 | UNIVERSAL SOCKS

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

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

One size

Sale unit: 1 piece

■ dark grey



4 | ALASKA SOCKS

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

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

Sizes: 37-38, 39-40, 41-42, 43-44, 45-46, 47-48

Sale unit: 1 pair

■ middle grey



5 | LINER SOCKS

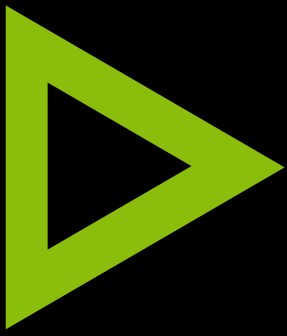
Single-coloured • made of tricot • flannel lining.

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

Sizes: 38–47

Sale unit: 1 piece

■ middle grey

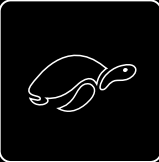


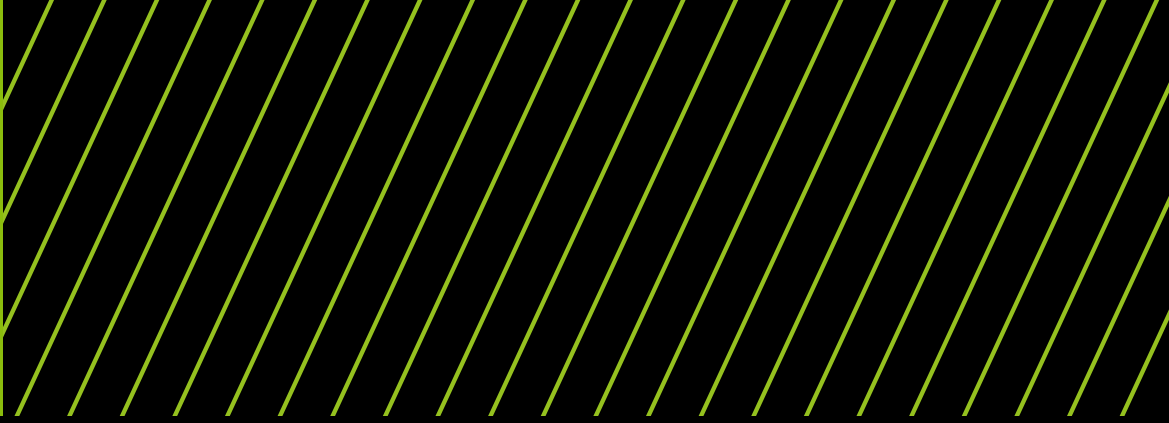
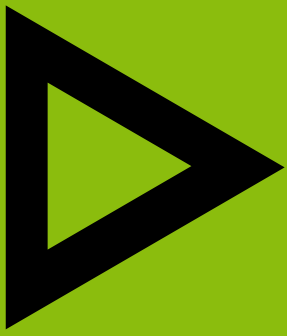
EVEN THE JACKET KNOWS HOW TO CONDUCT BUSINESS.

When handling sensitive product parts, it is important that people working in production do not become electrically charged and thus damage the product parts. As a result, we manufacture garments that offer very reliable conductivity,

tested time and time again in our state-of-the-art test centre. The result is an extensive and diverse ESD range of unrivalled quality.

ESD
ELECTRO-
STATIC
DISCHARGE





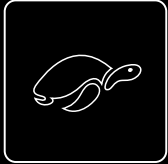
MATERIAL AND PRODUCT HIGHLIGHT

THE NEW SWEAT JACKETS FROM THE CONDUCTEX® PRO KNIT SERIES FEATURE A SPECIAL INTEGRATED ANTISTATIC THREAD, WHICH IS DYED LIKE THE REST OF THE JACKET WITHOUT IMPAIRING ITS ANTISTATIC PROPERTIES.

CHAMELEON

IT IS THUS CAMOUFLAGED LIKE A CHAMELEON. THE GRID, WHICH IS ALSO BARELY PERCEPTIBLE, CREATES A MODERN LOOK IN TWO PLAIN VERSIONS.

ESD
ELECTRO-
STATIC
DISCHARGE



CONDUCTEX® is one of the lightest and most comfortable materials for protection of products against electrostatic discharge. Furthermore, the blended fabric offers a good functionality and high wearing comfort. The closure seams are additionally edged. Fabric with the quality label "breathability" of the Hohenstein certification institute.

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



1 | LADIES' COAT SHORT-SLEEVED

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.

Part number: **08005 48027 000 10**

Garment weight: approx. 335 g

Regular sizes: XS-L

Secondary sizes: XXS, XL-XXXL

white

Wearing comfort: ★ ★

Standards:



EN 61340-5-1



Female cut

2 | LADIES' COAT LONG-SLEEVED

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.

Part number: **08005 48028 000 10**

Garment weight: approx. 360 g

Regular sizes: XS-L

Secondary sizes: XXS, XL-XXXL

white

Wearing comfort: ★ ★

Standards:



EN 61340-5-1



3 | MEN'S LONG-SLEEVED COAT WITH KNITTED CUFFS

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.

Part number: **08005 48011 040 10**

Garment weight: approx. 350 g

Regular sizes: S-XL

Secondary sizes: XS, XXL, XXXL

white

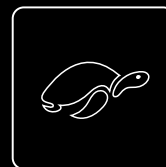
Wearing comfort: ★ ★

Standards:



EN 61340-5-1





4 | COAT SHORT-SLEEVED

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.

Part number: **08005 48019 005 10**

Ladies' coat

Garment weight: approx. 275 g

Regular sizes: XS-L · Secondary sizes: XXS, XL-XXXL

Part number: **08005 48011 011 10**

Men's coat

Garment weight: approx. 285 g

Regular sizes: S-XL · Secondary sizes: XS, XXL-XXXL

white

Wearing comfort: ★ ★

Standards:



EN 61340-5-1



Attached front pocket

5 | COAT LONG-SLEEVED

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.

Part number: **08005 48019 000 + COLOUR NO.**

Ladies' coat

Garment weight: approx. 320 g

Regular sizes: XS-L · Secondary sizes: XXS, XL-XXXL

Part number: **08005 48011 000 + COLOUR NO.**

Men's coat

Garment weight: approx. 330 g

Regular sizes: S-XL · Secondary sizes: XXS, XXL-XXXL

10 white

41 royal

50 silver grey

471 pastel blue

Wearing comfort: ★ ★

Standards:



EN 61340-5-1



CONDUCTEX® is one of the lightest and most comfortable materials for protection of products against electrostatic discharge. Furthermore, the blended fabric offers a good functionality and high wearing comfort. The closure seams are additionally edged. Fabric with the quality label "breathability" of the Hohenstein certification institute.

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




Attached front pocket with flap and inside pocket

1 | BLOUSON


Single-coloured • snap fastener strip covered on one side • 1 attached breast pocket on the left and 2 attached side pockets • each reinforced and with flap and covered snap fasteners • 1 inside pocket on the left • 1 sleeve pocket on the left, adjustable cuffs with snap fastener • ESD embroidered emblem on the sleeve pocket.

Part number: **08005 18000 003 41**

Garment weight: approx. 360 g

Regular sizes: 46-58, 94-110

Secondary sizes: 44, 60-64

 royal

Wearing comfort: ★ ★

Standards:

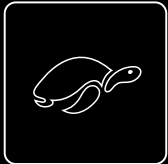


EN 61340-5-1



Adjustable waistband

ESD
ELECTRO-
STATIC
DISCHARGE



Hohenstein breathability label



Leg Pocket

Embroidered ESD Logo

2 | TROUSERS

Single-coloured • attached waistband with button fastening • zip fly • 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 fastener • ESD embroidered emblem.

Part number: **08005 28007 000 + COLOUR NO.**

Garment weight: approx. 290 g

Regular sizes: 46-58, 94-110

Secondary sizes: 44, 60-64

■ **41** royal

■ **45** navy

Wearing comfort: ★ ★

Standards:



EN 61340-5-1

CLEANTEX® 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.

MATERIAL: 98 % POLYESTER, 2 % CARBON · **FABRIC WEIGHT:** approx. 100 g/m² · **CHARACTERISTICS:** very low weight · **SURFACE RESISTIVITY:** 10⁵ to 10⁶ Ω (used test climate: 23 (±1) °C room temperature, 25 (±5) % air humidity) · **FIELDS OF APPLICATION:** ESD and Cleanroom production, like wafer production



..... Embroidered ESD logo

1 | COAT LONG-SLEEVED WITH KNIT CUFFS LADIES/MEN

Single-coloured • cut without side seams • band collar • front with one-sided covered snap fastener band • 1 attached front pocket on the left with pen compartment and 2 snap fasteners on top for attachment of name plate • 2 attached side pockets • sleeves with stretchy knit cuffs • embroidered ESD logo on left upper arm.

Part number: **06002 46004 000 10**

Ladies' coat

Garment weight: approx. 245 g

Regular sizes: XS-L

Secondary sizes: XXS, XL-XXXL

Part number: **06002 46003 000 10**

Men's coat

Garment weight: approx. 245 g

Regular sizes: S-XL

Secondary sizes: XS, XXL, XXXL

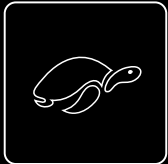
white

Wearing comfort: ★ ★

Standards:



EN 61340-5-1



Band collar with snap fasteners; front with zip fastener



Waist adjustment via elastic band, adjustable on both sides via buttons

2 | COVERALL

Single-coloured • band collar with snap fasteners • front with zip fastener • 1 ball-pen pocket on left front with 2 snap fasteners on top for attachment of name plate • raglan sleeves with knit cuffs • waist adjustment via elastic button band with button adjustable on both sides • 1 leg pocket on the right • 1 mobile phone pocket on right thigh • leg opening with knit cuffs • embroidered ESD logo on left upper arm.

Part number: **06002 36001 000 10**

Garment weight: approx. 355 g

Regular sizes: Unisex S–XL

Secondary sizes: Unisex XS, XXL, XXXL

white

Wearing comfort: ★ ★

Standards:



EN 61340-5-1

3 | MEN'S COAT LONG-SLEEVED

Single-coloured • cut without side seams • band collar • front with one-sided covered snap fastener band • 1 attached front pocket on the left with pen compartment and 2 snap fasteners on top for attachment of name plate • 2 attached side pockets • sleeve hem adjustable via snap fasteners • embroidered ESD logo on left upper arm.

Part number: **06002 46002 000 10**

Garment weight: approx. 230 g

Regular sizes: S–XL

Secondary sizes: XS, XXL, XXXL

white

Wearing comfort: ★ ★

Standards:



EN 61340-5-1



Embroidered ESD logo

▶ CONDUCTEX® Cotton Knit

High Functionality – High Comfort: T-Shirts and Polo shirts made of CONDUCTEX® Cotton Knit offer high wearing comfort as they are knitted, not woven. This design allows for very high mobility. Furthermore, the materials are characterised by very good functionality thanks to its carbon file. Available in numerous colours and womens' shirts with female cut.

MATERIAL: 95 % COTTON, 5 % CARBON · **FABRIC WEIGHT:** approx. 160 g/m² · **SURFACE RESISTIVITY:** 10⁶ to 10⁷Ω (used test climate: 23 (±1) °C room temperature, 25 (±5) % air humidity) ·
FIELDS OF APPLICATION: Electronics manufacturing

CONDUCTEX®

1 | MEN'S T-SHIRT SHORT-SLEEVED

Single-coloured • comfortable neck width • stylish shirt length, suitable for wearing on top • embroidered ESD logo on left upper arm.

Part number: **08010 86002 000 + COLOUR NO.**

Garment weight: approx. 180 g

Regular sizes: S–XL

Secondary sizes: XS, XXL, XXXL

■ **41** royal

■ **45** navy

■ **46** black

■ **50** silver grey

Wearing comfort: ★ ★ ★

Standards:



EN 61340-5-1



2 | MEN'S POLO SHIRT SHORT-SLEEVED

Single-coloured or two-coloured • conductive polo collar • polo placket with buttoning • front pocket on the left with button • stylish shirt length, suitable for wearing on top • embroidered ESD logo on left upper arm.

Two-coloured version: collar and sleeve opening in contrast colour.

Part number two-coloured: **08011 86004 000 + COLOUR NO.**

Garment weight: approx. 220 g

■ **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.

Part number single-coloured: **08011 86004 002 + COLOUR NO.**

Garment weight: approx. 210 g

□ **10** white

■ **50** silver

■ **45** navy

■ **46** black

Regular sizes: S–XL · Secondary sizes: XS, XXL, XXXL

Wearing comfort: ★ ★ ★

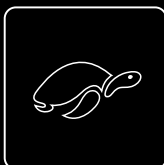
Standards:



EN 61340-5-1



1, 2 and 3 |
ESD logo on
left upper arm



Women's shirts with fitted waist

1, 2 and 3 | ESD logo on left upper arm



1, 2 and 3 | Embroidered logo

3 | LADIES' POLO SHIRT SHORT-SLEEVED

Single- or two-coloured • female cut • conductive polo collar • polo placket with buttoning • front pocket on the left with button • stylish shirt length, suitable for wearing on top • embroidered ESD logo on left upper arm.

Two-coloured version: collar and sleeve opening in contrast colour.

Part number two-coloured: **08011 86013 000 + COLOUR NO.**

Garment weight: approx. 180 g

2031 royal/silver grey

2186 black/silver grey

More colours available on request.

Part number single-coloured: **08011 86013 001 + COLOUR NO.**

Garment weight: approx. 175 g

10 white

50 silver grey

45 navy

Regular sizes: XS-L · Secondary sizes: XXS, XL-XXXL

Wearing comfort: ★ ★ ★

Standards:



EN 61340-5-1



▶ 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.

MATERIAL: 95 % COTTON, 5 % CARBON · **FABRIC WEIGHT:** POLOSHIRT approx. 160 g/m² · SWEATSHIRT 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®



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

1 | MEN'S POLO SHIRT LONG-SLEEVED


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.


Part number: **08011 86008 000 + COLOUR NO.**


Garment weight: approx. 255 g

Regular sizes: S-XL

Secondary sizes: XS, XXL, XXXL

 **2031** royal/silver grey

 **2042** navy/silver grey

 **2064** silver grey/navy

Wearing comfort: ★ ★ ★

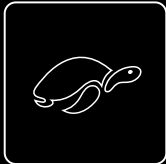
Standards:



EN 61340-5-1

1, 2 and 3 | ESD logo on left upper arm





2 | SWEATSHIRT

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

Part number: **08014 86019 000 50**

Garment weight: approx. 440 g

Regular sizes: Unisex S–XL

Secondary sizes: Unisex XS, XXL, XXXL

■ silver grey

Wearing comfort: ★ ★ ★

Standards:



EN 61340-5-1



Comfortable round neck

3 | SWEAT JACKET SINGLE- AND 2-COLOURED

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.

Two-Coloured: Collar, sleeve hems and waistband in contrast colour.

Part number: **08014 86012 001 + COLOUR NO.**

Garment weight: approx. 525 g

■ 50 silver grey

■ 46 black

Part number: **08014 86012 000 2064**

Garment weight: approx. 510 g

■ silver grey/navy

More colours available on request.

Regular sizes: Unisex S–XL

Secondary sizes: Unisex XS, XXL, XXXL

Wearing comfort: ★ ★ ★

Standards:



EN 61340-5-1



Conductive polo collar

▶ CONDUCTEX® Pro Knit & ACCESSORIES ESD

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.

MATERIAL: POLO SHIRTS // 48 % COTTON, 48 % POLYESTER, 4 % CARBON ·
 SWEAT JACKET // 60 % POLYESTER, 33 % COTTON, 7 % CARBON · **FABRIC WEIGHT:** approx. 170 g/m² ·
 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



1 | MEN'S POLO SHIRT SHORT-SLEEVED


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.


Part number: **08012 86004 000 + COLOUR NO.**

Garment weight: approx. 235 g

Regular sizes: S-XL

Secondary sizes: XS, XXL, XXXL

 **2031** royal/silver grey

 **2064** silver grey/navy

More colours available on request.

Wearing comfort: ★ ★ ★

Standards:



EN 61340-5-1



2 and 3 |
Conductive polo collar



2 | MEN'S POLO SHIRT SHORT-SLEEVED

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.


Part number: **08012 86004 002 + COLOUR NO.**

Garment weight: approx. 235 g

Regular sizes: S-XL

Secondary sizes: XS, XXL, XXXL

 **45** navy

 **50** silver grey

More colours available on request.

Wearing comfort: ★ ★ ★

Standards:



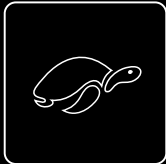
EN 61340-5-1



2 and 3 |
ESD logo on left upper arm



ESD
ELECTRO-
STATIC
DISCHARGE



ESD logo
on left upper arm



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

3 | SWEAT JACKET

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.

Part number: **08016 86012 005 + COLOUR NO.**

Garment weight: approx. 550 g

Regular sizes: Unisex S–XL

Secondary sizes: Unisex XS, XXL, XXXL

■ **46** black

■ **45** navy

Wearing comfort: ★ ★ ★

Standards:



EN 61340-5-1



4 | ESD AND CLEANROOM GLOVES

ESD gloves reliably prevent electric discharge at places where voltage-sensitive work is performed. Newly available is a glove, which can be used in ESD and cleanroom areas, making it a key complement for ESD and cleanroom clothing.

STYLE ESD/REINRAUM

Uncoated, with knitted trims

Part number: **08009 76004 001 50**

Material: Nylon with Carbon

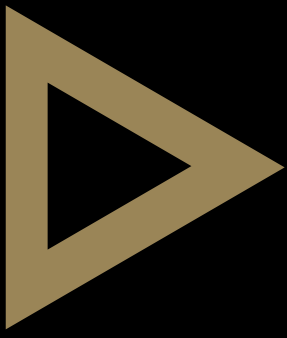
Garment weight: approx. 20 g

Sizes: S-XL

Unit: 10 pair

■ grey



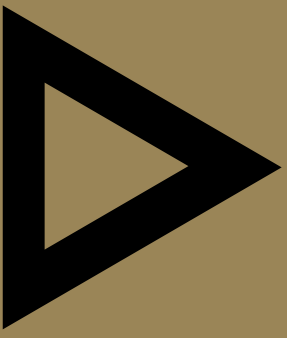


A CLEAN JOB: YOU CAN RELY ON THAT.

Special laws apply in the cleanroom: The air should be as dust-free as possible, and lint and particles simply have no place there. That's why clean rooms require fabrics that, as far as possible, don't shed any pieces of material and also act as filters for particles released by the body. Our collections meet all the requirements, right down to the last detail, to keep particle concentrations as low as possible. The manufacture of the garments is precisely matched to the special requirements.

CLEANROOM
& DUST





MATERIAL AND PRODUCT HIGHLIGHT

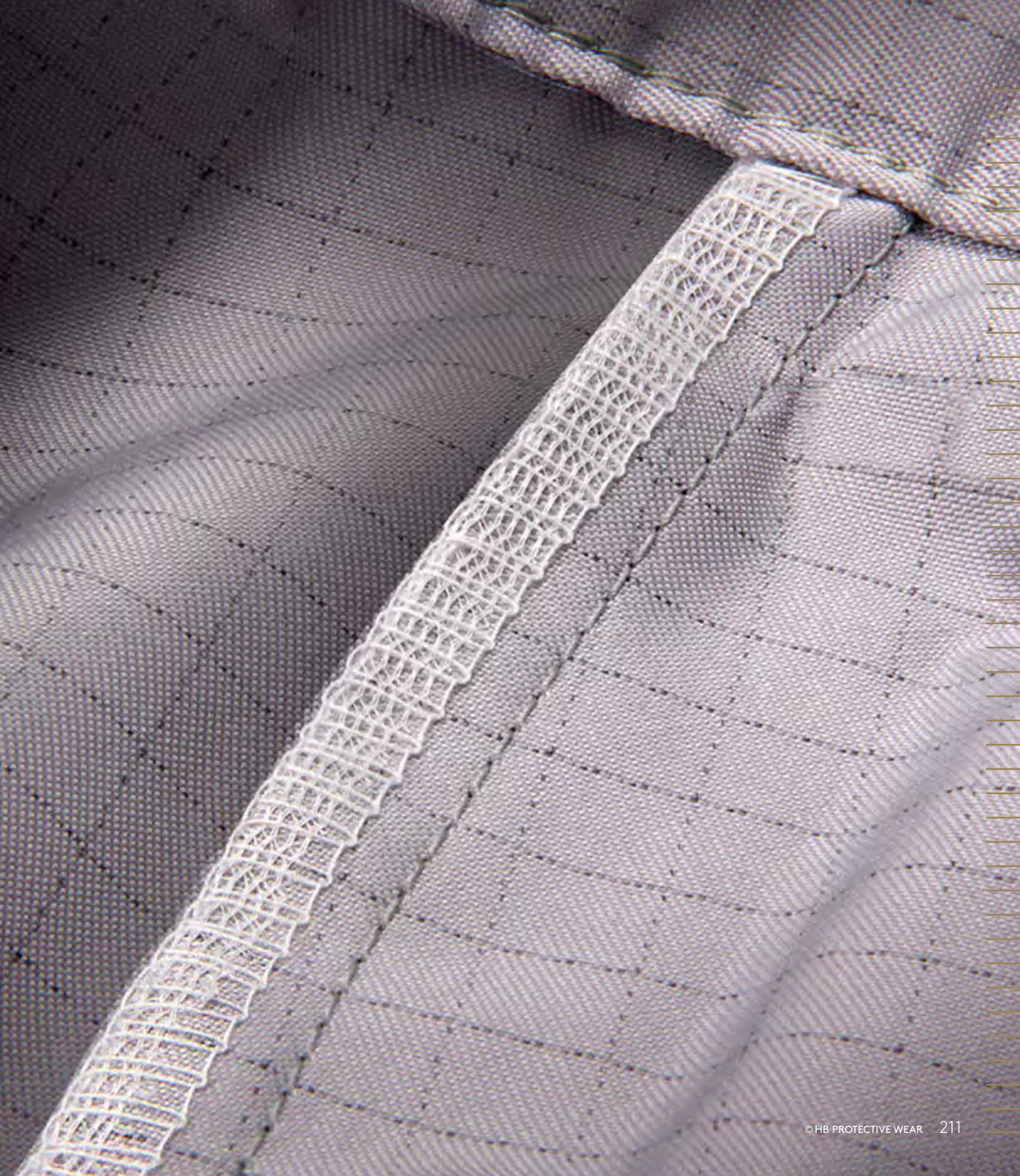
THE WORKMANSHIP OF THE GARMENTS, IN PARTICULAR OF THE SEAMS, REMAINS SIGNIFICANT.

THE USE OF EDGE BINDING ALONG THE SEAM GUARANTEES CORRECT CUTTING EDGE WORKMANSHIP, THUS MINIMISING PARTICLE PERMEABILITY AS FAR AS POSSIBLE.

REALLY NEAT

IT IS ALWAYS THE SMALL DETAILS THAT MAKE THE BIG DIFFERENCE IN DAILY USE.

CLEANROOM
& DUST



HABETEX® Viscose

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.

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®

1 | COVERALL

Single-coloured · band collar with hook&loop fastener · front edge with covered 2-way 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.

Part number: **06013 37003 000 53**

Material: HABETEX® Cleanroom Viscose / approx. 130 g/m²

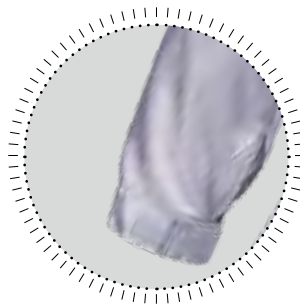
Garment weight: approx. 455 g

Regular sizes: 46/48-58/60

Secondary sizes: 42/44 & 62/64

■ grey

Wearing comfort: ★ ★ ★



1 and 2 |

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



1 and 2
Waist adjustment
with integrated lateral
elastic waistband

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



2 | COVERALL WITH HOOD

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 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.

Part number: **06013 37024 001 53**

Material: HABETEX® Cleanroom Viscose / approx. 130 g/m²

Garment weight: approx. 500 g

Regular sizes: 46/48–58/60

Secondary sizes: 42/44 & 62/64

■ grey

Wearing comfort: ★ ★ ★

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.

MATERIAL: 72 % VISCOSE, 28 % POLYESTER · **FABRIC WEIGHT:** approx. 105 g/m² ·

CHARACTERISTICS: particularly high wearing comfort, very low garment weight, chemical cleaning recommended · **FIELDS OF APPLICATION:** Automotive industry, paint shop

HABETEX®

1 | MEN'S COAT

Single-coloured · band collar · front edge with covered 2-way 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 snap fasteners for adjustment.

Part number: **06015 47010 000 + COLOUR NO.**

Garment weight: approx. 290 g

Regular sizes: 46/48-58/60

Secondary sizes: 42/44 & 62/64

■ **47** light blue

■ **48** dark blue

■ **53** grey

Wearing comfort: ★ ★ ★



2 | COVERALL

Single-coloured · band collar · front with covered 2-way zip fastener · 1 front pocket with flaps and snap fastener (marine design: 2 front pockets) · 1 hip pocket on the right with flap, no fastener · 1 trowel pocket on the right (marine design: 2 side seam pockets) · 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.

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

■ dark blue

Regular sizes: 46/48-58/60

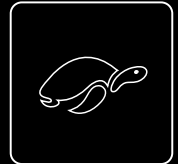
Secondary sizes: 42/44 & 62/64

Wearing comfort: ★ ★ ★



HABETEX® Micronplus

CLEANROOM
& DUST



This material feels very comfortable for being a polyester fabric. HABETEX® Micronplus is characterised by good water vapour permeability. The solid basic garment has been designed particularly for cleanrooms and meets very high demands. Its manufacture has been specially adapted to suit the specific cleanroom requirements.

MATERIAL: 98 % POLYESTER, 2 % CARBON · **FABRIC WEIGHT:** approx. 150 g/m² ·

CHARACTERISTICS: fuzz resistant, suited for cleanroom areas with high requirements ·

FIELDS OF APPLICATION: Automotive industry, paint shop



1 | COVERALL, 2-COLOURED


Two-coloured • band collar • covered 2-way 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 snap fasteners.


Part number: **06008 37001 000 + COLOUR NO.**

Garment weight: approx. 640 g

Regular sizes: 46/48–58/60

Secondary sizes: 42/44 & 62/64

 **2033** royal/bugatti blue

 **2083** anthracite/silver grey

Wearing comfort: ★ ★

Front edge with covered
2-way zip fastener



..... Ruler pocket

2 | COVERALL, SINGLE-COLOURED


Single-coloured • turn-down collar • covered 2-way 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.


Part number: **06008 37012 001 + COLOUR NO.**

Garment weight: approx. 640 g

Regular sizes: 46/48–58/60

Secondary sizes: 42/44 & 62/64

 **10** white

 **53** grey

Wearing comfort: ★ ★

2 attached
thigh pockets



..... Leg pocket on
the left as bellows
on side seam with
flap and covered
hook&loop fastener

HABETEX[®] Micronselect

Despite its very high density, this cleanroom fabric has a low fabric weight. Thus, HABETEX[®] Micronselect is very comfortable and offers high water vapour permeability. The manufacture of our fabric HABETEX[®] Micronselect is specially adapted to suit the specific requirements of cleanrooms.

MATERIAL: 98 % POLYESTER, 2 % CARBON ·

FABRIC WEIGHT: approx. 115 g/m² · **CHARACTERISTICS:** very low fabric weight ·

FIELDS OF APPLICATION: Automotive industry, paint shop

HABETEX[®]



1 | COVERALL WITH HOOD

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 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.

Part number: **06006 37024 001 41**

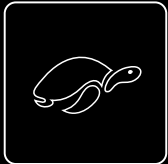
Garment weight: approx. 455 g

Regular sizes: 46/48–58/60

Secondary sizes: 42/44 & 62/64

royal

Wearing comfort: ★ ★



2 | COVERALL WITH HEAD COVER

Single-coloured • integrated cap, adjustable chin area and head width via snap fasteners • field of vision adjustable via elastic band • closure band with covered 2-way zip fastener • 2 inner front pockets with zip fastener • back ventilation via cape collar • raglan sleeves with thumb loop • leg hem with overshoe cap.

Part number: **06006 37032 000 + COLOUR NO.**

Garment weight: approx. 480 g

Regular sizes: 46/48–58/60

Secondary sizes: 42/44 & 62/64

■ **58** anthracite

□ **10** white

■ **41** royal

Wearing comfort: ★ ★

Leg hem with
overshoe cap

Raglan sleeves

3 | MEN'S COAT

Single-coloured • standing board • closure band with covered 2-way zip fastener • 1 front pocket on the left • 1 inner front pocket on the right • 2 side pockets • raglan sleeves with snap fasteners for adjustment.

Part number: **06006 47010 000 10**

Garment weight: approx. 335 g

Regular sizes: 46/48–58/60

Secondary sizes: 42/44 & 62/64

□ white

Wearing comfort: ★ ★



HABETEX® Micronknit

Comfortable and functional: This very soft and comfortable cleanroom fabric is used especially in paint shops. This underwear is the perfect system complement for our other cleanroom garments.

MATERIAL: 100 % POLYESTER with fibre look · **FABRIC WEIGHT:** approx. 190 g/m² ·
CHARACTERISTICS: no fluff abrasion, soft touch, shape-retaining, easy to clean ·
FIELDS OF APPLICATION: Automotive industry, paint shop

HABETEX®



Comfortable neck cuff

1 | T-SHIRT

Single-coloured · neck cuff made of elastic rib knitwear · comfortable short-sleeve width · hem seam as two-needle stitching.

Part number: **06018 86000 000 + COLOUR NO.**

Garment weight: approx. 220 g

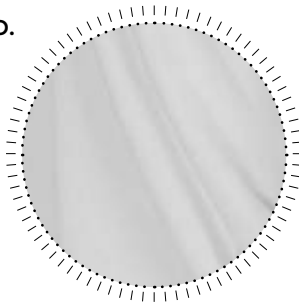
Regular sizes: Unisex S–XL

Secondary sizes: Unisex XS, XXL, XXXL

☐ **10** white

■ **50** silver grey

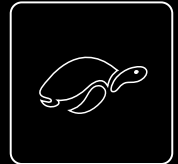
Wearing comfort: ★ ★



Very soft and light-weight material

ACCESSORIES CLEANROOM

CLEANROOM
& DUST



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.

1 | HEAD COVER

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

Part number: **06008 77000 000 50**
Material: **98 % Polyester, 2 % Carbon**
Grammage: approx. 150 g/m² · Garment weight: approx. 55 g
Sizes: 0/54-5/64
■ silver grey

Part number: **06015 77000 000 47**
Material: **72 % Viscose, 28 % Polyester**
Grammage: approx. 105 g/m² · Garment weight: approx. 40 g
Sizes: 0/54-5/64
■ light blue

Part number: **06013 77005 000 53**
Material: **100 % Viscose**
Grammage: approx. 135 g/m² · Garment weight: approx. 70 g
One size
■ grey
Wearing comfort: ★ ★



Field of vision with elastic band all round

2 | VISOR CAP

Single-coloured • visor made of reinforced material • 2 lateral separation seams • elastic band centrally on the back • hem reinforced by PES rep ribbon.

Part number: **06008 77002 000 53**
Material: **98 % Polyester, 2 % Carbon**
Grammage: approx. 150 g/m² · Garment weight: approx. 35 g
■ grey

Part number: **06015 77002 000 + COLOUR NO.**
Material: **72 % Viscose, 28 % Polyester**
Grammage: approx. 105 g/m² · Garment weight: approx. 30 g
■ 47 light blue
■ 53 grey

Sizes: 1-3
Wearing comfort: ★ ★



Elastic band centrally on the back

3 | GLOVES

Packaging unit: 10 pairs

Model Hamburg:

Uncoated, with knitted cuffs

Part number: **08009 76004 000 10**
Material: **100 % Nylon**
Garment weight: approx. 20 g
□ white
Sizes: S-XL



Hamburg

4 | GLOVES "COTTON"



Packaging unit: 12 pairs/bag

Part number: **08009 76007 000 10**
Material: **100 % Cotton** · uncoated
Garment weight: approx. 25 g
□ white
Sizes: 6-12

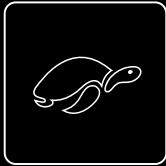




OVERVIEW PRODUCT LINES



| | Product Line | Fabric Composition Upper material | Fabric weight (approx. ... g/m ²) | Retro Reflective |  ISO 30023 |  IEC 61482-2 |
|------------------------|--|---|--|---------------------|--|--|
| ARC & ENERGY | INDURA® UltraSoft® | 88% CO, 12% PA | 340 | | Dryer | |
| | INDURA® UltraSoft® knit | 88% CO, 12% PA | 220 | | | |
| | HB-SecureAllround® | 75% CO, 24% PES, 1% Carbon, FC-Equipment | 360 | ✓ | Dryer | |
| | HB-FlameSoft® | 87% CO, 12% PA, 1% Carbon | 345 + 260 | ✓ | Dryer | |
| | | 87% CO, 12% PA, 1% Carbon | 280 | | Dryer | |
| | HB-ArcSelect | 87% CO, 12% PA, 1% Carbon | 345 + 260 | ✓ | | APC 1/2 |
| | HB-4arc® | 87% CO, 12% PA, 1% Carbon | 390 | | Dryer | |
| | HB-ArcPro | 50% CO, 39% MAC, 10% CV, 1% Carbon | 295 + 175 | ✓ | Dryer+Finisher | |
| | HB-MODarc® | 55% MAC, 43% CO, 2% Carbon | 275 + 175 | | | APC 1/2 |
| | HB-MODarc + Reflective® | 55% MAC, 43% CO, 2% Carbon | 275 + 175 | ✓ | | APC 1/2 |
| | HB-MODarc & vis® | 55% MAC, 43% CO, 2% Carbon | 275 + 175 | ✓ | | APC 1/2 |
| | | 54% MAC, 44% CO, 2% Carbon | 215 | | | APC 1 |
| | HB-ArcClassic & Vis | 31% PES, 28% MAC, 20% AR, 20% CV, 1% Carbon | 320 | ✓ | Dryer | APC 1 |
| | NOMEX® Viscose | 50% CV, 49% AR, 1% Carbon | 260 | ✓ | | |
| NOMEX® Comfort | 98% AR, 2% Carbon | 260 | | | | |
| | | 185 | | | | |
| | INOTEC® Arc & Energy | 98% AR, 2% Carbon | 260 + 180 | ✓ | Dryer | |
| HEAT, FLAME & SPLASHES | HABETEX® organic | 54% MAC, 44% CO, 2% Carbon | 180 | | | APC 1 |
| | PROBAN® | 100% CO | 470 | | | |
| | | | 380 | | | |
| | | | 320 | | | |
| | SECAN® Plus | 100% CO | 395 | | Dryer | |
| | | | 330 | | | |
| | SECAN® Securo | 98% CO, 2% Carbon | 410 | | | |
| | | | 460 | | | |
| | SECAN® Plus & KEVLAR® | 100% CO / 100% AR | 410 + 220 | | | |
| | HB-4welders® 2.0 | 89% CO, 10% PA, 1% Carbon | 390 | | Dryer | APC 1 |
| | MARLAN | 50% CV FR, 30% WO, 20% PA | 365 | | | |
| | HB-FluidMetal Pro | 50% CO, 39% MAC, 10% CV, 1% Carbon | 340 | | Dryer+Finisher | |
| | | 52% CO, 37% MAC, 10% CV, 1% Carbon | 430 | | Dryer+Finisher | |
| | VINEX® | 85% Vinylal, 15% Modal | 390 | | | APC 1 |
| | | | 285 | | | |
| | Titan | 60% CV, 40% AR | 245 | | Dryer+Finisher | |
| | NOMEX® III | 99% AR, 1% Metal | 260 + 190 | | | |
| | HB-Cement Pro | 70% PA, 30% AR | 300 | | | |
| TEMPEX® TREME HEAT | | | | | | |
| CK-12/Z ⁴⁾ | 70% Preox, 30% AR | 360 | | | | |
| AW-1/Y ⁴⁾ | 100% AR | 420 | | | | |
| KF-3/Z ⁴⁾ | 100% para-aramide | 475 | | | | |
| KF-3/ZF ⁴⁾ | 100% para-aramide | 480 | | | | |
| KF-4/Z ⁴⁾ | 51% Glass, 49% para-aramide | 690 | | | | |
| HIVIS & WEATHER | HB-MultiPro Fleece FR | 48% MAC, 32% CO, 18% PES, 2% Carbon | 360 | | | |
| | Innerfleece FR | 48% MAC, 32% CO, 18% PES, 2% Carbon | 360 | | | |
| | Fleecejacket HI-VISION® FR | 48% MAC, 32% CO, 18% PES, 2% Carbon | 360 | ✓ | | APC 1 |
| | Fleecejacket pinViz FR | 48% MAC, 32% CO, 18% PES, 2% Carbon | 360 | | | APC 1 |
| | HI-VISION® FR Softshell | | | | | |
| | fluorescent orange/yellow | 40% MAC, 15% CO, 20% PES, 12% AR, 12% CV, 1% Carbon | 540 | ✓ | | |
| | INOTEC® Fire & Vis Short Parka | 55% MAC, 43% CO, 2% Carbon, with Liner | 275 | ✓ | | |
| | INOTEC® Fire & Vis Parka | 55% MAC, 43% CO, 2% Carbon, with Liner | 275 | ✓ | | APC 2 |
| | HB-MultiPro FR® Parka/Short Parka | 31% PES, 28% MAC, 20% AR, 20 % CV, 1% Carbon | 320 | ✓ | | |
| | HB-MultiPro FR® Bib and brace trousers | 31% PES, 28% MAC, 20% AR, 20 % CV, 1% Carbon | 320 | ✓ | | |
| | INOTEC® Fire & Rain | 98% AR, 2% Carbon, with Liner | 260 | ✓ | | |
| | HI-VISION® FR Parka | | | | | |
| | fluorescent yellow | 55% MAC, 43% CO, 2% Carbon, PU-Membrane | 300 | ✓ | | APC 2 |

1) Blouson + Trousers or Bib and brace trousers worn together. 2) Does not apply to blouson and trousers. 3) Applies to two-coloured overall. 4) No emblems or embroideries allowed. 5) Embroideries are allowed. 6) Reflective ribbon. 7) Reflective piping.

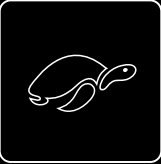


| IEC 61482-2 | EN ISO 11611 | EN ISO 11612 | EN 1149-5 | EN 13034 | EN ISO 20471 | EN 343 | EN 13758-2 | EN 14058 | EN 342 | EN 61340-5-1 | EN 15614 | MULTI-RISK | 21 TO WEAR® |
|-------------|--------------|-------------------|-----------|----------|-----------------------|---------|------------|----------|---------|--------------|----------|------------|-------------|
| | Class 1 | A/B1/C1/E3 | | | | | | | | | | | |
| | Class 1 | A1/B1/C1 | | | | | | | | | | | |
| | Class 1 | A/B1/C1/E2/F1 | ✓ | ✓ | | | | | | | | ✓ | ✓ |
| | Class 1/2 | A/B1/C1/F1 | ✓ | | | | | | | | | ✓ | ✓ |
| | Class 1 | A/B1/C1/E1/F1 | ✓ | | | | | | | | | ✓ | |
| | Class 1 A1 | A1/B1/C1/E2/F1 | ✓ | | | | | | | | | ✓ | |
| | Class 2 | A/B1/C1/F1 | ✓ | | | | | | | | | ✓ | ✓ |
| | Class 1/2 | A/B1/C1/D1/E1/F1 | ✓ | | | | | | | | | ✓ | |
| | Class 1 | A/B1/C1/F1 | ✓ | Type 6 | | | | | | | | ✓ | ✓ |
| | Class 1 | A/B1/C1/F1 | ✓ | Type 6 | | | | | | | | ✓ | ✓ |
| | Class 1 | A/B1/C1/F1 | ✓ | Type 6 | Class 3 ¹⁾ | | | | | | | ✓ | ✓ |
| | Class 1 | A/B1/C1/F1 | ✓ | Type 6 | Class 2 | | | | | | | ✓ | ✓ |
| | Class 1 | A/B1/C1/F1 | ✓ | Type 6 | Class 3 ¹⁾ | | | | | | | ✓ | ✓ |
| | Class 1 | A1/B1/C1/E1/F1 | ✓ | Type 6 | Class 3 ¹⁾ | | | | | | | ✓ | ✓ |
| | Class 1 A1 | A1/B1/C1 | ✓ | | | | | | | | | ✓ | ✓ |
| | Class 1 | A1/B1/C1/F1 | ✓ | | | | | | | | | | |
| | Class 1/2 | A1/B1/C1/F1 | ✓ | | | | | | | | | | |
| | | A/B1/C1/F1 | ✓ | | | | | | | | | | |
| | Class 2 A1 | A1/B1/C1/E3/F1 | | | | | | | | | | | |
| | Class 2 A1 | A1/B1/C1/E2/F1 | | | | | | | | | | | |
| | Class 1 | A1/B1/C1 | | | | | | | | | | | |
| | Class 2 | A/B1/C1/E2/F1 | | | | | | | | | | | |
| | Class 1 | A/B1/C1/E2/F1 | | | | | | | | | | | |
| | Class 1 | A/B1/C1/E3/F1 | ✓ | | | | | | | | | | |
| | Class 2 | A/B1/C1/E3/F1 | ✓ | | | | | | | | | ✓ | ✓ |
| | Class 2 | A/B1/C1/E2/F1 | | | | | | | | | | | |
| | Class 2 | A/B1/C1/E3/F1 | ✓ | | | | | | | | | ✓ | ✓ |
| | Class 1 | A1/B1/C1/D3/E3/F1 | | | | | | | | | | | |
| | Class 1 A1 | A/B1/C1/D2/E2/F1 | ✓ | | | | | | | | | ✓ | |
| | Class 1 | A/B1/C1/D3/E3/F1 | ✓ | | | | | | | | | ✓ | |
| | | A/B1/C1/D3/E3 | | | | | | | | | | | |
| | | A/B1/C1/D1/E1/F1 | | | | | | | | | | | |
| | Class 1 | A1/B1/C1/E1 | | | | | | | | | | | |
| | | A1/B1/C1/F1 | ✓ | | | | | | | | | | |
| | | A1/B1/C1/E1 | | | | | | | | | | | |
| | | A1/B1/C3/D3/E3/F1 | | | | | | | | | | | |
| | | A1/B1/C4/D3/E3/F2 | | | | | | | | | | | |
| | | A1/B1/C3/D3/E3/F1 | | | | | | | | | | | |
| | | A1/B1/C3/D3/E3/F1 | | | | | | | | | | | |
| | | A1/B1/C3/D3/E3/F1 | | | | | | | | | | | |
| | Class 1/2 | A1/B1/C2/F1 | | | | | | | Class 1 | | | ✓ | |
| | | A1/B1/C2/F1 | ✓ | | Class 2 | | | | Class 1 | | | ✓ | ✓ |
| | | A1/B1/C2/F1 | ✓ | | | | | | Class 1 | | | ✓ | ✓ |
| | Class 2 | A1/B1/C2/F2 | ✓ | | Class 2 | | | | | | | ✓ | ✓ |
| | Class 2 | A/B1/C1/E1/F1 | ✓ | Type 6 | | Cl. 3/3 | | | | | | ✓ | |
| | | A/B1/C1/E1/F1 | ✓ | Type 6 | Class 2 | Cl. 3/3 | | | | | | ✓ | |
| | Class 2 | A1/B1/C1/E1/F1 | ✓ | Type 6 | Class 3 | Cl. 3/3 | | | | | | ✓ | |
| | Class 2 | A1/B1/C1/E1/F1 | ✓ | Type 6 | Class 2 | Cl. 3/3 | | | | | | ✓ | |
| | Class 2 | A1/B1/C1/F1 | ✓ | | | Cl. 3/3 | | | | | | ✓ | |
| | Class 1 | A1/B1/C1/F1 | ✓ | Type 6 | Class 3 | Cl. 3/4 | | | | | | ✓ | ✓ |

OVERVIEW PRODUCT LINES

| | Product Line | Fabric Composition Upper material | Fabric weight (approx. ... g/m ²) | Retro Reflective |  ISO 30023 |  IEC 61482-2 |
|--------------------------------------|---|---|--|---------------------|--|--|
| HIVIS & WEATHER | HI-VISION® FR Trousers | 55% MAC, 43% CO, 2% Carbon, PU-Membrane | 300 | | | APC 1 |
| | HI-VISION® FR Reflective Vest | 55% MAC, 43% CO, 2% Carbon | 275 | ✓ | | |
| | HI-VISION® Basic Reflective Shirts | 55% CO, 45% PES | 185 | ✓ | | |
| | HI-VISION® Basic Fleece | 100% PES | 258 | | | |
| | HI-VISION® Basic Parka Antistatic | 99% PES, 1% Carbon | 150 | ✓ | | |
| | HI-VISION® Basic Parka | 100% PES | 195 | ✓ | | |
| | HI-VISION® Basic Jacket | 100% PES | 155 | ✓ | | |
| | HI-VISION® Basic Bib and brace trousers | 100% PES | 155 | ✓ | | |
| HB-StormBase® Parka + Brace trousers | 99% PES, 1% Carbon | 150 | ✓ | | | |
| CHEMICALS | HB-CHEMstandard | 100% PA, FC-Equipment | 270 | | | |
| | HB-CHEMclassic | 100% PA, FC-Equipment | 260 | | | |
| | HB-CHEMcomfort antistatic | 99% PES, 1% Carbon, FC-Equipment | 240 | | Dryer+Finisher | |
| FLAMMGARD | CLASSIC | 49% AR, 50 % VISCOSE FR, 1% Carbon | 300 | | | |
| | NORTH RHINE-WESTFALIA | 59% AR, 40 % VISCOSE FR, 1% Carbon | 260 | | | |
| | BADEN-WÜRTTEMBERG | 59% AR, 40% VISCOSE FR, 1% Carbon | 260 | | | |
| | SOFTSHELL | 84% PES, 16% PU | 250 | | | |
| | FLEECE | 100% PES | 240 | | | |
| | SAARLAND | 59% AR, 40% VISCOSE FR, 1% Carbon | 260 | | | |
| | TECHNICAL ASSISTANCE/DGUV | 49% AR, 50 % VISCOSE FR, 1% Carbon | 300 | | | |
| | AREA FIRE FIGHTING | 54% MAC, 43% CLY, 2% Carbon | 325 | | | |
| COLD PROTECTION | TEMPEX® COLD STORE CLASSIC 2.0 ⁵⁾ | 100% PA | 515 | ✓ ⁶⁾ | | |
| | TEMPEX® COLD STORE CLASSIC ⁵⁾ | 100% PA | 520 | ✓ ⁶⁾ | | |
| | TEMPEX® COLD STORE PLUS CLASSIC ⁵⁾ | | 645 | ✓ ⁶⁾ | | |
| | | | 560 | ✓ ⁶⁾ | | |
| | | | 630 | ✓ ⁶⁾ | | |
| | TEMPEX® COLD STORE HYGIENE ⁵⁾ | 100% PA | 515 | | | |
| | TEMPEX® COLD STORE PLUS COMFORT ⁵⁾ | 100% PA | 545/645 | ✓ ⁷⁾ | | |
| | TEMPEX® CHILLROOM CLASSIC ⁵⁾ | 100% PA | 415 | ✓ ⁶⁾ | | |
| | TEMPEX® CHILLROOM COMFORT ⁵⁾ | 100% PA | 445 | ✓ ⁷⁾ | | |
| | TEMPEX® CHILLROOM HYGIENE ⁵⁾ | 100% PA | 415 | | | |
| | TEMPEX® CHILLROOM CONTOUR ⁵⁾ | 100% PA | 415 | ✓ ⁷⁾ | | |
| | TEMPEX® THERMO + THERMO ERGOPLUS | 100% PA | 245 | | | |
| TEMPEX® COLD PROTECTION Fleece | 100% PES | 265/155 | | | | |
| ESD | CONDUCTEX® | 75% PES, 23% CO, 2% Carbon | 130 | | | |
| | CLEANTEX® | 98% PES, 2% Carbon | 100 | | | |
| | CONDUCTEX® Cotton Knit | 95% CO, 5% Carbon | 160 | | | |
| | | | 300 | | | |
| | CONDUCTEX® Pro Knit | 48% CO, 48% PES, 4% Carbon | 170 | | | |
| | | 60% PES, 33% CO, 7% Carbon | 305 | | | |
| 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 | | | |
| | HABETEX® Micronknit | 100% PES | 190 | | | |

1) Blouson + Trousers or Bib and brace trousers worn together. 2) Does not apply to blouson and trousers. 3) Applies to two-coloured overall.
4) No emblems or embroideries allowed. 5) Embroideries are allowed. 6) Reflective ribbon. 7) Reflective piping.



| 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® |
|-------------|--------------|---|-----------|----------------------------|--|---|------------|----------|--|---------------------------------|----------|------------|-----------------|
| | Class 1 A1 | A1/B1/C1 A/B1/C1/F1 | ✓ ✓ | Type 6 | Class 1 Class 2 Class 2 | Cl. 3/4 | ✓ | | | | | ✓ | ✓ ✓ |
| | | | ✓ | | Class 2 Class 2 Class 2 Class 1 | Cl. 3/3 Cl. 3/2 Cl. 3/3 Cl. 3/3 Cl. 3/3 | | | | | | | |
| | | | ✓ | Type 6 Type 6 Type 6 | | | | | | | | | ✓ |
| | | A1/A2/B1/C1 A1/A2/B1/C1 A1/A2/B1/C1 | | | | | | | | | | | |
| | | A1/A2/B1/C1 A1/A2/B1/C1 A1/A2/B1/C1 | | | | | | | ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓ | | ✓ | | |
| | | | | | | | | | | ✓ ✓ ✓ ✓ ✓ ✓ ✓ | | | ✓ ²⁾ |
| | | | | | | | | | | | | | ✓ ³⁾ |

▶ 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 | OR 1 RULER POCKET | | BLACK | MEDIUM GREY | DARK BLUE | ROYAL NAVY | RED | YELLOW | |
| JACKET | <input type="checkbox"/> | | | | YOKE | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | |
| | | | | | TORSO/ARMS | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input 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"/> | OR <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"/> | |
| DUNGAREES | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | OR <input type="checkbox"/> | LEGS | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input 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"/> | OR <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





The following versions of our HB-FlameSoft®, HB-MODarc® and HB-MODarc + Reflective® items 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.

| Item number | Designation | Material | Colour | Weight | Standards |
|--|------------------------|---|-----------------|---|--|
| HB-MODarc®    | | | | | |
| 01072 10107 034 2188 | Blouson 1-ply 4KA | 55% Cotton, 45% 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 | | | approx. 275 g/m ² +approx. 175 g/m ² | |
| HB-MODarc + Reflective®    | | | | | |
| 01072 10107 039 2188 | Blouson 1-ply 4KA | 55% Cotton, 45% Modacrylic, 2% Carbon | black/grey | approx. 275 g/m 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 20074 009 2251 | Trousers 1-ply 4KA | | grey/black | | |
| 01072 50055 009 2251 | Dungarees 1-ply 4kA | | | | |
| 01072 10107 038 2188 | Blouson 2-ply 7KA | | black/grey | approx. 275 g/m ² +approx. 175 g/m 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 10107 038 2041 | Trousers 2-ply 7KA | | navy/royal | | |
| 01072 20074 008 2251 | Dungarees 1-ply 4KA | | grey/black | | |
| 01072 50055 008 2251 | Dungarees 2-ply 7KA | | navy | | |
| HB-FlameSoft® with knee pockets  | | | | | |
| 01228 20006 023 2041 | Trousers 1-ply 4KA | 87% Cotton, 12% Polyamide, 1% Carbon | navy/royal | approx. 345 g/m ² | IEC 61482-2 Class 1 EN ISO 11612 A1+A2/B1/C1/F1 EN ISO 11611 Class 1 A1+A2 EN 1149-5 |
| 01228 20006 023 2071 | Trousers 1-ply 4KA | | medium grey/red | | |
| 01228 50020 020 2041 | Dungarees 1-ply 4KA | | navy/royal | | |
| 01228 50020 020 2071 | Dungarees 1-ply 4KA | | medium grey/red | approx. 345 g/m ² +approx. 260 g/m ² | IEC 61482-2 Class 2 (front of trouser legs) EN ISO 11612 A1+A2/B1/C1/F1 EN ISO 11611 Class 1 A1+A2 EN 1149-5 |
| 01228 20006 017 2041 | Trousers 2-ply 7KA | | navy/royal | | |
| 01228 20006 017 2071 | Trousers 2-ply 7KA | | medium grey/red | | |
| 01228 50020 009 2041 | Dungarees 2-ply 7KA | | navy/royal | | |
| 01228 50020 009 2071 | Dungarees 2-ply 7KA | medium grey/red | | | |



HB-MODarc + Reflective®
blouson, trousers and dungarees
1- and 2-ply version are now also
available with reflective stripes



HB-FlameSoft®
trousers and dungarees
1- and 2-ply version are now
available with knee pockets.

21 TO WEAR

- 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

▶ TEMPEX®-TREME HEAT

PRODUCT VARIANTS OF OUR MODULAR HEAT PROTECTION SYSTEM

Here you will find all relevant tables and information concerning our TEMPEX® TREME-Heat modular system. Choose between many different features and product variants. This modular clothing system enables you to put together your own personal heat protection equipment according to your individual requirements at the work place.

The following products will be, in case they are not available on stock, supplied within our high-speed delivery service 21 TO WEAR®. First order starting with 1 piece and delivery time approx. 21 days*. Requirements of more than 30 pieces will normally be produced separately, the production time then will be approx. 6-8 weeks from receipt of order.

MATERIAL VARIANTS OF THE MODULAR HEAT PROTECTION SYSTEM

The following table shows the different materials and indicates the material name, the material composition, the material weight and the certified fabric's standards.

| Part number | Material name | Material | Material weight | Standards |
|----------------------|----------------|--------------------------|-----------------|-----------------------------------|
| 120xx = 12014 | CK-12/Z | 70 % Preox, 30 % Aramide | approx. 360 g | EN ISO 11612 A1/B1/C3/D3/E3/F1 |
| 120xx = 12008 | AW-1/Y | 100 % Aramide | approx. 420 g | EN ISO 11612 A1/B1/C4/D3/E3/F2 |
| 12003 | KF-3/Z | 100 % para-aramide | approx. 475 g | EN ISO 11612 A1/B1/C3/D3/E3/F1 |

FOUNDRY COAT (see pages 90–92)

| 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® |

Length variants

| Part number | Length of the back |
|--------------|--------------------|
| 41030 | 130 cm |
| 41040 | 140 cm |

Length variants

| Part number | Length of the back |
|----------------------|--------------------|
| 41yyy = 41110 | 110 cm |
| 41yyy = 41120 | 120 cm |
| 41yyy = 41130 | 130 cm |
| 41yyy = 41140 | 140 cm |

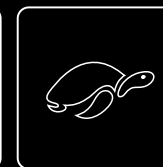
Order example:

If you like to order the COMFORT Plus foundry coat 70% Preox, 30% Aramide, length 130 cm, covered snap fastening, arm and back ventilation and walking pleat, the result will be the following part number:

12014 41130 122 15

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

MODULAR SYSTEM



HEAT PROTECTION JACKET (see pages 90–92)

| 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

| Part number | Length of the back |
|---------------|--------------------|
| 110yy = 11080 | 80 cm |
| 110yy = 11090 | 90 cm |
| 110yy = 11000 | 100 cm |

Length variants

| Part number | Length of the back |
|---------------|--------------------|
| 111yy = 11180 | 80 cm |
| 111yy = 11190 | 90 cm |
| 111yy = 11100 | 100cm |

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 page 93)

| Product line | Part number | Length | Closure | On stock |
|----------------------------------|--------------------|--------|-------------|-------------|
| 1 KF-3/Z | 12003 7H010 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 page 94)

| Product line | Part number | Length | Closure | On stock |
|----------------------------------|--------------------|--------|-----------|-------------|
| 1 KF-3/Z | 12003 7H011 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 7H012 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® |
| 3 COMFORT Plus CK-12/Z AW-1/Y | 12008 71001 002 15 | Protective hood with shoulder and chest protection | ✓ | ✓ |
| | 12014 71001 002 15 | Protective hood with shoulder and chest protection | ✓ | 21 TO WEAR® |

STANDARDS



IEC 61482-2

IEC 61482-2:2009 (preceding standards: EN 61482-1-2 and ENV 50354)

Protective clothing against the thermal hazards of an electric arc

This type of protective clothing is intended to protect the wearer against thermal effects of a defined electric fault arc according to the tested protection level e.g. protection class.



The Standard defines general requirements and requires an electric arc flash test. The material and garments tests are carried out either according to IEC 61482-1-1 (determination of the ATPV value) or IEC 6148-1-2 ("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 Typ 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, snowflakes), 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.

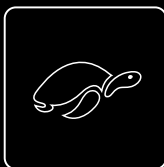
This standard defines the test methods and performance requirements for protective clothing against cold of -5 °C or lower. It tests the thermal insulation and air permeability of the clothing. The test result states how long the wearer of the protective clothing can remain at certain temperatures when stationary or when performing tasks involving small or moderate amounts of movement. The classification is divided into five classes, where class 1 is the weakest performance and class 5 is the best performance. Insulation values TEMPEX® Cold Protection: Please note our insulation values table for our TEMPEX® cold protective clothing on page 231. 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.

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.

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."

Performance levels for protective gloves against thermal risks according to EN 407

| 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."

EMBLEMS AND PATCHES

ATTACHMENT OF EMBLEMS AND PATCHES ON CERTIFIED CLOTHING

PPE is part of a uniform corporate identity. On demand, we correspondingly provide your garments with embroidered logos, emblems or (reflective) patches, representing your company in accordance with your own CI. This is done in accordance with the requirements of the certification bodies so that full FR protection of the garments will be ensured.



| | Concerned standards | Jackets, overalls, coats and shirts | | Bib and brace trousers | Notes |
|-----------------------------|--|---|--|--|--|
| | | Attachment possibilities Back part | Attachment possibilities Front part | Attachment possibilities | |
| EMBROIDERED EMBLEMS | IEC 61482 ¹ EN 11612 A, B, C EN 11612 Code E ³ EN 11611 EN 1149-5 EN 13034 Typ 6 EN ISO 20471 ⁴ | Recommendation: Above yoke separation or at shoulder blade. > Recommended size: 238 cm ² | Recommendation: On front pocket. > Recommended size: 72 cm ² | Recommendation: On front pocket. > Recommended size: 72 cm ² | Embroidery yarn and background material need to be FR, except pure chemical protection garments (EN 13034 Type 6). EN 1149-5: Non-conductive emblems have to be attached so well that they cannot peel off. |
| DIRECT EMBROIDERY FR | IEC 61482 ¹ EN 11612 A, B, C, E EN 11611 EN 13034 Typ 6 EN 1149-5 EN ISO 20471 ⁴ | Recommendation: Above yoke separation or at shoulder blade. Material must be doubled on the inner side. > Recommended size: 134 cm ² | Recommendation: On front pocket. > Recommended size: 31 cm ² | Recommendation: On front pocket. > Recommended size: 31 cm ² | Embroidery yarn has to be made of FR material, except pure chemical protection garments (EN 13034 Type 6). EN 1149-5: Explicit test of FR direct embroidery has to be done with IEC 61482-2 and EN 11612. |
| PATCHES FR | IEC 61482 ¹ EN 11612 A, B, C, E EN 11611 EN 13034 Typ 6 EN 1149-5 EN ISO 20471 ⁴ | On free 1-ply area ² > Recommended size: 165 cm ² | On free 1-ply area ² > Recommended size: 37 cm ² | On free 1-ply area ² > Recommended size: 37 cm ² | |
| REFLECTIVE PATCH FR | IEC 61482 ¹ EN 11612 A, B, C, E EN 11611 EN 13034 Type 6 EN 1149-5 EN ISO 20471 ⁴ | On free 1-ply area ² > Recommended size: 183 cm ² | On free 1-ply area ² > Recommended size: 29 cm ² | On free 1-ply area ² > Recommended size: 29 cm ² | |

NOTES ¹ Class 2 requires ballistic testing. ² In case of cotton FR, separate test should be performed. ³ With EN 11612 Code E, emblems have to be attached conform to the roof tile principle, meaning at the seam border. ⁴ EN ISO 20471 require explicit area testing for all emblems, embroideries and patches.

ATTENTION! Patches should not be attached retroactively by customer but by us in order to not endanger compliance with standards.

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 / $\frac{m^2 \cdot K}{W}$ R-value | | Standing activity 75 W/m ² | | | | Activity with low movement 115 W/m ² | | | | Activity with regular movement 170 W/m ² | | | |
|---------------------------|------------------|------------------------------------|--|------------|--|-------|-------|-------|--|-------|-------|-------|--|-------|-------|-------|
| | | | | | Air speeds | | | | Air speeds | | | | Air speeds | | | |
| | | | | | 0,4 m/s | | 3 m/s | | 0,4 m/s | | 3 m/s | | 0,4 m/s | | 3 m/s | |
| | | | | | 8 h | 1 h | 8 h | 1 h | 8 h | 1 h | 8 h | 1 h | 8 h | 1 h | 8 h | 1 h |
| CLASSIC 2.0 COLD STORE | 01174 1K014 000 | Men's order picker jacket | 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 | Men's order picker trousers | 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' order picker jacket | 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 0000 | Ladies' order picker trousers | 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 |
| CLASSIC COLD STORE | 09028 1K009 000 | Order picker jacket Teddy | 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 | Order picker trousers Teddy | 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 |
| | 09045 1K000 000 | Men's order picker jacket | 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 | Men's order picker trousers | 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' order picker jacket | 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' order picker trousers | 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 | Order picker coverall | 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 | 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 000 | Forklift driver jacket long-term | 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 | Forklift driver trousers long-term | 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 1K012 001 | Forklift driver jacket | 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 | Forklift driver trousers | 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 |
| COMFORT COLD STORE | 01183 1K005 000 | Men's order picker jacket | 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 | Men's order picker trousers | 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' order picker jacket | 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' order picker trousers | 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 1K013 000 | Forklift driver jacket | 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 | Forklift driver trousers | 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 3K001 000 | Order picker coverall | 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 | 0.274 | (R) AP 2 x | 12°C | -1°C | 19°C | 6°C | 2°C | -13°C | 8°C | -4°C | -13°C | -30°C | -3°C | -17°C |
| | 01183 1K018 000 | Forklift driver jacket long-term | 0.511 | (B) AP 2 x | -3°C | -23°C | 5°C | -12°C | -21°C | -42°C | -9°C | -28°C | -45°C | -49°C | -29°C | -48°C |
| | 01183 2K010 000 | Forklift driver trousers | 0.511 | (B) AP 2 x | -3°C | -23°C | 5°C | -12°C | -21°C | -42°C | -9°C | -28°C | -45°C | -49°C | -29°C | -48°C |
| HYGIENE COLD STORE | 01174 1K005 001 | Order picker jacket | 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 | Order picker trousers | 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 | 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 clothing is classified in category II of the PPE regulation (EU) 2016/425. Therefore it is not allowed to wear it in temperatures below -49°C.

▶ SIZES AND CARE

GERMAN SIZES TO INCHES

| MEN | | | | | | | | | | WOMEN | | | | | | | | | | |
|--------|--------------|-------------|--------------|-------------|--------------|-------------|----------|---------------------|-------------|---------------------|-------------|---------------------|---------------|--------------------|-------------|--------|-------------|-----|-----|----|
| MEN | JACKET | | | | | | TROUSERS | | | | | | CLASSIC SHIRT | | WOMEN | | | | | |
| | short | | regular | | long | | | short | | regular | | long | | | | UNISEX | german size | | | |
| UNISEX | chest [inch] | german size | chest [inch] | german size | chest [inch] | german size | UNISEX | waist/length [inch] | german size | waist/length [inch] | german size | waist/length [inch] | german size | collar size [inch] | german size | UNISEX | german size | | | |
| S | 36" S | 23 | 36" R | 46 | 36" L | 94 | S | 28" / 29" | 21 | 28" / 31" | 42 | 28" / 33" | 88 | 14" | 35/36 | 2XS | 6" | 32 | | |
| M | 38" S | 24 | 38" R | 48 | 38" L | 98 | | 29" / 29" | 22 | 29" / 31" | 44 | 29" / 33" | 90 | 15" | 37/38 | | XS | 8" | 34 | |
| | 40" S | 25 | 40" R | 50 | 40" L | 102 | | 30" / 29" | 23 | 30" / 31" | 46 | 30" / 33" | 94 | 15,5" | 39/40 | | | S | 10" | 36 |
| L | 41" S | 26 | 41" R | 52 | 41" L | 106 | M | 32" / 29" | 24 | 32" / 31" | 48 | 32" / 33" | 98 | 16,5" | 41/42 | M | 12" | | 38 | |
| | 42" S | 27 | 42" R | 54 | 42" L | 110 | | 34" / 29" | 25 | 34" / 31" | 50 | 34" / 33" | 102 | 17" | 43/44 | | L | 14" | 40 | |
| XL | 44" S | 28 | 44" R | 56 | 44" L | 114 | L | 36" / 29" | 26 | 36" / 31" | 52 | 36" / 33" | 106 | 18" | 45/46 | S | | 16" | 42 | |
| 2XL | 46" S | 29 | 46" R | 58 | 46" L | 118 | XL | 38" / 29" | 27 | 38" / 31" | 54 | 38" / 33" | 110 | 19" | 47/48 | | M | 18" | 44 | |
| 3XL | 48" S | 30 | 48" R | 60 | 48" L | 122 | 2XL | 40" / 29" | 28 | 40" / 31" | 56 | 40" / 33" | 114 | 19,5" | 49/50 | L | | 20" | 46 | |
| | 50" S | 31 | 50" R | 62 | 50" L | 126 | 3XL | 42" / 29" | 29 | 42" / 31" | 58 | 42" / 33" | 118 | 20" | 51/52 | | XL | 22" | 48 | |
| | 52" S | 32 | 52" R | 64 | 52" L | 130 | | 44" / 29" | 30 | 44" / 31" | 60 | 44" / 33" | 122 | 21" | 53/54 | | | 2XL | 24" | 50 |
| | 56" S | 33 | 56" R | 66 | 56" L | 134 | | | | | | | 22" | 55/56 | | 26" | 52 | | | |
| | | | | | | | | | | | | | 23" | 57/58 | | 28" | 54 | | | |
| | | | | | | | | | | | | | 24" | 59/60 | | | | | | |

Note: Sizes of older models may correspondingly deviate from these values.

Regular and secondary sizes are indicated on the product pages in this catalogue.

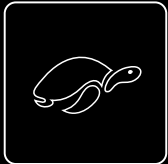
Regular sizes are available on stock. Secondary sizes are generally produced after receipt of the order.



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

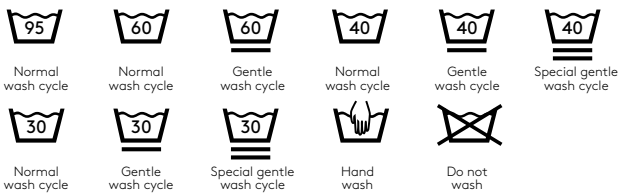
CUSTOMISED SIZES

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

Our TEMPEX® cold protection clothing is made of high-quality materials and always utilizes state-of-the-art technology. In order for you to be able to take advantage of your 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

▶ 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

Garments marked with this icon are 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.



READY TO WEAR

This collection can be configured individually (216 colour combinations, 12 equipment versions) and will be with you within 21 days.



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 50).



ERGONOMIC DESIGN

Product line with ergonomically optimised cut for more freedom of movement.



ORGANIC COTTON

Garments with this icon have been manufactured using organic cotton.

ATPV = Arc Thermal Performance Value

Arc performance value for the thermal incident energy limit and therefore for the protective performance against arc flashes, given in cal/cm² or kJ/m² = heat quantity per unit of area.

EBT50 Breakopen Treshold Energy

Arc performance value for the thermal incident energy limit and therefore for the protective performance against arc flashes given in cal/cm² or kJ/m² = heat quantity per unit of area. The EBT50 value is taken as the arc performance value when the material breaks before an ATPV value is reached.

Both values – ATPV and EBT50 – state the maximum load that the material/material structure can withstand in concrete terms. The higher the value is, the better the protection.

HAF = Heat Attenuation Factor

Alongside the arc performance values, the HAF – Heat Attenuation Factor – is also determined. This indicates the amount of energy blocked by the material and is expressed as a percentage.


4kA and 7kA/4kA

Our arc flash protective clothing is embroidered on the outside with "4 kA" or "7 kA/4 kA" so the wearer can tell straight away which version they have.

"4 kA" means that this garment offers Electric Arc Flash protection class 1.

"7 kA/4 kA" means that this garment offers Electric Arc Flash protection class 2 for the 2-ply parts (Front of jacket, sleeves and front of trousers).

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.



COLD STORE PLUS

Clothing for low-movement tasks at temperatures down to -49 °C



COLD STORE

Clothing for high-movement tasks at temperatures down to -49 °C



CHILLROOM

Clothing for work in moderately cold conditions

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