

GENERAL CATALOGUE 2019

PROTECTIVE WEAR

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



FB

TEMPEX



**PROTECTIVE
WEAR**

PHILOSOPHY

HB
PROTECTIVE
WEAR



ARC &
ENERGY



ARC FLASH PROTECTION

FLAME AND
WELDING PROTECTION

HEAT
FLAME &
SPLASHES



HIVIS &
WEATHER



REFLECTIVE CLOTHING AND
WEATHER PROTECTION

CHEMICAL PROTECTION

CHEMICALS



ESD
ELECTRO-
STATIC
DISCHARGE



ESD PRODUCT PROTECTION

CLEANROOM AND
DUST PROTECTION

CLEANROOM
& DUST



COLD
PROTECTION



COLD PROTECTION

DAY SHIFT WEAR
FOR FIREMEN

FLAMMGARD





▶ EDITORIAL

Dear Readers, Business Partners
and Customers,

21 April 2019 represents an important date for our industry, as it marks the end of the transitional period for the introduction of the new PPE Regulation (EU) 2016/425. This places greater responsibility on all economic players involved in the production and sale of PPE, including manufacturers, dealers, importers and textile service companies.

The new labelling requirements in particular, which even importers will be required to observe going forward, should ultimately improve consumer protection and increase transparency. This will allow customers in the EU to feel confident that they are purchasing certified PPE that complies with standards in an increasingly globalised market.

HB Protective Wear has been manufacturing its products in line with the requirements of the new regulation since 2017. It also goes without saying that we have been printing the necessary CE marking, the specification of the standard with issue date, and even the production order number on the sewn-in label for considerably longer. So you really can count on HB when it comes to transparency.



And innovation, too. Just take our “HB READY TO WEAR” service, for example. This concept, which is unique throughout Europe, allows even small and medium-sized companies to put together their own, individual PPE that complements their company colours and which is suited for industrial laundry.

Choose from four products of the HB-SecureAllround® product line in 216 colour combinations, as well as 12 equipment versions and 28 sizes. Put together, this amounts to over 1,000 possible combinations. Everything can even be configured online and delivered within 21 days. Visit www.hb-ready-to-wear.com for more information.

We have also significantly extended our range of Flammgard® day shift clothing for fire brigades. This now includes our new jackets for technical assistance, which feature meticulously manufactured reflective stripes in line with DGUV standards.

With all of this in mind, I hope you enjoy exploring our product range and wish you a safe working experience no matter where you are or what you're doing!
BE SAFE. WE CARE.

Sincerely,

Klaus Berthold

CEO
Owner of HB Protective Wear

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▶ NOT ONLY DO WE
PROTECT PEOPLE -





WE ALSO TAKE CARE OF NATURE.

As a leading manufacturer of protective clothing, HB Protective Wear has helped to ensure safety in the workplace for more than 65 years. We take responsibility not just for the quality of our products, but also for our employees and society.

By supporting a protection programme for the green sea turtle – our trademark and a symbol of protection – we have also helped to preserve our Earth’s biodiversity for many years.

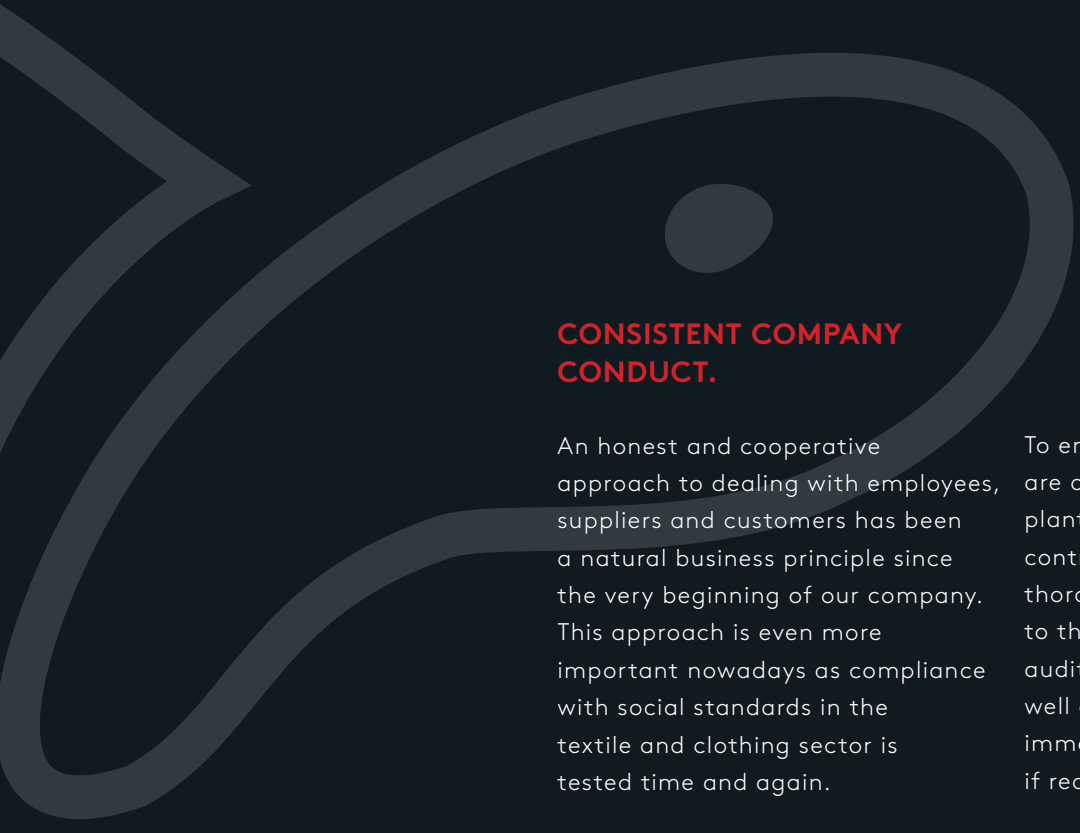


Our logo demonstrates our long-term connection to the sea turtle.



▶ OUR **VALUES**

ARE MORE THAN 65 YEARS



CONSISTENT COMPANY CONDUCT.

An honest and cooperative approach to dealing with employees, suppliers and customers has been a natural business principle since the very beginning of our company. This approach is even more important nowadays as compliance with social standards in the textile and clothing sector is tested time and again.

Our Code of Conduct defines internationally accepted cornerstones for our corporate conduct and therefore ensures that our products are produced under fair conditions everywhere.

To ensure that our specifications are adhered to by all the production plants, suppliers and their sub-contractors, we also carry out thorough social audits in addition to the usual product and process audits (with our customers as well on request) and initiate immediate improvement measures, if required.



OLD. BUT HAVEN'T AGED A BIT.



SOCIAL RESPONSIBILITY.

Motivated employees who identify with the company and its products are the best way of ensuring that our customers are always happy with our products. It is therefore no wonder that we pay special attention to their well-being. We encourage an open culture of discussion, ensure development opportunities and improve the compatibility of work and family with flexible work time arrangements and an in-house day care centre.

Our employees appreciate our efforts and we, in turn, are generally rewarded by their long-lasting loyalty, knowledge and experience. We demonstrate social commitment in a number of other ways too – for example, by supporting non-profit organisations in our region and by sponsoring charitable projects in our international locations. As part of our social responsibility, we also train a number of young people every year at our company headquarters in Thalhausen, Germany.

LOYALTY TO OUR REGION.

Our headquarters in Thalhausen form the hub of our production and logistics network and we still produce samples and urgent orders there today. We also have production locations in Bosnia-Herzegovina, Bulgaria, the Czech Republic, Macedonia and Armenia, as well as – to a small extent – in China. The crucial point is that we have built up a partnership over many years with all of our foreign production facilities – essential for maintaining our high quality standards.

▶ HOW DOES A **MARKET** PRODUCE ITS PRODUCTS?

FROM TRADITION TO INNOVATION.

We are the only manufacturer in Germany that exclusively develops and produces protective clothing. This means that we know how to do our job right! With an exemplary level of conformance to standards, highly specialised material and processing expertise and 100% manual final inspection for each product.

In order to ensure our expertise, we organise regular standards and fabric training sessions for our employees, participate actively in pertinent committees and cooperate with textile universities.

Furthermore, we consult closely with customers, suppliers and certification institutes to constantly refine the materials, protective function and comfort of our protective clothing. This results in products that make us the driving force in the PPE industry time and time again. For example, our high-visibility parka and softshell jacket were recognised for their innovative properties at the British Professional Clothing Awards.

QUALITY IN EVERY DETAIL.

Our quality standards start with the material selection process and go far beyond the functionality of our designs. Comprehensive technical tests, such as rip and load tests, guarantee the quality of the fabrics used, and proven procurement processes ensure that every required product component is actually available in stock. All our products combine high wear comfort with a lot of attention to practical details – whether you need to store work equipment or attach knee pads so that they fit perfectly. Our modern designs are impressive proof that ideal protection in the workplace and a fashionable look are not necessarily mutually exclusive.

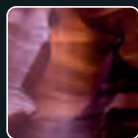
LEADER



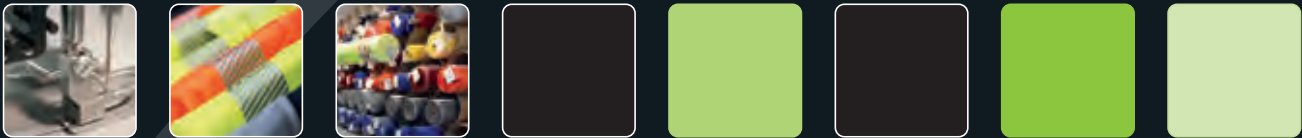
BETTER THAN EVERYONE ELSE.

SPECIAL REQUESTS ON A LARGE SCALE.

Thanks to our high production capacities and the connection of our foreign operations to our ERP system, we are flexible enough to respond to short-notice change requests. In fact, we do everything we possibly can to meet individual requirements for modern protective clothing – from implementing specific customer requests to adapting the clothing to the customer's design guidelines in line with relevant standards.



▷ OUR PROTECTIVE



OUR QUALITY LABEL: TURTLE TESTED®.

In order to consistently produce quality that exceeds standards, we subject random samples of the raw material to an in-depth inspection at our headquarters in Thalhausen. Only then do we deliver the rolls of fabric to the individual production facilities. At the end of the production process, the finished articles are also subjected to a 100% manual final inspection. In addition, we also perform a two-stage manual Acceptable Quality Limit Control in Thalhausen. We check whether the series production matches the samples and whether all standard specifications are adhered to during the production process. If there is no cause for complaint, each item of clothing is labelled with a numbered TURTLE TESTED® stamp as a quality label.

CLOTHING

HB
PROTECTIVE
WEAR



IS PROTECTED ITSELF.

TRANSPARENT PRODUCTION CHAIN.

The seamless traceability of products across the entire manufacturing process is an absolute necessity to ensure a credible brand promise. The TURTLE TESTED® stamp, the serial number on the label and the production order number on the internal labels are guarantees of this credibility:

With this information, each individual finished product can be seamlessly traced back by HB. Since we work in accordance with ISO 9001, we are able to inform you about the manufacture and design of our products at any time.

IN THE INTEREST OF SUSTAINABILITY.

We have set up our own test centres to ensure that our products can withstand daily use over a long period of time. Our strict washing tests in accordance with ISO 15797 provide information about the ideal cleaning and drying of HB protective clothing. For our ESD items, we measure charge decay and surface resistance in our ESD laboratory. Weight circular measurements for textiles in accordance with ISO EN 12127 and ISO EN 5077 are carried out in a climate chamber.

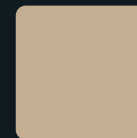
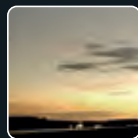
▷ 21 TO WEAR.

OUR HIGH-SPEED

21 TO WEAR®.

Our high-speed delivery service delivers our protective clothing in a flash: wherever you see this logo, any items that are not available immediately will be supplied within 21 days. Across the whole of Europe* and starting with one piece.

*



*Maximum 30 of each item from the available sizes chart.
Outside Germany, delivery will take a few days longer.



DELIVERY SERVICE.



- For all those who require PPE urgently
- Rapid response to immediate requirements
- So that your employees can get started straight away
- 100% HB quality
- Reduces your warehousing requirements
- We also deliver models with extra features including knee pockets and reflective stripes via 21 TO WEAR®

▶ READY TO WEAR – ONE **SYSTEM**, MORE



VERSATILE PROTECTION FOR SMALL AND MEDIUM- SIZED COMPANIES.

Basing ourselves on our HB-SecureAllround® product line, we have developed READY TO WEAR – an innovative system that allows even small and medium-sized businesses to put together their own individual protective clothing in line with their corporate design.

HB-SecureAllround® offers protection against a whole raft of dangers: electric arcs, heat, flames, molten iron splashes and chemicals, covering the needs of a wide range of applications. The collection is of course also suitable for industrial laundry.



THAN THOUSAND POSSIBILITIES.

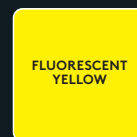
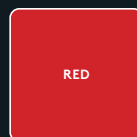
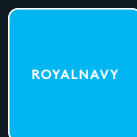
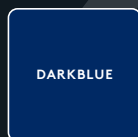
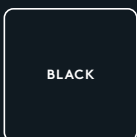


MORE THAN 1,000 POSSIBILITIES.

Choose from 4 products (jacket, waistband trousers, dungarees or overalls), 216 colour combinations, 12 equipment versions (reflective strips, knee pockets and a second thigh or ruler pocket) and 28 sizes – all of which can be freely combined.

DESIGN YOUR PROTECTIVE CLOTHING YOURSELVES!

See for yourselves what the possibilities are – you'll find our READY TO WEAR configurator online at www.hb-ready-to-wear.com



And, on top of this maximum flexibility, we give you minimal lead times: your individual collection will be with you in at most 21 days*. Naturally with a modern design and outstanding wear comfort, just as you've come to expect from us.

* Outside Germany, delivery will take a few days longer. Minimum order quantity is 15 units per product.

▶ FOR THOSE WHO

TAKE THINGS TO THE

JACKET: HI-VISION® SOFTSHELL FR



EXTREME.

Some jobs are more dangerous than others. That's why we developed our multi-risk products: They offer extreme protection because they have been optimised with regard to design, comfort and equipment for multiple areas of application and workplaces with diverse risk profiles. You can find these products across our various product segments – from Arc & Energy to HiVis & Weather – where they are easy to spot thanks to the „multi-risk“ symbol.



▶ MULTI-FUNCTIONAL PROTECTION WITH EVERY

Specialist or all-rounder?

Our world of work is becoming more and more complex, with increasing variety in the tasks involved. Multi-functional PPE is useful in many cases because it can protect against several risks. However, it must be noted that full protection also requires a few compromises: the more standards that are fulfilled, the tougher and more expensive the fabric and therefore the more work is generally required to make it.

The key to selecting the right protective clothing is therefore more to do with meeting the requirements of the specific working situation than meeting as many standards as possible. So the answer to the „all-rounder“ or „specialist“ question always depends on the individual case – which we clarify together with the customer. This is why our multi-functional products do not form a product category of their own in this catalogue, but are integrated into the individual product segments – easy to spot thanks to the multi-risk logo.

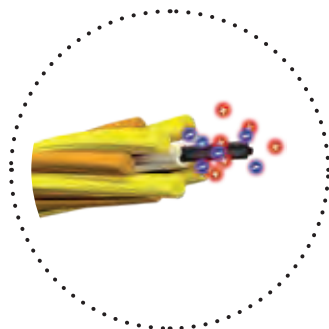
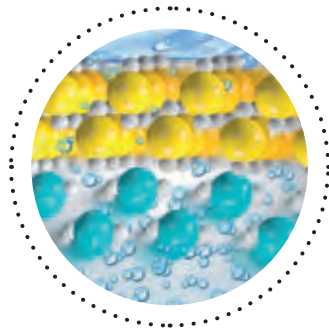


Pictograms

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.



SINGLE FIBRE.

HIGHTECH PROTECTION TO EVERY DETAIL

Highly visible

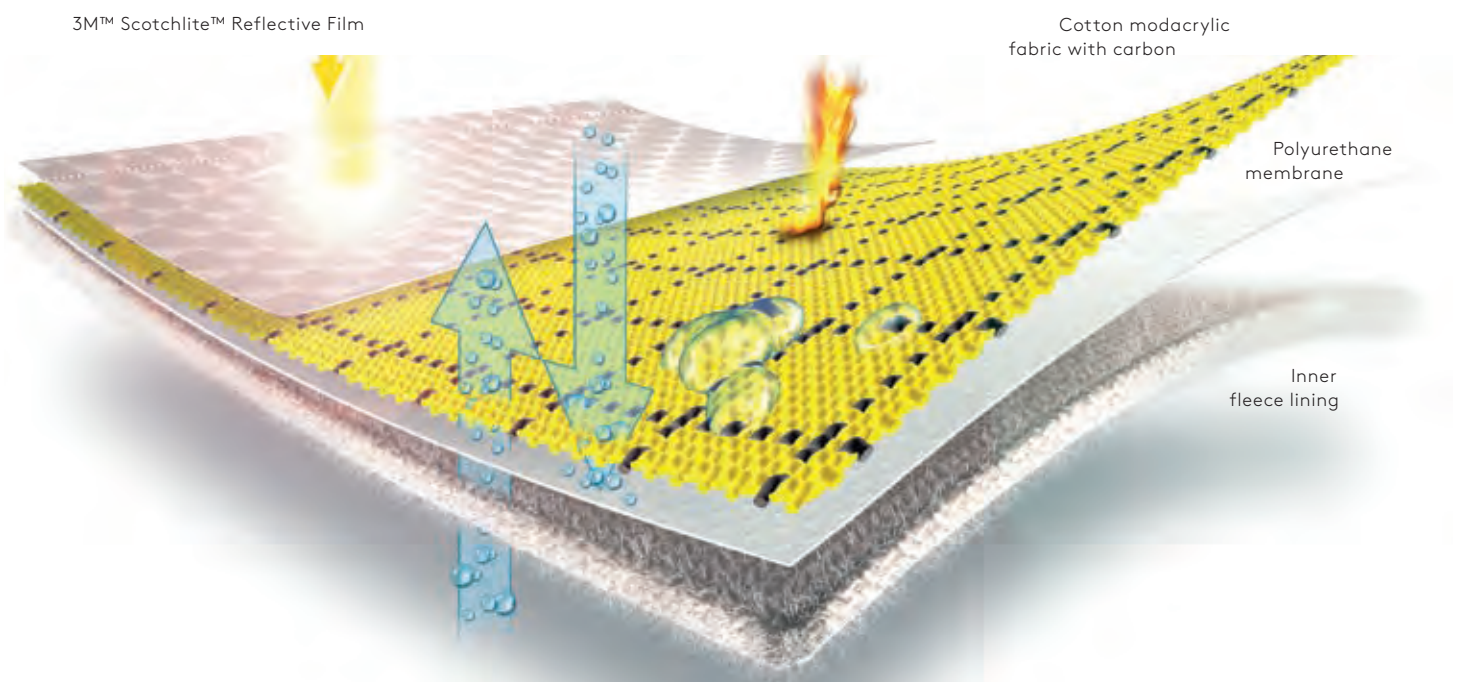
The special surface structure of the attached retroreflective 3M Scotchlite™ Premium Reflective Film directly reflects the light back to its source.

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.

▶ WHEN YOU ARE EXPOSED TO
ELECTRICITY, WE

BLOUSON:
HB-MODarc + Reflective





MAKE SURE YOU ARE SAFELY GROUNDED.

When strong electric forces are present, there is little time to react. Our protective clothing from the Arc & Energy category provides reliable protection against arc flashes and prevents clothing from catching fire after coming into contact with an arc flash. Subjected to extensive testing for maximum HB quality.





ARC & ENERGY MATERIAL AND PRODUCT HIGHLIGHTS

LIGHTWEIGHT

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.

TALENT FOR COMBINATION

The polo shirt perfectly fits with the trousers of all three product lines HB-Modarc, HB-Modarc + Reflective and HB-Modarc & vis.

ARC &
ENERGY



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:** 11.8 cal/cm² · 494.0 kJ/m² · **HAF VALUE:** 79 % ·
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 press studs · 2 attached breast pockets with flap and covered press studs · 1 inner pocket · side slot pockets with zip and with flap and covered press studs · press studs for adjusting sleeve width · neck label · FR standard pictograms on the front.

Part number: **01128 10134 020 3026**

Garment weight: approx. 1,240 g

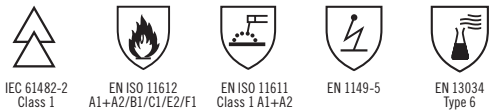
Regular sizes: 46-58 & 94-110

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 press studs · 1 thigh pocket with 1 interior mobile phone-/pen-pocket and flap with covered press studs.

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 on the system 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 press studs • 1 inside breast pocket with velcro fastening • 2 side pockets with flaps • sleeve width adjustable with press studs • neck label • 1 back pocket • 1 thigh pocket with 1 interior mobile phone-/pen-pocket – each with flap and covered press studs • 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:



Closure band with snap fasteners covered on both sides

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 press studs • elasticated section for kidney protection.

Part number: **01128 50061 050 3026**

Garment weight: approx. 1,340 g

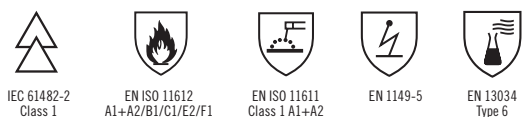
Regular sizes: 46–58 & 94–110

Secondary sizes: 44, 60–64, 24–29

dark blue/medium grey/red

Wearing comfort: ★ ★

Standards:



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 54.

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

Mobile phone pocket inside of left front pocket

1 | BLOUSON, 1-PLY OR 2-PLY VERSION

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 Velcro 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*

*front and sleeves

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

EN ISO 11611
Class 1 A1+A2

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 OR 2-PLY VERSION

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 OR 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 14.



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

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



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

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 press studs





1 | JACKET

Two-coloured • stand-up collar • front zip with attached panel and covered press studs • 2 attached breast pockets with flaps and covered press studs, side slot pockets with flaps and covered press studs • press studs 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/plein orange
Wearing comfort: ★ ★

1, 2 and 3 |
Standards 1-ply:



IEC 61482-2
Class 1



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



EN ISO 11611
Class 1 A1+A2



EN 1149-5

Standards 2-ply:



IEC 61482-2
Class 2*
*front and sleeves



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



EN ISO 11611
Class 1 A1+A2



EN 1149-5



2 | TROUSERS

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 press studs • 1 thigh pocket with flap and covered press studs 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/plein orange
Wearing comfort: ★ ★





3 | BIB AND BRACE TROUSERS

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 press studs 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/plein orange
Wearing comfort: ★ ★




Material is completely doubled

4 | SAFETY COAT, 2-PLY

Single-coloured • high band collar with covered velcro fastener • covered zipper, covered with velcro fastener • left-side chest pocket with velcro fastener • sleeve width adjustable with velcro • 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:



IEC 61482-2
Class 2



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



EN ISO 11611
Class 1 A1+A2



EN 1149-5



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 Velcro

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 Velcro • 1 inner pocket on the left with Velcro, 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 Velcro • wristband adjustable via Velcro • 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:



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 Velcro • 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
Class 1



EN ISO 20471
Class 2



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



EN ISO 11611
Klasse 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 Velcro, 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 Velcro • 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
Class 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



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 Velcro 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+
*front trousers



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



EN ISO 11611
Class 1 A1+A2



EN 1149-5



2 and 3 |
Knee pockets with covered
FR Velcro 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 Velcro 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+
*front trouser



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



EN ISO 11611
Class 1 A1+A2



EN 1149-5



2 and 3 |
front
trousers
2-ply

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



The colour combination black/grey is available via our highspeed delivery service 21 TO WEAR®

Band collar with covered snap fastener

Pockets with handy tab to open

Completely manufactured in roof-tile design



1 | BLOUSON, 1-PLY OR 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
Class 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
Class 2*

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

EN ISO 11611
Class 1 A1+A2

EN 1149-5

EN 13034
Type 6

*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 OR 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 (+ mobile phone pocket) – each with flap, covered snap fastener and tab to open • 1 ruler pocket on the right (+ pen pocket) • knee pockets with Velcro 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
Class 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
Class 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 |
Knee pockets
with Velcro
fastener



2 and 3 |
Bellows pocket
with additional
mobile pocket



3 | BIB AND BRACE TROUSERS, 1-PLY OR 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 (+ mobile phone 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
Class 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
Class 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



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 OR 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

The 2-ply jacket in navy/royal is available via our highspeed delivery service 21 TO WEAR®.

Regular sizes: 46-58 & 94-110

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

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



EN 13034
Type 6

Standards 2-ply:

IEC 61482-2
Class 2

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

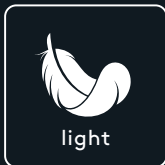
EN ISO 11611
Class 1 A1+A2

EN 1149-5

EN 13034
Type 6

*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 OR 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 (+ mobile phone pocket) – each with flap, covered snap fastener and tab to open • 1 ruler pocket on the right (+ pen pocket) • knee pockets with Velcro 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

black/grey

navy

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



EN 13034
Type 6

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

EN 13034
Type 6

*front trousers

Available in
grey/black via
our high speed
delivery service
21 TO WEAR®.



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 OR 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 (+ mobile phone 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**
Garment weight: approx. 890 g

Part number 2-ply: **01072 50055 008 2188**
Garment weight: approx. 1.005 g

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

black/grey

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



EN 13034
Type 6

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

EN 13034
Type 6

*front trousers

2 and 3 |
Bellows pocket
with additional
mobile pocket

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

Available in navy
and grey/black
available via our
highspeed delivery
service 21 TO WEAR®.



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% MODACRYLIC, 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 OR 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.

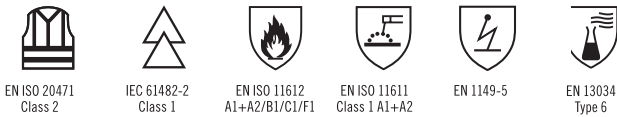
Part number 1-ply: **01072 10107 028 2112**
Garment weight: approx. 940 g

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 OR 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 (plus mobile pocket), each with flap, covered snap fastener and tab to open • 1 pocket for folding rule on the right (plus pen pocket) • knee pockets with Velcro fastener • FR reflective stripes, suitable for industrial laundry.

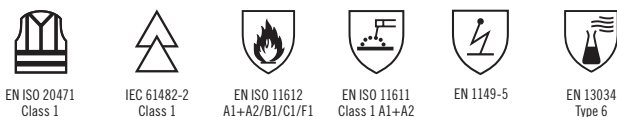
Part number 1-ply: **01072 20074 000 2112**
Garment weight: approx. 815 g

3 and 4 | 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 OR 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 (+ mobile pocket), each with flap and covered snap fastener • folding rule pocket on the right (+ pen pocket) • 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
Class 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
Class 2*
*front trousers

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

EN ISO 11611
Class 1 A1+A2

EN 1149-5

EN 13034
Type 6

2 and 3 |
Cargo pocket + mobile 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 press studs • 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 000 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
Class 1



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



EN 1149-5

Flexible segmented
and flame-retardant
reflective stripes



Standards pictograms
on the sleeve as FR direct
embroidery

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 Velcro 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



Inner mobile phone pocket with Velcro fastener

Closure band with covered zip fastener and covered Velcro fasteners

Many reflective pipings



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 Velcro fastener • 2 front and 2 side pockets, each with flap and covered Velcro fasteners • 1 inner mobile phone pocket on the right and 1 inner pocket on the left, each with Velcro 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:



IEC 61482-2
Class 1



EN ISO 11612
A1/B1/C1



EN ISO 11611
Class 1 A1



EN 1149-5

Standards pictograms on the front as FR direct embroidery



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 Velcro fastener • knee pockets with Velcro 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 Velcro 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 Velcro fastener • side access on the left, adjustable via buttons • knee pockets with Velcro 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 | MAN'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.

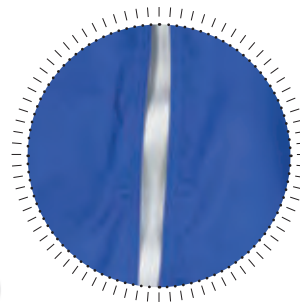
MATERIAL: NOMEX® Comfort // 98 % ARAMIDE, 2 % CARBON ·

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 Velcro fastener



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

1 | JACKET, 1-PLY OR 2-PLY

Two-coloured • turn-down collar • closure band with covered buttons • 2 front and 2 side pockets – each with flap and Velcro fastener • 1 inner front pocket on the left with Velcro 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 Velcro 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*

EN ISO 11612
A1/B1/C1/F1

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 OR 2-PLY

Two-coloured • added waistband • covered button fly • 2 slant pockets • 2 hip pockets with flap and Velcro fastener • 1 double ruler pocket on the right • 1 leg pocket on the left (+ mobile phone pocket) with bellow, flap and Velcro 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 Velcro
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 OR 2-PLY

Two-coloured • fix-lock stretch braces • high-cut kidney protection • 1 outer bib pocket with flap, FR reflective piping and Velcro 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 Velcro 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



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



Polo collar with covered snap fasteners



FR as direct embroidery

1 | POLO FR LONGSLEEVED

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-FlameSoft®

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



Standard pictograms as direct embroidery



Denim-Look

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



WHEN YOU NEED ANSWERS

TO THAT

JACKET:
HB-FluidMetal Pro



HEAT,
FLAME &
SPLASHES



BURNING QUESTION.

Sizzling heat, glowing sparks: if you work with fire or molten metal, you need to be prepared for all situations. Our products in the Heat, Flame & Splashes category provide maximum safety because they protect you not only from exposure to heat in general, but also in the case of direct contact with flames and sparks. At the same time, they set standards when it comes to wearing comfort.





HEAT, FLAME & SPLASHES MATERIAL AND PRODUCT HIGHLIGHTS

Thanks to our innovative cutting technology and high-quality workmanship in every last detail, our models offer maximum safety for welding work.

SAFETY FIRST

HEAT,
FLAME &
SPLASHES



INSTEAD OF AVERAGE

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.

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 flameretardant 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.

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

Part number: **01249 10204 000 52**

Garment weight: approx. 810 g

Fabric weight: approx. 395 g/m²

medium grey

Regular sizes: 46–58 & 94–110

Secondary sizes: 44, 60–64, 24–29

Wearing comfort: ★

Standards:



EN ISO 11611
Class 1 A1+A2



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



EN ISO 11611
Class 2 A1+A2



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

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

Part number: **01249 20003 025 52**

Garment weight: approx. 770 g

Fabric weight: approx. 395 g/m²

medium grey

Regular sizes: 46–58 & 94–110

Secondary sizes: 44, 60–64, 24–29

Wearing comfort: ★

Standards:



EN ISO 11611
Class 1 A1+A2



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



EN ISO 11611
Class 2 A1+A2



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



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

Part number: **01249 30014 007 52**
Garment weight: approx. 1,475 g
Fabric weight: approx. 395 g/m²
■ medium grey

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

Standards:



EN ISO 11611
Class 1 A1+A2



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



EN ISO 11611
Class 2 A1+A2



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



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

Part number: **01249 50002 050 52**
Garment weight: approx. 880 g
Fabric weight: approx. 395 g/m²
■ medium grey

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

Standards:



EN ISO 11611
Class 1 A1+A2



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



EN ISO 11611
Class 2 A1+A2



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



3 and 4 |
Ruler
pocket

SECAN® Securo

The 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 Velcro 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 with 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 with 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

This material offers high protection on a completely new level of comfort. The fabric is significantly lighter, smoother and easy-fit than traditionally rather heavier welding protection, also liquid iron can easily drip off. HB-4welders® is perfectly suited for permanent, even heavy duty welding work with additional risks caused by electric arcs.

COMPOSITE FABRIC: 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®



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



Sleeve hems adjustable with covered snap fasteners



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 Velcro 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 Velcro 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

NOMEX® III

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



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 · 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

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 430 // 52 % COTTON, 37 % MODACRYLIC, 10 % VISCOSE, 1 % CARBON ·

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

FABRIC WEIGHT: approx. 340 g/m² · approx. 430 g/m² ·

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

HABETEX®





1 | JACKET

Two-coloured • stand-up collar with covered press stud • 2 breast pockets with flap • 2 side pockets • 1 pocket inside • covered front closure with press studs • 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 with 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 press studs • knee pocket with adjustable velcro fastener • flame-retardant and industrially washable reflective stripes • no Hi-Vis protective clothing according to EN ISO 20471 • manufactured with 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



Flame-retardant reflective stripes for industrial laundry



Stand-up collar

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 press studs • knee pocket with adjustable velcro fastener • flame-retardant reflective stripes, suitable for industrial laundry • no Hi-Vis protective clothing according to EN ISO 20471 • manufactured with 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:



4 | FOUNDRY SHIRT

Single-coloured • stand-up collar • front closure with covered press studs on both sides • breast pocket left (with flap) and sleeve (with gusset and cuff) with covered press studs • back with side folds for freedom of movement • standard pictograms as FR direct embroidery on the right sleeve.

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:



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 press studs • 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.

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 Velcro 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

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

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
Velcro fastener



Large inner
pocket

Adjustable
sleeve hem width



1 | BLOUSON


Single-coloured • high band collar with covered Velcro 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



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



IEC 61482-2
APC 1

HEAT,
FLAME &
SPLASHES



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 with 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



IEC 61482-2
APC 1

4 | SHIRT

Single-coloured • stand-up collar with flap and covered velcro fastener • front closure with covered press studs • breast pocket with flap and covered stud fastener • sleeves with gusset and cuffs and with covered press studs • 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

■ dunkelblau

Wearing comfort: ★ ★

Standards:



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

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 Velcro 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 Velcro 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 work in high-temperature environments, we offer aluminised heat protection clothing from head to toe in six different versions. The fabrics differ in terms of the composition of the carrier material, the type of aluminisation, the weight and the concrete protective properties against the different types of heat stress – indicated by the protection classes in the standard pictogram.



FOUNDRY COAT,
PROTECTIVE HOOD, HEAT PROTECTION SCREEN (POLYCARBONATE)
AND 5-FINGER GLOVES.

FABRIC COMPOSITION

MATERIAL MAT. NO.	MATERIAL CHARACTERISTICS	
CK-10/Z 12004	70 % POLYACRYLIC, 30 % ARAMIDE · twill weave · weight: approx. 370 g/m ² · vacuum metallisation · light · good protection against heat and molten metals	 EN ISO 11612 A1/B1/C3/D3/E3/F1
CK-11/Z 12005	70 % POLYACRYLIC, 30 % ARAMIDE · twill weave · weight: approx. 490 g/m ² · vacuum metallisation · very good protection against heat and molten metals	 EN ISO 11612 A1/B1/C3/D3/E3/F1
KF-3/Z 12003	100 % ARAMIDE · herringbone twill · weight: approx. 460 g/m ² · vacuum metallisation · very good protection against heat and molten metals	 EN ISO 11612 A1/B1/C3/D3/E3/F1
KF-3/ZF 12006	100 % ARAMIDE · twill weave · weight: approx. 480 g/m ² · vacuum metallisation · very good protection against heat and molten metals	 EN ISO 11612 A1/B1/C3/D3/E3/F1
RF-1/Y 12012	100 % RAYON · herringbone twill · weight: approx. 585 g/m ² · coated on both sides with metallised polyester film · no protection against molten metals · excellent protection against radiant heat (C4 = highest performance level)	 EN ISO 11612 A1/B1/C4
KF-4/Z 12011	49 % ARAMIDE, 51 % GLASS · herringbone twill · weight: approx. 690 g/m ² · vacuum metallisation · very good protection against heat and molten metals	 EN ISO 11612 A1/B1/C3/D3/E3/F1

FIELDS OF APPLICATION:

Steel works, aluminium working industry, foundries, heat exposed work places

Every protective garment certified according to EN ISO 11612 is part of a clothing system combined with heat protection clothing worn under it. The protective function only applies to the parts of the body covered by protective wear. Additional protective clothing needs to be worn in combination with a suit according to EN ISO 11612. EN ISO 11612 defines a suit as a two-piece garment consisting of Coat/Jacket and Trousers.

A clothing system (suit and additional protective clothing) according to EN ISO 11612 consists of COAT/JACKET · TROUSERS · APRON · HEAD AND FACE PROTECTION · CUFFS · GAITERS.

Every garment has to be worn in combination with the others.

HEAT,
FLAME &
SPLASHES



1 | FOUNDRY COAT

Set-in sleeve with pivot spacing • inner collar with flame-retardant cotton lining • front velcro fastener FR • FR seams • approx. 130 cm long

Part number: **12004 4H000 001 15**

Material: **CK-10/Z** • Garment weight: approx. 1,181 g

Standards:



EN ISO 11612
A1/B1/C2/D3/
E3

Part number: **12005 4H000 001 15**

Material: **CK-11/Z** • Garment weight: approx. 1,442 g



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

Part number: **12003 4H000 001 15**

Material: **KF-3/Z** • Garment weight: approx. 1,521 g



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

Part number: **12012 4H000 001 15**

Material: **RF-1/Y** • Garment weight: approx. 1,694 g



EN ISO 11612
A1/B1/C4

Regular sizes: 46/48–58/60

Secondary sizes: 42/44 & 62/64

■ silver



2 | BACK-VENTILATED FOUNDRY COAT

Set-in sleeve with pivot spacing • doubled back ventilation with nettle cloth lining • inner collar with flame-retardant cotton lining • front closure with 3 quick release clasps • FR seams • approx. 130 cm long.

Part number: **12003 4H006 000 15**

Material: **KF-3/Z**

Garment weight: approx. 1,754 g

Regular sizes: 46/48–58/60

Secondary sizes: 42/44 & 62/64

■ silver

Standards:



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



TEMPEX®-TREME HEAT

For work in high-temperature environments, we offer aluminised heat protection clothing from head to toe.

1 | HEAT PROTECTION JACKET WITH VELCRO FASTENER

Set-in sleeve with pivot spacing • inner collar with flame-retardant cotton lining • front contiguous velcro fastener FR • FR seams • approx. 80 cm long.

Part number: **12003 1H005 000 15**

Material: **KF-3/Z**

Garment weight: approx. 1,023 g

Regular sizes: 46/48-58/60

Secondary sizes: 42/44 & 62/64

■ silver

Standards:



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



2 | HEAT PROTECTION JACKET WITH QUICK RELEASE FASTENER

Set-in sleeve with pivot spacing • inner collar with flame-retardant cotton lining • front closure with 3 quick release clasps • FR seams • approx. 80 cm long.

Part number: **12004 1H003 000 15**

Material: **CK-10/Z** · Garment weight: approx. 880 g

Part number: **12003 1H003 000 15**

Material: **KF-3/Z** · Garment weight: approx. 1,096 g

Part number: **12012 1H003 000 15**

Material: **RF-1/Y** · Garment weight: approx. 1,212 g

Regular sizes: 46/48-58/60

Secondary sizes: 42/44 & 62/64

■ silver

Standards:



EN ISO 11612
A1/B1/C2/D3/
E3



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



EN ISO 11612
A1/B1/C4



3 | HEAT PROTECTION TROUSERS

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

Part number: **12004 2H003 000 15**

Material: **CK-10/Z** · Garment weight: approx. 868 g

Part number: **12003 2H003 000 15**

Material: **KF-3/Z** · Garment weight: approx. 1,131 g

Part number: **12012 2H003 000 15**

Material: **RF-1/Y** · Garment weight: approx. 1,251 g

Regular sizes: 46/48-58/60

Secondary sizes: 42/44 & 62/64

■ silver

Standards:



EN ISO 11612
A1/B1/C2/D3/
E3



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



EN ISO 11612
A1/B1/C4



HEAT,
FLAME &
SPLASHES



4 | APRON WITH SLEEVES

Shoulder protection • neckline treated with molleton • set-in sleeves • back protection closable using snap fasteners • brass chain as a side fastener • chains and hook fasteners with underlaid leather • opening on the back with covered snap fastener closure • FR seams • approx. 130 cm long • arm length approx. 60 cm • back protection approx. 16 cm long • approx. 100 cm wide.

Part number: **12004 7H010 005 15**

Material: **CK-10/Z** • Garment weight: approx. 853 g

Part number: **12003 7H010 000 15**

Material: **KF-3/Z** • Garment weight: approx. 1,125 g

Regular sizes: 46/48–58/60

Secondary sizes: 42/44 & 62/64

■ silver

Standards:



EN ISO 11612
A1/B1/C2/D3/
E3



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



5 | BIB APRON

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

Part number: **12003 7H011 000 15**

Material: **KF-3/Z** • Garment weight: approx. 642 g

One size

■ silver

Standards:



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



6 | HALF APRON

Tie straps for closing • FR seams • approx. 100 cm long.

Part number: **12003 7H012 000 15**

Material: **KF-3/Z** • Garment weight: approx. 511 g

One size

■ silver

Standards:



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



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 HOOD WITH SHOULDER AND CHEST PROTECTION

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

Part number: **12003 7H007 000 15**

Material: **KF-3/Z**

Garment weight: approx. 508 g · One size

Sale unit: 1 piece

■ silver

Standards:



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



2 | PROTECTIVE HOOD

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

Part number: **12003 7H007 001 15**

Material: **KF-3/Z**

Garment weight: approx. 297 g · One size

Sale unit: 1 piece

■ silver

Standards:



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



3 | HELMET COVER

Shaped neck protection • side snap fasteners for attaching a face shield • FR seams • fits with helmets Phenol (item 90021 7Z006 011 68) and Poly (item 90022 7Z006 012 10) • fits with face guards (item 12012 7H006 001 15 or item 12011 7H006 002 15).

Part number: **12003 7H009 000 15**

Material: **KF-3/Z**

Garment weight: approx. 184 g · One size

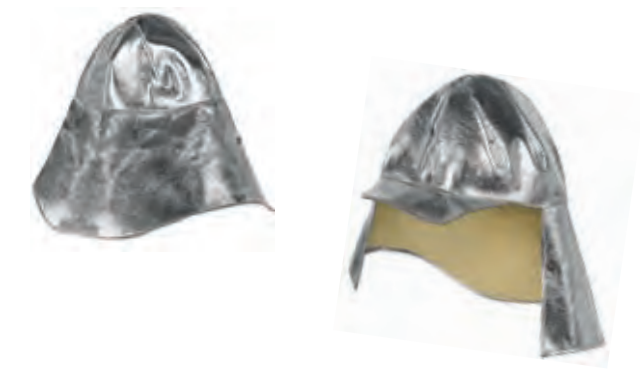
Sale unit: 1 piece

■ silver

Standards:



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



HEAT,
FLAME &
SPASHES



4 | FACE GUARD

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

Part number: **12011 7H006 002 15**

Material: **KF-4/Z** • Garment weight: approx. 283 g

One size

Sale unit: 1 piece

■ silver

Standards:



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



5 | 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

Sale unit: 1 piece

■ raw white



6 | 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)

Sale unit: 1 piece

■ gold

Standards:



EN 397



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 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 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)

Sale unit: 1 piece

white

Standards:



EN 397

EN 50365



2 | 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

Sale unit: 1 piece

silver



3 | 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

Sale unit: 1 piece

silver



4 | 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

Sale unit: 1 piece

silver





5 | 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

Sale unit: 1 piece

 silver




6 | 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 head protection hoods (item 12003 7H007 000 15 or 12003 7H007 001 15) • fits with Face Guard (item 12011 7H006 002 15).

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

Shape: 100 x 220 mm

Sale unit: 1 piece

 dark blue



7 | HEAT PROTECTION GLASS, CURVED, LAMINATED SAFETY GLASS

Gold-plated • protection from radiant heat • infrared protection level 4-5 • fits with head protection hoods (item 12003 7H007 000 15 or 12003 7H007 001 15) • fits with Face Guard (item 12011 7H006 002 15).

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

Shape: 100 x 220 mm

Sale unit: 1 piece

 gold

Standards:



EN 166 EN 171



8 | 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 hood (item 12003 7H007 000 15 and 12003 7H007 001 15) • fits with face guard (item 12011 7H006 002 15).

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

Shape: 100 x 220 mm

Sale unit: 1 piece

 gold

Standards:



EN 166 EN 171



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.

9 | 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

Sale unit: 1 piece

neutral

Standards:



EN 166

10 | 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

Sale unit: 1 piece

gold

Standards:



EN 166

EN 171

11 | 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

Sale unit: 1 piece

green

Standards:



EN 166

EN 171

12 | 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

Sale unit: 1 piece

dark blue



TEMPEX® - TREME HEAT HAND PROTECTION

HEAT,
FLAME &
SPLASHES



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

Sizes: 11

Sale unit: 1 pair

 silver/yellow

Standards:



EN ISO 407
4132XX



EN 388
1442



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

Sizes: 11, 12

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

Sizes: 11

Sale unit: 1 pair

 silver/stone grey

Standards:



EN ISO 407
4134X3



▶ 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.

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

Sizes: 11, 12

Sale unit: 1 pair

■ yellow

Standards:



EN ISO 407
413XXX



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

One size

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

Sizes: 11

Sale unit: 1 Paar

■ green olive

Standards:



EN ISO 407
411XXX



HEAT,
FLAME &
SPLASHES



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

Sizes: 11

Sale unit: 1 pair

 pure orange



8 | 3-FINGER WELDING 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

Sizes: 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



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

Sizes: 11

Sale unit: 1 pair

 silver/stone grey

Standards:



EN ISO 407
4234X3

▶ 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 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

Sizes: 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

Sizes: 11

Sale unit: 1 pair

 silver/yellow

Standards:



EN ISO 407
4334X3



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

Sizes: 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

Sizes: 11

Sale unit: 1 pair

 yellow

Standards:



EN ISO 407
434XXX



5 | MITTENS FOR CONTACT HEAT

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

Part number: **01191 7H002 006 20**

Material: **Aramide, Glass, Polyimide** · Length: approx. 290 mm

Sizes: 11

Sale unit: 1 pair

 yellow

Standards:



EN ISO 407
434XXX



6 | MITTENS FOR CONTACT HEAT

Made of KEVLAR®/Polyacrylic-fabric • lined with molleton impregnated with flame-retardant • insulation made from wool felt and half-wool felt • winged thumbs • ambidextrous.

Part number: **01182 7H002 005 33**

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

Sizes: 11

Sale unit: 1 pair

 green

Standards:



EN ISO 407
4344XX



7 | CUFFS

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

Standards:

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

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

One size

Sale unit: 1 pair

 silver



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.



Nitrile rubber soles with heat-insulated substructure



Double snap fasteners closure

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

HEAT,
FLAME &
SPLASHES



2 | GAITERS WITH VELCRO FASTENER

Made of KF-4/Z • fiber reinforcement in leg • flame-inhibiting Velcro 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

To complete your personal heat protection equipment, we recommend wearing flame-retardant underwear. When combined with heat protection outerwear, it gives you added protection against the effects of heat and flames. You can choose between two materials: cotton blend or NOMEX®.

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: ★

3 | UNDERSHIRT FR

Single-coloured • round neckline • long-sleeve.

Part number: **04040 7Z015 004 + COLOUR NO.**

Material: **55 % Modacrylic, 45 % Cotton**

Sizes: 5-8

53 grey

45 navy

Wearing comfort: ★

Standards:



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



4 | UNDERTROUSERS FR

Single-coloured • long • flyless.

Part number: **04040 7Z016 004 + COLOUR NO.**

Material: **55 % Modacrylic, 45 % Cotton**

Sizes: 5-8

53 grey

45 navy

Wearing comfort: ★

Standards:



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



▶ ACCESSORIES FR

HEAT,
FLAME &
SPLASHES



Here you find two accessories going perfectly with our welding and flame protection garments: The robust belt, available in three lengths and made from certified FR material, and the comfortable and solid knee pads, suitable for all HB trousers with knee pad pockets.

1 | 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

■ anthracite

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

Domestic washing only, no tumbler



2 | 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



▶ THERE IS NO SUCH THING AS BAD
IF YOU ARE WEARING

PARKA: HI-VISION® FR



WEATHER,

THE RIGHT CLOTHES.

HIVIS &
WEATHER

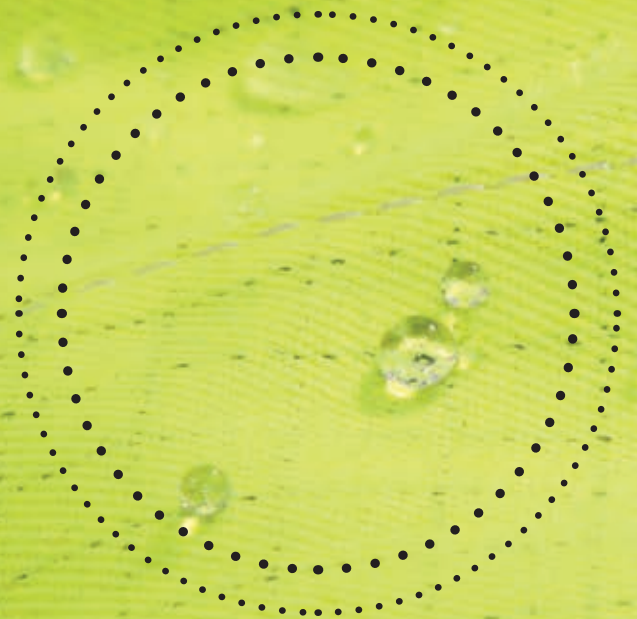


Whatever the forecast says, our weather protection products allow you to work comfortably and safely even in extremely wet conditions. Equipped with special high-visibility functions, they act as a kind of fabric stop sign. Good design is guaranteed in every case. The highlight is the HI-VISION® multi-risk collection, which combines functionality and aesthetics in the best possible way.



HIVIS & WEATHER MATERIAL AND PRODUCT HIGHLIGHTS

100% WATER-REPELLENT



ELABORATE MANUFACTURE

Our HiVis & Weather protective clothing provides optimum protection when you are battling the elements – thanks to premium materials and elaborate craftsmanship, including specially welded seams.



The eye-catching nature of the textiles ensures that you are seen even when visibility is poor. Extensive technical expertise and high quality standards of craftsmanship are key to our high-visibility and weatherproof clothing.

FUNCTIONALITY

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 109) can be attached with a zipper, making this parka unbeatable when it is cold outside.

MATERIAL: HABETEX® protect // 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



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 Velcro 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 Velcro 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/B1/C1/E1/F1



EN ISO 11611
Class 1 A1+A2



EN 13034
Type 6



EN 1149-5

2 | PARKA

Two-coloured • flame-retardant upper material with liner • sealed seams • high band collar with attached hood suitable for wearing with or without helmet • hood's field of vision adjustable via cord, hood height adjustable via Velcro fastener at back of head • covered 2-way zip fastener plus drip moulding with snap fasteners • 1 front pocket on the left, 1 mobile phone pocket (bellows) on the right, covered with laminated weather protection, and 2 side pockets (bellows) – each with flap and covered snap fastener • 1 inner Napoleon pocket on the left with zip fastener • waist adjustment via drawstring • flame-retardant reflective stripes, suitable for industrial laundry • wristbands with strap and Velcro fastener.

Mobile pocket covered with water resistant fabric



Part number: **01072 19062 004 2036**

Garment weight: approx. 1,630 g

Regular sizes: Unisex S–XL

Secondary sizes: Unisex XS, XXL, XXXL

navy/fluorescent yellow

Wearing comfort: ★ ★

Standards:



EN 343
Class 3/3



EN 471
Class 2/2



EN ISO 50354
Class 2



EN 531
A1/B1/C1/E1



EN 470-1



EN 13034
Type 6



EN 1149-3

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 109), it allows works even at very low temperatures.




MATERIAL: NOMEX® comfort, FC-EQUIPMENT (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



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 Velcro · 2 front pockets with side openings and Velcro · 1 front pocket on the left as mobile phone pocket (bellows) with pen compartments and flap with covered Velcro · 2 attached side pockets (bellows) with flaps and covered Velcro · 2 side seam pockets with Velcro · 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 Velcro · 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




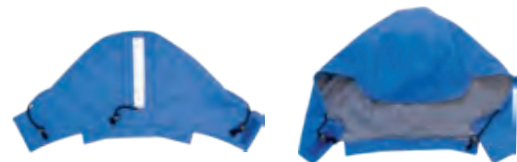
1, 2 and 3 |
Sealed seams

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

2 | 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 Velcro 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



3 | 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 Velcro · 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 Velcro · 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

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 109), it additionally provides a very good protection against cold.

MATERIAL: HABETEX® protect laminated // 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



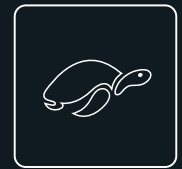
3M™ Scotchlite™ reflective stripes No. 8935, suitable for industrial laundry

EN Standard pictograms as FR direct embroidery

Elongated back

1 and 2 | 100 % water-repellent

Wristband adjustable via Velcro 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 Velcro 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 109, 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:



EN ISO 20471
Class 3



EN 343
Class 3/3



IEC 61482-2
Class 2



EN ISO 11611
Class 1 A1



EN ISO 11612
A1/B1/C1



EN 1149-5



EN 13034
Type 6



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 Velcro 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 on the left



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 106/107.



MATERIAL: HABETEX® protect laminated // 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 Velcro 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:



EN ISO 20471
Class 1



EN 343
Class 3/3



IEC 61482-2
Class 1



EN ISO 11612
A1/B1/C1



EN ISO 11611
Class 1 A1



EN 1149-5



EN 13034
Type 6

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

▶ Inner Fleece FR

HIVIS &
WEATHER



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 | Combinable with Parkas HI-VISION® FR from page 106 to 109.

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



HI-VISION® FR

HB Protective Wear is the first to launch Multi-Risk softshell products. Our softshell garments are lighter and more breathable than parkas, and warmer and more windproof than fleece. Each jacket provides you with very high Arc Flash Protection Class 2 (7kA) and thanks to their hi-vis certification acc. to EN ISO 201471 class 2 they offer excellent reflective properties in the dark.

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

HI-VISION®

3M Scotchlite®
Reflective Material



Soft inner
fleece FR



SATRA
PROFESSIONAL
CLOTHING AWARDS

Honored Best
Occupational PPE 2016.



Inner wind-blocker
with knitted
wristband



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



Water repellent

1 | SOFTSHELL JACKET


Two-coloured • raw white contrast stitching • high stand-up collar with Velcro 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

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
Class 1



EN ISO 11612
A1/B1/C1



EN 1149-5

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



2 | FLEECE JACKET PINVIZ FR

Two-coloured, design with round shapes • high band collar with Velcro 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 wind-blocker • elongated back • side pockets, elbow and shoulders reinforced with special strong HI-VISION® sparks material with reflective threads.

Art.-Nr.: **07015 19082 000 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
Class 1



EN ISO 11612
A1/B1/C2/F1



EN 1149-5



2 | Achieves in combination with our INDURA® UltraSoft® T-Shirt on page 52 Arc Flash Protection up to 7 kA.



Elongated back

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



Velcro fastener

1 | VEST FR

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

Part number: **01072 10128 000 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

▶ 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 // 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

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 Velcro fastener • 1 inner pocket on the left with Velcro • elongated back • hem width adjustable via cord • zip fastener on the inside to integrate Fleece Jacket (page 117) • wristband adjustable via Velcro • 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.**

Garment weight: approx. 1,885 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:



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





2 | 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 Velcro fastener • 1 inner pocket on the left with Velcro • hem width adjustable via cord • zip fastener on the inside to integrate Fleece Jacket (page 119) • wristband adjustable via Velcro • 3M™ Scotchlite™ reflective stripes No. 8940, suited for industrial laundry • standard pictograms as FR embroidery on left sleeve.


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

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:



EN ISO 20471
Class 3



EN 343
Class 3/3



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



EN 61482-1-2
Class 2



EN ISO 11611
Class 2 A1



EN 13034
Type 6



EN 1149-5



Chest pockets with flap and covered Velcro fastener

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


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 Velcro 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 above



HB-MultiPro FR®

HB-MultiPro FR® was specially developed for tasks involving a wide range of different risks. The material is wind-resistant and waterproof, breathable and hard-wearing. The bib and brace trousers are certified according to seven standards. The FR-vest can be worn on top of PPE garments certified against the hazards of heat and flames.

MATERIAL: HABETEX® universal // 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 | 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 Velcro • 2 side accesses with covered snap fastener and covered Velcro at the waist • slit with zip • legs' width adjustable via Velcro • 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

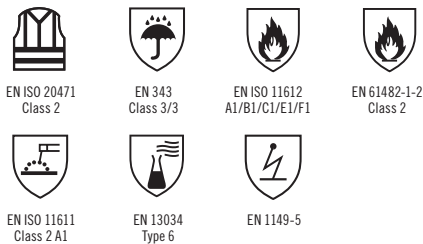
Secondary sizes: 42/44 & 62/64

 **2143** fluorescent yellow/dark blue

 **2147** fluorescent orange/dark blue

Wearing comfort: ★ ★

Standards:



▶ 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 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



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



Standard pictograms as FR embroidery

1 | FLEECE JACKET

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 Velcro • 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: **07015 1M016 000 48**

Garment weight: approx. 991 g

Regular sizes: 46/48–58/60

Secondary sizes: 42/44 & 62/64

■ dark blue

Wearing comfort: ★ ★

Standards:



IEC 61482-2
Class 1



EN ISO 11612
A1/B1/C2/F1



EN 1149-5



EN 14058
Class 1

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



Chest pocket with covered zip and Velcro

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: 100 % POLYESTER · **FABRIC WEIGHT:** approx. 155 g/m² ·

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

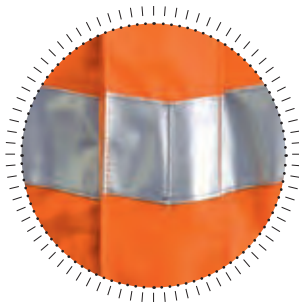
HI-VISION®

Available on request
in the colour combinations
■ fluorescent orange/black and
■ fluorescent yellow/black.

Stand-up collar with built-in hood



Reflective stripes on luminous orange for better visibility



1 | Combinable with our HI-VISION® Basic fleece jacket on page 124.



**HIVIS &
WEATHER**



1 | 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



2 | 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 press stud closure • with reflective strips 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
press stud



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, FC-EQUIPMENT (FLUORCARBON FINISH) · **PARKA** // 100 % POLYESTER · **FABRIC WEIGHT:** approx. 150 g/m² // approx. 195 g/m² ·
FIELDS OF APPLICATION: Technical retailers, suppliers, disposers, works in the factory or public traffic area, car wash, logistic centres

HI-VISION®

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 press stud closures • inside pocket on left with hook and loop fastener • hem can be adjusted with drawstring • sleeve width can be adjusted with press stud • 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:



*from size 42/44





HIVIS & WEATHER



MATERIAL: 100 % POLYESTER · **FABRIC WEIGHT:** approx. 270 g/m² ·

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

HI-VISION®



Stand-up collar with built-in hood



Segmented reflective stripes



3 | SOFTSHELL JACKET

Two-coloured • upper material as 3-layer-laminate • stand-up collar with built-in hood and fold-down visor • fastener strip with zip • can be worn closed up to the top or open • 2 chest and side pockets with zips • arm pocket on left with zip • hem can be adjusted with drawstring • segmented reflective strips in body language • the jacket features a soft, comfortable fleece.


Part number: **05037 1M035 000 + COLOUR NO.**

Garment weight: approx. 770 g

Regular sizes: 46/48–58/60

Secondary sizes: 42/44 & 62/64

 **2126** fluorescent yellow/grey

 **2167** fluorescent orange/grey

Wearing comfort: ★ ★


Standards:



EN ISO 20471
Class 2*

* size 42/44–50/52,
from size 54/56 Class 3

Additional available on request
in the colour combinations:

 **2112** fluorescent yellow/navy

 **2165** fluorescent orange-red/navy



HI-VISION® Basic Fleece

Our HI-VISION® Basic fleece jacket can be combined, following the layer principle, with the Hi-VISION® Basic jacket (page 118) and the HB-StormBase® jacket (page 124). 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 120.



Front with zip

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: ★ ★

HI-VISION® Basic

HIVIS &
WEATHER



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:



EN ISO 20471
Class 2



EN 13758-2
tested upon UV50+

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



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



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:



EN ISO 20471
Class 2



EN 13758-2
tested upon UV50+

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 · **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



Reflective stripes suitable for industrial laundry

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 press stud closures • inside pocket on left with hook and loop fastener • hem can be adjusted with drawstring • sleeve width can be adjusted with press stud • with reflective strips • no Hi-Vis protective clothing according to EN ISO 20471.

Part number 2-colour: **05028 1M006 001 2041**

■ navy/royalblau

Part number 1-colour: **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



Stand-up collar with
built-in hood



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

Reflective stripes suitable
for industrial laundry



▶ HB-AlpineActive®

For all those who work outside in the wind and weather: wind-repellent and waterproof thanks to bonded seams. The fabric is partly doubled with Cordura and therefore very durable and sturdy. Zip-in fleece and quilted jacket offer additional cold protection when worn with the parka. Trousers and overall with integrated quilted lining for protection against the winter cold. Worn on their own, the fleece and quilted jacket offer protection on cooler days.

MATERIAL: 100 % POLYESTER · **FABRIC WEIGHT:** approx. 155 g/m² · **FIELDS OF APPLICATION:** Lift operators, slope personnel, technical retailers, end customers. Suitable as winter wear for alpine and high-alpine zones: Parka in combination with our HB-AlpineActive® fleece and padded jackets, trousers with built-in padded lining.

Integrated hood
Stand-up collar
with integrated hood

Waist adjustable
via drawstring

Arm pocket
with zip

Stretch straps



Combinable with
HB-AlpineActive® fleece
and padded jackets
on page 130.

Reinforced with
Cordura fabric: very sturdy



1 | PARKA

Three-coloured • constructed as Z-liner with welded seams • stand-up collar with built-in hood • fastener strip with zip and visor with rain channel • 1 chest pocket for mobile radio and Napoleon pocket on left • 1 arm pocket on left, 2 front pockets • side slit pockets and inner pocket on left • waist can be adjusted with drawstring • arm width can be adjusted with hook and loop fastener.


Part number: **01158 1M027 000 + COLOR NO.**

Garment weight: approx. 1,200 g

Regular sizes: 46/48–58/60

Secondary sizes: 42/44 & 62/64

 **3038** middlegrey/red/black

 **3114** royal/middlegrey/dark blue

Wearing comfort: ★ ★



2 | WINTER TROUSERS

Three-coloured • with non-detachable built-in padded lining • constructed as Z-liner • with welded seams • stretch straps with clip • belt included • high-cut kidney protection • slit with zip • side slit pockets with zips • 1 back pocket on left • 1 bellows pocket on right with flap and covered zip • knee-high side slit with zip • inside snow guard with elastic band • cordura knee and hem reinforcements • high wear resistance and longer service life of parts subjected to heavy stress.

Part number: **01158 2M010 000 + COLOR NO.**

Garment weight: approx. 1,170 g

Regular sizes: 46/48–58/60

Secondary sizes: 42/44 & 62/64

 **3112** middlegrey/black/red

 **3113** royal/dark blue/fluorescent orange

Wearing comfort: ★ ★



For all those who work outside in the wind and weather: wind-repellent and waterproof thanks to bonded seams plus additional cold protection with zip-in fleece or quilted jacket. Trousers and overall with integrated quilted lining for protection against the winter cold. Worn on their own, the fleece and quilted jacket offer protection on cooler autumn days.

MATERIAL: 100 % POLYESTER · **FABRIC WEIGHT:** approx. 155 g/m² · **FLEECE + PADDED JACKET:** approx. 265 g/m² ·

FIELDS OF APPLICATION: Lift operators, slope personnel, technical retailers, end customers. The winter coverall is suited for alpine and high alpine zones.

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 • following the layer principle, can be combined with the 01158 1M027 000 parka.

Part number: **07025 1M050 000 2291**

■ ■ stone grey/black

Part number: **07024 1M050 000 2094**

■ ■ navy/black

Garment weight: approx. 720 g

Regular sizes: 46/48–58/60

Secondary sizes: 42/44 & 62/64

Wearing comfort: ★ ★



Combinable with HB-AlpineActive® parka on page 128.

2 | PADDED 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 • sleeves with knit cuffs • following the layer principle, can be combined with the 01158 1M027 000 parka.

Part number: **09019 1M093 000 2099**

Garment weight: approx. 700 g

Regular sizes: 46/48–58/60

Secondary sizes: 42/44 & 62/64

■ ■ middlegrey/black

Wearing comfort: ★ ★



HIVIS &
WEATHER



Stand-up collar with built-in hood

Inside snow
guard with
elastic band



Waist adjustable
via cord

3 | WINTER COVERALL


Two-coloured • outer fabric constructed as Z-liner with built-in padded lining • with welded seams • stand-up collar with built-in hood • fastener strip with covered 2-way zip • 2 chest pockets with flaps and press stud closures • 2 side pockets with flaps and zips • hip-height hem slits with covered zips • waist can be adjusted with drawstring • inside snow guard with elastic band • no Hi-Vis protective clothing according to EN ISO 20471.

Part number: **01158 3M001 000 2054**

Garment weight: approx. 1,920 g

Regular sizes: 46/48–58/60

Secondary sizes: 42/44 & 62/64

 dark blue/red

Wearing comfort: ★ ★

▷ IS THE **CHEMISTRY** NOT RIGHT? NOT A PROBLEM



JACKET: HB-CHEMcomfort Antistatic



FOR YOUR CLOTHING.

Unfortunately, even the best protective clothing cannot help you deal with difficult colleagues. But it can help protect you against hazardous chemicals: our products have undergone extensive quality testing to ensure that you are reliably protected from harm. Quality that exceeds standards – a hallmark of HB – is particularly valuable when working with chemicals.





CHEMICALS MATERIAL AND PRODUCT HIGHLIGHTS





ATTENTION TO DETAIL

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. Thanks to a meticulous manufacturing process, the cut edges have a particularly neat finish. The result is a pair of trousers that is impressively durable, strong and ultimately: safe.

▶ 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, Penetration index P (%): Sulphuric acid 30%: 0.3, Sodium hydroxide solution 10%: 0.0, o-Xylene: 3.5, Butan-1-ol: 0.7 · **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 | MAN'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:



EN 13034
Type 6



4 | TROUSERS

Single-coloured • added waistband with 7 belt loops • 2 slant pockets, 1 hip pocket on the right with flap and covered Velcro 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:



EN 13034
Type 6



..... 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 Velcro 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:



EN 13034
Type 6

▶ 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



Inner front pocket

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

CHEMICALS



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

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: ★ ★



▶ YOUR JOB MIGHT BE
ELECTRIFYING,

SWEAT JACKET:
CONDUCTEX® Pro Knit



ESD
ELECTRO-
STATIC
DISCHARGE



BUT YOUR CLOTHING SHOULDN'T BE.

If people working in production become electrically charged, it can easily cause damage to sensitive product parts. It is therefore all the more important to wear garments with reliable discharging features. As well as drawing on our many years of experience during manufacture, we also send our products through a state-of-the-art test centre as standard. This results in an extensive ESD range which meets the highest standards.





ESD ELECTROSTATIC DISCHARGE MATERIAL AND PRODUCT HIGHLIGHTS

LOOK & FEEL

Thanks to its virtually invisible grid two single-coloured variants of our ESD sweat jackets have a contemporary look.

ESD
ELECTRO-
STATIC
DISCHARGE



ANTISTATIC

A special feature of the new versions of our CONDUCTEX® Pro Knit sweat jackets is an integrated black antistatic thread that is also dyed and therefore practically invisible – without this affecting its antistatic properties.

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 press studs • 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

1-colour • press stud 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 press studs • 1 inside pocket on the left • 1 sleeve pocket on the left, adjustable cuffs with press stud fastener • ESD embroidered emblem on the sleeve pocket.

Part number: **08005 18000 003 41**

Garment weight: approx. 360 g/m²

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



2 | TROUSERS

1-colour • 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 press stud fastening • ESD embroidered emblem.

Part number: **08005 28007 000 + COLOUR NO.**

Garment weight: approx. 290 g/m²

Regular sizes: 46-58, 94-110

Secondary sizes: 44, 60-64

■ **41** royal

■ **45** navy

Wearing comfort: ★ ★

Standards:



EN 61340-5-1

Permanently reliable product protection: The tried and tested Naptex® ensures a fast and very high conductivity as well as high wearing comfort. The specifically developed metal fibre is protected by patent. All closure seams are additionally edged. Fabric with the quality label „breathability“ of the German Hohenstein certification institute.

MATERIAL: 63 % POLYESTER, 36 % COTTON, 1 % METAL · **FABRIC WEIGHT:** approx. 160 g/m² ·

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

FIELDS OF APPLICATION: Sensitive electronics manufacturing

1 | 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 • hemmed long-sleeve • embroidered ESD logo on left upper arm.

Part number: **08017 48005 000 + COLOUR NO.**

Ladies' coat · Garment weight: approx. 390 g
Regular sizes: XS-L · Secondary sizes: XXS, XL-XXXL

Part number: **08017 48000 000 + COLOUR NO.**

Men's coat · Garment weight: approx. 400 g
Regular sizes: S-XL · Secondary sizes: XS, XXL, XXXL

- 10 white
- 41 royal
- 471 pastel blue

Wearing comfort: ★ ★

Standards:



EN 61340-5-1



2 | 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: **08017 48005 007 + COLOUR NO.**

Ladies' coat · Garment weight: approx. 350 g
Regular sizes: XS-L · Secondary sizes: XXS, XL-XXXL

Part number: **08017 48000 013 + COLOUR NO.**

Men's coat · Garment weight: approx. 360 g
Regular sizes: S-XL · Secondary sizes: XS, XXL, XXXL

- 10 white
- 41 royal

Wearing comfort: ★ ★

Standards:



EN 61340-5-1





3 | MEN'S COAT LONG-SLEEVED WITH KNIT CUFFS

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 • embroidered ESD logo on left upper arm • sleeves with stretchy knit cuffs.

Part number: **08017 48000 012 + COLOUR NO.**

Garment weight: approx. 415 g

Regular sizes: S–XL

Secondary sizes: XS, XXL, XXXL

10 white

41 royal

Wearing comfort: ★ ★

Standards:



EN 61340-5-1



4 | LADIES' COAT SHORT- AND LONG-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.

Long-sleeved version: sleeve hem adjustable via snap fastening.

Part number short-sleeved: **08017 48010 001 10**

Garment weight: approx. 420 g

Part number long-sleeved: **08017 48026 000 10**

Garment weight: approx. 470 g

Regular sizes: XS–L

Secondary sizes: XXS, XL–XXXL

white

Wearing comfort: ★ ★

Standards:



EN 61340-5-1



Permanently reliable product protection: The tried and tested Naptex® ensures a fast and very high conductivity as well as high wearing comfort. The specifically developed metal fibre is protected by patent. All closure seams are additionally edged. Fabric with the quality label „breathability“ of the German Hohenstein certification institute.

MATERIAL: 63 % POLYESTER, 36 % COTTON, 1 % METAL · **FABRIC WEIGHT:** approx. 160 g/m² ·
SURFACE RESISTIVITY: 10⁵ to 10⁶ Ω (used test climate: 23 (±1) °C room temperature, 25 (±5) % air humidity) ·
FIELDS OF APPLICATION: Warehouse works within the electronic manufacturing

Turn-down collar
which may be worn
tightly or open



1 and 2 |
Embroidered
ESD logo



1 | BLOUSON

Single-coloured • turn-down collar, worn tightly closed or open • front with onesided covered snap fasteners • 1 attached front pocket on the left and 2 attached side pockets, each reinforced and with flap and covered snap fasteners • 1 arm pocket on the left • 1 inner pouch pocket on the left • wristband adjustable via snap fasteners • embroidered ESD logo on arm pocket.

Part number: **08017 18000 000 41**

Garment weight: approx. 425 g

Regular sizes: 46–58, 94–110

Secondary sizes: 44, 60–64

 royal

Wearing comfort: ★ ★

Standards:



EN 61340-5-1





2 | TROUSERS

Single-coloured • added waistband with buttoning • 8 belt loops • 2 slant pockets • 1 hip pocket on the right, reinforced, with flap and snap fasteners • 1 ruler pocket on the right with transverse opening • zip fly • embroidered ESD logo on right slant pocket.

Part number: **08017 28000 000 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

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



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: ladies' coat **06002 46004 000 10**
 Garment weight: approx. 245 g
 Regular sizes: XS-L
 Secondary sizes: XXS, XL-XXXL

Part number: men's coat **06002 46003 000 10**
 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® Pro Knit

This cotton blend fabric is exceptionally soft with a maximum of wearing comfort. The knit (not woven) material provides optimum fit. It offers a high level of functionality and excellent conductivity levels. Thanks to the polyester amount it is very colorfast.

MATERIAL: SWEAT JACKET // 60 % POLYESTER, 33 % COTTON, 7 % CARBON ·
 POLO SHIRTS // 48 % COTTON, 48 % POLYESTER, 4 % CARBON · **FABRIC WEIGHT:** approx. 305 g/m² ·
 approx. 170 g/m² · **SURFACE RESISTIVITY:** 10⁶ to 10⁷ Ω (used test climate: 23 (±1) °C room temperature,
 25 (±5) % air humidity) · **FIELDS OF APPLICATION:** Electronics manufacturing



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



1, 2 and 3 | ESD logo on left upper arm



1 | 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

ESD
ELECTRO-
STATIC
DISCHARGE



2 | 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



3 | 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



▶ CONDUCTEX® Cotton Knit

High Functionality – High Comfort: Polo shirts and T-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 10⁷ Ω (used test climate: 23 (±1) °C room temperature, 25 (±5) % air humidity) ·
FIELDS OF APPLICATION: Electronics manufacturing

CONDUCTEX®

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, 3 and 4 |

Collar and sleeve opening manufactured in contrast colour



2 | 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





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 2-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 1-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



1, 2, 3 and 4 |
ESD logo on
left upper arm

Women's shirts
with fitted waist

4 | 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 2-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 1-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



▶ 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:** 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 | 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

2 | SWEAT JACKET 1- 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

ACCESSORIES ESD

ESD gloves reliably prevent electric discharge at places where voltage-sensitive work is performed, making them a key complement for ESD clothing.

ESD
ELECTRO-
STATIC
DISCHARGE



1 | GLOVES

Packaging unit: 10 pairs

Model Nürnberg:

Inner hand with PVC nubs coated

Part number: **08009 76003 000 10**

Material: **upper fabric 100% Polyester, lining 100% Cotton**

Garment weight: approx. 30 g

white



Model Hamburg:

Uncoated, with knitted cuffs

Part number: **08009 76004 000 10**

Material: **100% Nylon**

Garment weight: approx. 20 g

white



Model Bremen:

Fingertips made of polyurethane

Part number: **08009 76006 000 10**

Material: **100% Polyamide**

Garment weight: approx. 20 g

white

Sizes: S-XL

2 | 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





MAKING SURE

YOU ARE COMPLETELY

COVERALL:
HABETEX® Micronplus



DUST-FREE.

In clean rooms, the top priority is keeping the air free from dust. Our clean room and dust protection fabrics meet all requirements according to the recognised cleanliness classes in order to keep the particle concentration as low as possible. The textiles are manufactured precisely according to the specific clean room requirements.





CLEANROOM & DUST MATERIAL AND PRODUCT HIGHLIGHTS

CLEAN

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.



PRACTICALLY NO FLUFFS

Fabric and products play a significant role in cleanroom clothing. The material should not give off any particles, as far as possible, and should represent a fine filter for the particles given off by the body

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. 115 g/m² · approx. 135 g/m² ·

CHARACTERISTICS: particularly high wearing comfort; only chemical cleaning ·

FIELDS OF APPLICATION: Automotive industry, paint shop

HABETEX®

1 | COVERALL LIGHT

Single-coloured • band collar with Velcro fastener • front with covered 2-way zip fastener • 2 front pockets with flaps and covered Velcro fastener • 1 hip pocket on the right with covered Velcro 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 Velcro fastener.

Part number: **06011 37002 001 53**

Material: HABETEX® Cleanroom Viscose / approx. 115 g/m²

Garment weight: approx. 375 g

Regular sizes: 46/48–58/60

Secondary sizes: 42/44 & 62/64

■ grey

Wearing comfort: ★ ★ ★

1, 2 and 3 |

Wristband with let-in piece and leg opening with vent and covered Velcro fastener





2 | COVERALL WITH HOOD

Single-coloured • attached hood, chin area adjustable via Velcro fastener • field of vision and neck adjustable via elastic band • front with covered 2-way zip fastener • 2 front pockets with flaps and covered Velcro fastener • 1 hip pocket on the right with covered Velcro 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 Velcro fastener.

Part number: **06013 37024 001 53**

Material: HABETEX® Cleanroom Viscose / approx. 135 g/m²

Garment weight: approx. 500 g

Regular sizes: 46/48-58/60

Secondary sizes: 42/44 & 62/64

■ grey

Wearing comfort: ★ ★ ★



1, 2 and 3 |
2 front pockets with flaps and covered Velcro fastener

3 | COVERALL

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

Part number: **06013 37003 000 53**

Material: HABETEX® Cleanroom Viscose / approx. 135 g/m²

Garment weight: approx. 455 g

Regular sizes: 46/48-58/60

Secondary sizes: 42/44 & 62/64

■ grey

Wearing comfort: ★ ★ ★



1, 2 and 3 |
Waist adjustment with integrated lateral elastic waistband

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** marine

■ **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

■ marine

Regular sizes: 46/48–58/60

Secondary sizes: 42/44 & 62/64

Wearing comfort: ★ ★ ★





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 Velcro 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 Velcro 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, 1-COLOURED


Single-coloured • turn-down collar • covered 2-way zip fastener • 2 attached front pockets and 1 hip pocket, each with flaps and covered Velcro 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 Velcro fastener • waist adjustment via integrated elastic band with drawstring and stoppers • ventilation via mesh inserts in armpit area • wristbands with vent and Velcro fastener • leg opening with vent and adjustable via Velcro 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 Velcro
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 Velcro fastener • field of vision and neck with adjustment via elastic band • covered 2-way zip fastener • 2 attached front pockets with flaps and covered Velcro fastener • 1 hip pocket on the right with Velcro fastener • waist adjustment with integrated elastic lateral waistband • ventilation via cape collar on back • wristband with let-in piece and Velcro fastener • leg opening with vent and covered Velcro 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: ★ ★



Head cap with individual adjustment



Leg hem with overshoe cap

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: ★ ★

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®



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

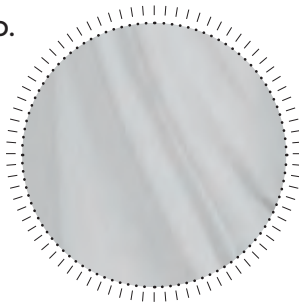
Regular sizes: Unisex S-XL

Secondary sizes: Unisex XS, XXL, XXXL

☐ 10 white

■ 50 silver grey

Wearing comfort: ★ ★



Very soft and light-weight material

ACCESSORIES CLEANROOM

CLEANROOM
& DUST



We offer functional head wear as supplement for cleanroom work – a central element for working without formation 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 Velcro 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



Suitable for larger helmets

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

▶ HOWEVER **COLD** IT IS,
DON'T LET IT

JACKET: TEMPEX® COLD STORE
CLASSIC 2.0



COLD
PROTECTION



GET TO YOU.

If you are working at temperatures as low as -49°C , you need warm clothing. Our cold protection collections for chill rooms and refrigerated warehouses are coordinated so that the individual products complement each other and can be combined however you like to create the ideal protection for your requirements. They range from head to toe and from inside to outside.





COLD PROTECTION
MATERIAL AND PRODUCT HIGHLIGHTS

UP TO -49°C

UNCHALLENGED

A fabric exclusively produced for HB, elaborately designed and manufactured with highest care: This makes us the champion for cold protection garments.

COLD
PROTECTION



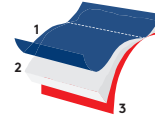
WELL INSULATED

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 ten degrees can be compensated for.

▶ 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. 470 g/m²



1 | MEN'S 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 press studs • 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**

Garment weight: approx. 1,659 g

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

■ navy

Standards:



EN 342



COLD
PROTECTION



.....
Zip-through leg zippers
with inner cover

.....
Preformed legs

2 | MEN'S 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 • raised waistband at the back with hanging loop.

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

Garment weight: approx. 1,400 g

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

■ navy

Standards:

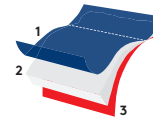


EN 342

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 ladies' versions have a slightly fitted cut. 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 Velcro fastener


1 | JACKET

Two-coloured · tight-fitting collar of faux fur with a Velcro 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. 1,381 g

Part number: **09028 1K009 000 2040** 
Order Picker Jacket with acrylic fur lining
Garment weight: approx. 1,741 g

Part number: **09046 1K012 001 2040** 
Forklift Driver Jacket
Extra-strong non woven insulation
Garment weight: approx. 1,837 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. 1,519 g

Part number: **09045 2K001 000 2040** 
Ladies' Order Picker Trousers
Garment weight: approx. 1,356 g

Part number: **09028 2K006 000 2040** 
Order Picker Trousers with acrylic fur lining
Garment weight: approx. 1,598 g

Part number: **09046 2K007 001 2040** 
Forklift Driver Trousers
Extra-strong non woven insulation
Garment weight: approx. 1,648 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. 1,846 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. 1,884 g

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



EN 342



.....
Raised back

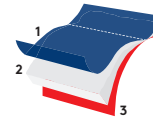
Full-length leg zippers with inner flaps



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 ladies' versions have a slightly fitted cut. 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 Velcro 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. 2,408 g
 Regular sizes: 46/48-58/60 · Secondary sizes: 42/44 & 62/64
 navy/red
 Standards:



EN 342





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 Velcro 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. 3,092 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 Velcro 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. 1,204 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 Velcro fastener

2 | COAT

Three-coloured • tight-fitting collar made of fleece with Velcro 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. 1,364 g
 Regular sizes: 46/48-58/60 · Secondary sizes: 42/44 & 62/64
 white/silver grey
 Standards:

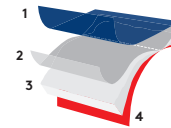


Knee pad pockets

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 developed specially for order pickers which can hold a pick-by-voice computer.

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 Velcro 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. 1,727 g

Part number: **01183 1K006 000 2040** 
Ladies' Order Picker Jacket
 Inside pocket for a pick-by-voice computer
 Garment weight: approx. 1,533 g

Part number: **01183 1K013 000 2040** 
Forklift Driver Jacket
 Extra-strong non woven insulation · Garment weight: approx. 1.839 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. 2,088 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. 1,666 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. 1,807 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 Velcro 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. 1,719 g

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

navy/red

Standards:



EN 342

4 | ORDER PICKER COVERALL

Two-coloured • tight-fitting collar of faux fur with Velcro 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. 2,599 g

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

navy/red

Standards:

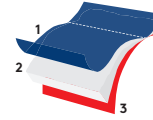


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TEMPEX® CHILLROOM CLASSIC

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 Velcro fastener



Circumferential reflective tape

Female cut

Ladies

Chest pocket with zipper

1 | JACKET

Two-coloured · tight-fitting collar of faux fur with a Velcro 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. 1,297 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. 1,203 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. 558 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. 1,291 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

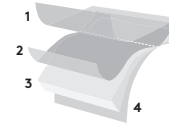
Full-length leg zippers with inner flaps



TEMPEX® CHILLROOM HYGIENE

Smooth surfaces that are particularly easy to clean and inside pockets with zip fastenings make the TEMPEX® CHILLROOM HYGIENE range the ideal choice for anyone responsible for storing and distributing chilled food products. The hard-wearing outer material provides additional protection, suited for 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. 415 g/m²



1 | JACKET

Three-coloured • tight-fitting collar made of fleece with Velcro 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. 1,181 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. 587 g

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

white/silver grey/fluorescent yellow



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

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. 1,199 g

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

white/silver grey

Standards:



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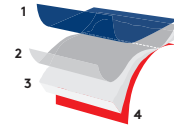


TEMPEX® CHILLROOM COMFORT



The TEMPEX® CHILLROOM COMFORT range can be worn when working in chilled areas with temperatures between 0°C and 10°C. Numerous pockets for tools and a practical inside pocket for a pick-by-voice computer make the chill room jacket the ideal choice for order picking in chill rooms and refrigerated warehouses.

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 Velcro 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. 1,393 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. 1,364 g
Regular sizes: 36/38-44/46 · Secondary sizes: 32/34, 48/50, 52/54

 navy/red

Standards:



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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. 638 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. 1,482 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. 1,298 g
Regular sizes: 36/38 bis 44/46 · Secondary sizes: 32/34, 48/50, 52/54

 navy/red

Standards:

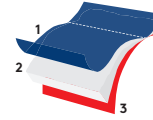


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▶ TEMPEX® CHILLROOM CONTOUR

The TEMPEX® CHILLROOM CONTOUR-clothing has a fresh look thanks to its casual, modern design, while the lightweight fabric ensures excellent wearing comfort. The functional details of this comfortable collection include a large inside pocket for pick-by-voice devices, reflective piping, 2-way zip fastenings and raised kidney protection. Suited for 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. 1,312 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. 1,277 g

Regular sizes: 36/38-44/46

Secondary sizes: 32/34, 48/50, 52/54

■ navy



Inside pocket and cable guide for a pick-by-voice computer

COLD
PROTECTION



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. 848 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. 1,177 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

Covered front zipper

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.

MATERIAL: 100 % Polyamide · **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. 433 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. 444 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. 304 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. 314 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. 368 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. 398 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. 433 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. 444 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. 304 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. 314 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. 368 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. 398 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.

MATERIAL: 100 % Polyamide · **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. 446 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. 432 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

1, 2, 4 and 5 | Side pocket



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. 401 g

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

Part number: **09020 2K011 000 45**

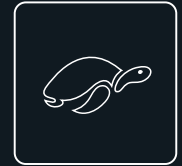
Ladies' Thermal Trousers

Garment weight: approx. 348 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. 446 g

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

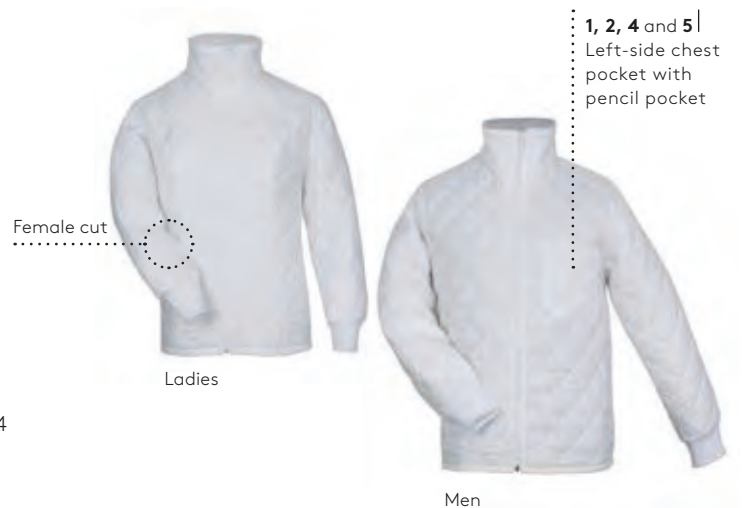
Part number: **09020 1K010 000 10**

Ladies' Thermal Jacket

Garment weight: approx. 432 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. 401 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. 348 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: 100 % Polyester · **FABRIC WEIGHT:** approx. 264 g/m² / approx. 164 g/m² (Shirt)

1 | JACKET

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

Part number: **07024 1K003 000 45**

Men's Fleece Jacket

Garment weight: approx. 531 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. 358 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. 371 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

These undershirts and underpants not only protect the wearer against the cold, they are also comfortable and highly functional. Raglan sleeves and an elasticated waistband offer enhanced comfort, whilst the material composition ensures good ventilation during intensively active work.

1 | 2-LAYER SHIRT, LONG SLEEVE

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. 213 g
Sizes: 4-8
■ navy



1, 2 and 3 |
Non-bulky flat seams

2 | 2-LAYER SHIRT, LONG SLEEVE, 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. 228 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

Velcro 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 • Velcro 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 • Velcro 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 • Velcro 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



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



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

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 toecaps ensure additional safety. Easy to put on and featuring a genuine lambswool or felt 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 toecap.

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

Sizes: 37-50

 **2001** white/yellow
 **2046** black/red



Insulated steel toecap

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 | S2 SAFETY FELT SHAFT BOOTS WITH STEEL TOECAP

Two-coloured • made of grained, water-resistant cow leather • shaft made of wool felt • nonslip, cold • resistant and cold-insulated outsole • felt lining • felt insole • insulated steel toecap.

Part number: **14003 7Z011 003 2277**

Sizes: 36–50

■ ■ black/beige

Standards:



EN 20345



4 | 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



5 | 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



6 | LINER SOCKS

Single-coloured • made of tricot • flannel lining.

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

Sizes: 38–47

Sale unit: 1 piece

■ middle grey



▷ DO YOU **HAVE**

WHAT IT TAKES TO

BLOUSON: CERTIFIED DAY
SHIFT WEAR FOR FIREMEN





BE THERE FOR OTHERS?

Firefighting is a vocation that plays an important role in protecting us in a world filled with technology. Our Flammgard® product line includes station wear that meets the complex requirements by those who work in this profession. We communicate constantly with our customers, taking on board suggestions and ideas. This allows us to develop highly individualised solutions that are tailored precisely to the specific needs of individual German federal states, for example.





COMMUNICATION MATTERS

Our day shift wear for firemen 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. The station wear can be adapted to the various standards required by the individual German federal states.

FLAMMGARD



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 press studs • 2 breast pockets with flaps and press stud fastening • right-hand pocket with pen compartment and flap with Velcro 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 press stud • 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



Loop for radio antenna micro

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 press studs covered on both sides • 2 breast pockets with flaps and press studs • right-hand pocket with pen compartment and Velcro 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 press stud • 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





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

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 press studs, 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

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



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

Waistband with hook fastening and elasticated on the sides



4 | ADDITIONAL ACCESSORIES

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

Adapter for rank badge

Flap with Velcro fastening.

Name badges

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



BADEN-WÜRTTEMBERG

For Baden-Württemberg, there are an additional softshell jacket and fleece jacket in alternative materials. 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. 240 g/m² · **FIELDS OF APPLICATION:** day shift wear
 for firemen Baden-Württemberg



4 | SOFTSHELL JACKET

Two-coloured • piping on front and back • shoulder tunnel for rank badge • collar with flap and Velcro fastening • front zipper with covered press studs • 2 breast pockets with flaps and press studs • right-hand pocket with pen compartment and flap with Velcro 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 press stud • 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: ★ ★

Velcro for
name badge



Decorative piping on
front and back

5 | FLEECE JACKET

Two-coloured • piping on front and back • shoulder tunnel for rank badge • stand-up collar • fastener strip with zip and covered press studs on both sides • 2 breast pockets with flaps and zips • right-hand flap with Velcro 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 Velcro 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 Velcro fastening • front zipper with press studs covered on both sides • 2 breast pockets with flaps with Velcro fastening • right-hand pocket with pen compartment and Velcro 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 press stud • 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 Velcro fastening • front zipper with press studs covered on both sides • 2 breast pockets with flaps with Velcro fastening • right-hand pocket with pen compartment and Velcro 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 press stud • 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. 240 g/m² ·
FIELDS OF APPLICATION: 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 Velcro fastening · 2 bellow pockets on the side seam with flaps and Velcro 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

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 Velcro 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 Velcro fastening • front zipper with covered press studs • 2 breast pockets with flap and press stud • right-hand pocket with pen compartment and Velcro 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 press stud • 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: ★ ★



Decorative piping on front and back

Velcro for name badge

6 | FLEECE-JACKET

Two-coloured • piping on front and back • shoulder tunnel for rank badge • stand-up collar with zip fastening • front zipper with press studs covered on both sides • 2 breast pockets with flaps and Velcro fastening • right-hand flap with Velcro 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

NORTH RHINE-WESTFALIA

For our NRW day-shift wear for firemen which is made of a top-quality NOMEX® Aramid 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



Velcro for name badge

Flap with embroidery



1 | BLOUSON

Single-coloured • shoulder tunnel for rank badge • collar with flap and Velcro fastening • front zipper with press studs covered on both sides • 2 breast pockets with flaps and zips • right-hand flap with Velcro 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 Velcro; 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 2240**

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 2240**

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/red

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

EN ISO 13688
HuPF 2

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

3 | ADDITIONAL ACCESSORIES

Also available for North-Rhine-Westfalia blouson:

Adapter for rank badge

Flap with Velcro fastening.

Name badges

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



▶ CLASSIC

The dark blue day-shift wear in the Classic product line is produced in a hard-wearing, high-quality 300 g/m² strong fabric quality. As a basic collection, it comprises additional trouser variants with an elasticated waistband or without a lining. Here, too, the women's trousers have an optimised cut with a shorter waist height.

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



1 | BLOUSON

Single-coloured • shoulder tunnel for rank badge • collar with flap and Velcro fastening • front zipper with covered press studs on both sides • 2 breast pockets with flaps with zip • right-hand flap with Velcro 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 Velcro • hem elasticated on the side • back with side folds for freedom of movement.

Part number: **01041 10179 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



Adapters available for any kind of shoulder tunnel

Velcro for name badge

2 | JACKET

Single-coloured • shoulder tunnel for rank badge • collar with flap and Velcro fastening • front zipper with press studs covered on both sides • breast pockets with flaps and Velcro fastening • right-hand flap with Velcro 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 Velcro • 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



Reinforced elbows



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

Part number: **01041 20117 000 48**

Ladies' trousers

Garment weight: approx. 700 g
 Regular sizes: 36-46, 17-23, 68-92
 Secondary sizes: 48-60, 24-30, 96-124
 Wearing comfort: ★ ★

Part number: **01041 20086 001 48**

Men's trousers unlined

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

Part number: **01041 20109 000 48**

Men's trousers with elasticated waistband

Garment weight: approx. 730 g
 Regular sizes: 44-54, 24-27, 90-106
 Secondary sizes: 56-66, 28-32, 110-122
 Wearing comfort: ★ ★ ★

■ dark blue

Wearing comfort: ★ ★ ★
 Standards (only men's trousers):



EN ISO 11612
 A1/A2/B1/C1

EN ISO 13688
 HuPF 2

4 | ADDITIONAL ACCESSORIES

Also available for Classic blouson and jacket:

Adapter for rank badge

Flap with Velcro fastening.

Name badges

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



Also available with elasticated waistband



▶ CLASSIC

The Classic trousers are also available with reflective stripes with a yellow background. Additionally, there is a fleece jacket in the Classic collection made of a comfortable, light fabric of just 240 g/m².

MATERIAL: TROUSER // 49% ARAMIDE, 50% VISCOSE FR, 1% CARBON · **FLEECE** // 100% POLYESTER ·
FABRIC WEIGHT: approx. 300 g/m² · approx. 240 g/m² ·
FIELDS OF APPLICATION: certified day shift wear for firemen



5 | TROUSERS+REFLECTIVE

Single-coloured • 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 • reflective stripes parallel to the seam • no Hi-Vis protective clothing acc. to EN ISO 20471 • seat seam designed to be easy to modify.

Part number: **01041 20086 008 48**

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: **01041 20117 003 48**

Ladies' trousers

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

■ dark blue

Wearing comfort: ★ ★ ★

Standards (only men's trousers):



EN ISO 11612
 A1/A2/B1/C1

EN ISO 13688
 HuPF 2

6 | FLEECE-JACKET

Single-coloured • stand-up collar with zip fastening • front zipper • breast pocket with flap and Velcro 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

■ navy

Wearing comfort: ★ ★ ★



TECHNICAL ASSISTANCE/DGUV

FLAMMGARD



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 Velcro 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 Velcro fastening • front zipper with press studs covered on both sides • 2 breast pockets with flaps and Velcro fastening • right-hand pocket flap with Velcro 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 Velcro fastening • hem with drawstring • back with Velcro 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/G1



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/G1

EN ISO 13688
HuPF 2





OVERVIEW PRODUCT LINES

	Product Line	Fabric Composition Upper material	Fabric weight (approx. ... g/m ²)	Retro Reflective	Attachment FR-Patch ¹⁾	 IEC 61482-2	
ARC & ENERGY	HB-SecureAllround®	75% CO, 24% PES, 1% Carbon, FC-Equipment	360	✓			
	HB-FlameSoft®	87% CO, 12% PA, 1% Carbon	360 + 260	✓			
	INDURA® UltraSoft®	88% CO, 12% PA	340		✓		
	HB-ArcPro	50% CO, 39% MAC, 10% CV, 1% Carbon	295	✓	✓		
	HB-ArcClassic & Vis	31% PES, 28% MAC, 20% AR, 20% CV, 1% Carbon	320	✓	✓		
	HB-4arc®	87% CO, 12% PA, 1% Carbon	390	✓	✓		
	HB-MODarc	55% MAC, 43% CO, 2% Carbon	275 + 175		✓		
	HB-MODarc + Reflective	55% MAC, 43% CO, 2% Carbon	275 + 175	✓	✓		
	HB-MODarc & vis	55% MAC, 43% CO, 2% Carbon	275 + 175	✓	✓		
			54% MAC, 44% CO, 2% Carbon	215		✓	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	✓				
HB-FlameSoft®	87% CO, 12% PA, 1% Carbon	280					
INDURA® UltraSoft® knit	88% CO, 12% PA	220		X			
HEAT, FLAME & SPLASHES	PROBAN®	100% CO	470		X		
			380				
			320				
	SECAN® Plus	100% CO	395				
			330				
	SECAN® Securo	98% CO, 2% Carbon	410		✓		
			460		✓		
	SECAN® Plus & KEVLAR®	100% CO / 100% AR	410 + 220		✓ KEVLAR®		
	HB-4welders® 2.0	89% CO, 10% PA, 1% Carbon	390			APC 1	
	NOMEX® III	99% AR, 1% Metal	260 + 190		✓		
	Titan	60% CV, 40% AR	245		X		
	HB-FluidMetal Pro	50% CO, 39% MAC, 10% CV, 1% Carbon	340		✓		
			52% CO, 37% MAC, 10% CV, 1% Carbon	430		✓	
	MARLAN	50% CV FR, 30% WO, 20% PA	365		✓		
	VINEX®	85% Vinylal, 15% Modal	390			APC 1	
			285				
	HB-Cement Pro	70% PA, 30% AR	300		X		
	TEMPEX® TREME HEAT						
	CK-10/Z ¹⁰⁾	70% Preox, 30% AR	370				
	CK-11/Z ¹⁰⁾	70% Preox, 30% AR	490				
KF-3/Z ¹⁰⁾	100% AR	460					
KF-3/ZF	100% AR	480					
KF-4/Z ¹⁰⁾	51% Glas, 49% AR	690					
RF-1/Y ¹⁰⁾	100% CV	585					
HIVIS & WEATHER	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	✓	✓		
	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	✓	✓		
	HI-VISION® FR Trousers	55% MAC, 43% CO, 2% Carbon, PU-Membrane	300		✓		
	Innerfleece FR	48% MAC, 32% CO, 18% PES, 2% Carbon	360	✓			
	HI-VISION® FR Softshell						
	fluorescent orange/yellow	40% MAC, 15% CO, 20% PES, 12% AR, 12% CV, 1% Carbon	540	✓	✓		
	Fleecejacket FR	48% MAC, 32% CO, 18% PES, 2% Carbon	360	✓			
	HI-VISION® FR Reflective Vest	55% MAC, 43% CO, 2% Carbon	275	✓	✓		
	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	✓	✓		


1) ✓ = Certified & recommended, X = certified, not recommended. Applies to patches with a max. size of 166,5 cm²; larger patches need to be certified individually.
 2) Test method: EN 61482-1-2. 3) According to previous standard ENV 56354. 4) According to previous standard EN 470-1. 5) According to previous standard EN 531. 6) Blouson + Trousers or Bib and brace trousers worn together. 7) According to previous standard EN 471. 8) Does not apply to blouson and trousers.
 9) Applies to two-coloured overall. 10) No emblems or embroideries allowed. 11) Embroideries are allowed. 12) Reflective ribbon. 13) 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	MULTI-RISK	21 TO WEAR®
Class 1	Cl. 1	A/B1/C1/E2/F1	✓	✓							✓	✓
Class 1/2	Class 1	A/B1/C1/F1	✓								✓	✓
Class 1	Class 1	A/B1/C1/E3										
Class 1/2	Class 1	A/B1/C1/D1/E1/F1	✓									
Class 1 ²⁾	Class 2 A1	A1/B1/C1/E1/F1	✓	Type 6	Class 3 ⁴⁾							
Class 2	Class 1	A/B1/C1/F1	✓								✓	✓
Class 1/2	Class 1	A/B1/C1/F1	✓	Type 6							✓	✓
Class 1/2	Class 1	A/B1/C1/F1	✓	Type 6							✓	✓
Class 1/2	Class 1	A/B1/C1/F1	✓	Type 6	Class 3 ⁴⁾						✓	✓
		A/B1/C1/F1	✓		Class 2							
Class 1	Class 1	A1/B1/C1	✓								✓	✓
Class 1		A1/B1/C1/F1	✓									
		A1/B1/C1/F1	✓									
Class 1/2		A1/B1/C1/F1	✓									
Class 1	Class 1	A/B1/C1/E1/F1	✓									
Class 1		A1/B1/C1										
	Class 2 A1	A1/B1/C1										
	Class 2 A1	A1/B1/C1/E2/F1										
	Class 1	A1/B1/C1/E3/F1										
	Class 2	A/B1/C1/E2/F1										
	Class 1	A/B1/C1/E2/F1										
	Class 2	A/B1/C1/E3/F1										
Class 1	Class 2	A/B1/C1/E3/F1	✓								✓	✓
	Class 2	A/B1/C1/E2/F1										
	Class 2	A/B1/C1/E3/F1	✓									
		A1/B1/C1/F1	✓									
	Class 1	A1/B1/C1/E1										
Class 1	Class 1	A/B1/C1/D2/E2/F1	✓								✓	
Class 1	Class 2	A/B1/C1/D3/E3/F1	✓								✓	
	Class 1	A1/B1/C1/D3/E3/F1										
		A/B1/C1/D3/E3										
		A/B1/C1/D1/E1/F1										
		A1/B1/C1/E1										
		A1/B1/C2/D3/E3										
		A1/B1/C3/D3/E3/F1										
		A1/B1/C3/D3/E3/F1										
		A1/B1/C3/D3/E3/F1										
		A1/B1/C3/D3/E3/F1										
		A1/B1/C4										
Class 2	Class 1	A1/B1/C1/E1/F1	✓	Type 6		Class 3/3					✓	
Class 2 ³⁾	✓ ⁴⁾	A1/B1/C1/E1 ⁵⁾	✓	Type 6	Class 2 ⁷⁾	Class 3/3					✓	
Class 2		A1/B1/C1/F1	✓			Class 3/3					✓	
Class 2	Class 1	A1/B1/C1	✓	Type 6	Class 3	Class 3/3					✓	✓
Class 1	Class 1	A1/B1/C1	✓	Type 6	Class 1	Class 3/3					✓	✓
								Class 1			✓	
Class 2	Class 1	A1/B1/C2/F2	✓		Class 2						✓	✓
Class 1		A1/B1/C1	✓		Class 2			Class 1			✓	✓
		A/B1/C1/F1	Material: ✓		Class 2							✓
Class 2	Cl. 2 A1	A1/B1/C1/E1/F1	✓	Type 6	Class 3 ²⁾	Class 3/3					✓	
Class 2 ²⁾	Cl. 2	A1/B1/C1/E1/F1	✓	Type 6	Class 3 ²⁾	Class 3/3						



OVERVIEW PRODUCT LINES

	Product Line	Fabric Composition Upper material	Fabric weight (approx. ... g/m ²)	Retro Reflective	Attachment FR-Patch ¹⁾	 IEC 61482-2
HIVIS & WEATHER	HB-MultiPro Fleece FR	48% MAC, 32% CO, 18% PES, 2% Carbon	360			
	HI-VISION® Basic Jacket	100% PES	155	✓		
	HI-VISION® Basic Bib and brace trousers	100% PES	155	✓		
	HI-VISION® Basic Parka Antistatic	99% PES, 1% Carbon	150	✓		
	HI-VISION® Basic Parka	100% PES	195	✓		
	HI-VISION® Basic Softshell	100% PES	270	✓		
	HI-VISION® Basic Fleece	100% PES	258			
	HI-VISION® Basic Reflective Shirts	55% CO, 45% PES	185	✓		
	HB-StormBase® Parka + Brace trousers	99% PES, 1% Carbon	150	✓		
HB-AlpineActive®	100% PES	155/265				
CHEMICALS	HB-CHEMstandard	100% PA, FC-Equipment	270			
	HB-CHEMclassic	100% PA, FC-Equipment	260			
	HB-CHEMcomfort antistatic	99% PA, 1% Carbon, FC-Equipment	240			
ESD	CONDUCTEX®	75% PES, 23% CO, 2% Carbon	130			
	Naptex®	63% PES, 36% CO, 1% Steel	160			
	CLEANTEX®	98% PES, 2% Carbon	100			
	CONDUCTEX® Pro Knit	60% PES, 33% CO, 7% Carbon	305			
		48% CO, 48% PES, 4% Carbon	170			
	CONDUCTEX® Cotton Knit	95% CO, 5% Carbon	300			
		160				
CLEANROOM	HABETEX® Viscose / Viscose light	100% CV	135			
			115			
	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				
COLD PROTECTION	TEMPEX® COLD STORE CLASSIC 2.0 ¹¹⁾	100% PA	470	✓ ¹²⁾		
	TEMPEX® COLD STORE CLASSIC ¹¹⁾	100% PA	520	✓ ¹²⁾		
	TEMPEX® COLD STORE PLUS CLASSIC ¹¹⁾		645	✓ ¹²⁾		
			560	✓ ¹²⁾		
			630	✓ ¹²⁾		
	TEMPEX® COLD STORE HYGIENE ¹¹⁾	100% PA	515			
	TEMPEX® COLD STORE COMFORT ¹¹⁾	100% PA	545/645	✓ ¹³⁾		
	TEMPEX® CHILLROOM CLASSIC ¹¹⁾	100% PA	415	✓ ¹²⁾		
	TEMPEX® CHILLROOM HYGIENE ¹¹⁾	100% PA	415			
	TEMPEX® CHILLROOM COMFORT ¹¹⁾	100% PA	445	✓ ¹³⁾		
	TEMPEX® CHILLROOM CONTOUR ¹¹⁾	100% PA	415	✓ ¹³⁾		
	TEMPEX® THERMO + THERMO ERGOPLUS	100% PA	245			
	TEMPEX® COLD PROTECTION FLEECE	100% PES	264/164			X
FLAMMGARD	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			
	NORTH RHINE-WESTFALIA	59% AR, 40% VISCOSE FR, 1% Carbon	260			
	CLASSIC	49% AR, 50% VISCOSE FR, 1% Carbon	300			
	TECHNICAL ASSISTANCE/DGUV	49% AR, 50% VISCOSE FR, 1% Carbon	300			

1) ✓ = Certified & recommended, X = certified, not recommended. Applies to patches with a max. size of 166,5 cm²; larger patches need to be certified individually.

2) Test method: EN 61482-1-2. 3) According to previous standard ENV 56354. 4) According to previous standard EN 470-1. 5) According to previous

standard EN 531. 6) Blouson + Trousers or Bib and brace trousers worn together. 7) According to previous standard EN 471. 8) Does not apply to blouson and trousers.

9) Applies to two-coloured overall. 10) No emblems or embroideries allowed. 11) Embroideries are allowed. 12) Reflective ribbon. 13) 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	MULTI-RISK	21 TO WEAR®
Class 1		A1/B1/C2/F1			Class 3 Class 1 Class 2 Class 2 Class 2/3	Class 3/3 Class 3/3 Class 3/3 Class 3/3		Class 1				
			✓		Class 2	Class 3/3						
			✓		Class 2	Class 3/3						
				Type 6 Type 6 Type 6								✓
			✓									✓ ⁸⁾ ✓ ⁸⁾
										✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓		
												✓ ⁹⁾
		A1/A2/B1/C1							✓ ✓ ✓ ✓ ✓ ✓ ✓ ✓			
		A1/A2/B1/C1 A1/A2/B1/C1 A1/A2/B1/C1 A1/A2/B1/C1										

STANDARDS



IEC 61482-2

IEC 61482-2:2009 (preceeding 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"; preceeding 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

(Vorgängernorm: prEN 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 50286

Electrical insulating protective clothing for work on low-voltage installations

This standard defines the test methods

and performance requirements for protective clothing for live working or for work near live cables up to 500 V AC or 750 V DC (e.g. low-voltage installations, low-voltage overhead lines). This protective clothing should prevent the passage of electrical current when the wearer comes into contact with live cables/elements. To pass the test, the material must prevent disruptive discharge or flashover in three test situations: 1. in dry conditions, 2. in damp conditions, 3. after simulation of rainfall. The material is also tested for breathability, tensile force and tear-out force, and behaviour with regard to limited flame spread.



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, snow-flakes), fog and ground humidity. Waterproofness and resistance to water vapour are the properties that must be tested and indicated on the label. The various classes for resistance to water vapour provide an indication for the recommended wearing time in different ambient temperatures.



EN 13758-2

Solar UV protective properties; EN 13758 Part 1: Method of test for apparel fabrics; EN 13758 Part 2: Classification and marking of apparel

The European standard 13758-1 defines the method for determination of permeability of ultraviolet solar radiation for textiles; EN 13758-2 sets out the classification and identification of the clothing. As solar radiation causes skin diseases, only covered surface areas are protected of type UV-A and UV-B radiation.



EN 14058

Protective clothing - Garments for protection against cool environments

This European standard specifies the requirements and test methods for wear behaviour of garments for protection against cool environments. Use of tested garments in environments with an air temperature of -5 °C and higher. Identification should include classification of overall heat transfer resistance.



EN 342

Protective clothing - Ensembles and garments for protection against cold.

This standard defines the test methods and performance requirements for protective clothing against cold of -5 °C or lower. It tests the thermal insulation and air permeability of the clothing. The test result states how long the wearer of the protective clothing can remain at certain temperatures when stationary or when performing tasks involving small or moderate amounts of movement. 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 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.

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.



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.

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."

▶ YOUR LOGO

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.



ATTACHMENT OF EMBLEMS AND PATCHES ON CERTIFIED CLOTHING

	Concerned standards	Jackets, overalls, coats and shirts		Bib and brace trousers	Notes
		Attachment possibilities Back part	Attachment possibilities Front part	Attachment possibilities	
EMBROIDERED EMBLEMS	EN 61482 ¹ EN 11612 A, B, C EN 11612 Code E ³ EN 11611 EN 1149-5 EN 13034 Typ 6 EN 471 + 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	EN 61482 ¹ EN 11612 A, B, C, E EN 11611 EN 13034 Typ 6 EN 1149-5 EN 471 + 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	EN 61482 ¹ EN 11612 A, B, C, E EN 11611 EN 13034 Typ 6 EN 1149-5 EN 471 + 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	EN 61482 ¹ EN 11612 A, B, C, E EN 11611 EN 13034 Type 6 EN 1149-5 EN 471 + 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 EN471 + 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



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.



INSULATION VALUES COLD PROTECTION

	Part Number	Part	Insulation value ICLER (m²K/W) R-value		Insulation value ICLE	Light duty 115 W/m²		Medium duty 170 W/m²	
						Duration of use 8 h	Duration of use 1 h	Duration of use 8 h	Duration of use 1 h
CLASSIC 2.0 COLD STORE	01174 1K014 000	Men's order picker jacket	0,664	(B) x 2 x	4,3	-29 °C	-49 °C	-49 °C	-49 °C
	01174 2K012 000	Men's order picker trousers	0,664	(B) x 2 x	4,3				
CLASSIC COLD STORE	09028 1K009 000	Order picker jacket Teddy	0,364	(B) x 2 x	2,3	-6 °C	-22 °C	-25 °C	-41 °C
	09028 2K006 000	Order picker trousers Teddy	0,364	(B) x 2 x	2,3				
	09045 1K000 000	Men's order picker jacket	0,487	(B) x 2 x	3,1	-17 °C	-37 °C	-41 °C	-49 °C
	09045 2K000 000	Men's order picker trousers	0,487	(B) x 2 x	3,1				
	09045 1K001 000	Ladies' order picker jacket	0,487	(B) x 2 x	3,1	-17 °C	-37 °C	-41 °C	-49 °C
	09045 2K001 000	Ladies' order picker trousers	0,487	(B) x 2 x	3,1				
	09045 3K000 000	Order picker coverall	0,484	(B) x 2 x	3,1	-16 °C	-37 °C	-40 °C	-49 °C
	09045 4K000 000	Coat	0,353	(R) x 2 x	2,3	-5 °C	-20 °C	-24 °C	-39 °C
	09046 1K012 000	Forklift driver jacket long-term	0,553	(B) x 2 x	3,6	-29 °C	-46 °C	-49 °C	-49 °C
	09046 2K007 000	Forklift driver trousers long-term	0,553	(B) x 2 x	3,6				
	09046 1K012 001	Forklift driver jacket	0,566	(B) x 2 x	3,7	-24 °C	-47 °C	-49 °C	-49 °C
09046 2K007 001	Forklift driver trousers	0,566	(B) x 2 x	3,7					
COMFORT COLD STORE	011831 K005 000	Men's order picker jacket	0,563	(B) x 2 x	3,6	-24 °C	-47 °C	-49 °C	-49 °C
	01183 2K002 000	Men's order picker trousers	0,563	(B) x 2 x	3,6				
	01183 2K003 000	Ladies' order picker trousers	0,563	(B) x 2 x	3,6	-24 °C	-47 °C	-49 °C	-49 °C
	01183 1K006 000	Ladies' order picker jacket	0,563	(B) x 2 x	3,6				
	01183 1K013 000	Forklift driver jacket	0,691	(B) x 2 x	4,5	-35 °C	-49 °C	-49 °C	-49 °C
	01183 2K010 000	Forklift driver trousers	0,691	(B) x 2 x	4,5				
	01183 3K001 000	Order picker coverall	0,498	(B) x 2 x	3,2	-18 °C	-39 °C	-42 °C	-49 °C
	01183 4K001 000	Coat	0,376	(R) x 2 x	2,4	-7 °C	-23 °C	-26 °C	-43 °C
	01183 1K018 000	Forklift driver jacket long-term	0,711	(B) x 2 x	4,6	-37 °C	-49 °C	-49 °C	-49 °C
01183 2K010 000	Forklift driver trousers	0,711	(B) x 2 x	4,6					
HYGIENE COLD STORE	01174 1K005 001	Order picker jacket	0,508	(B) x 2 x	3,3	-19 °C	-40 °C	-44 °C	-49 °C
	01174 2K008 003	Order picker trousers	0,508	(B) x 2 x	3,3				
	01174 4K001 001	Coat	0,376	(R) x 2 x	2,4	-7 °C	-23 °C	-26 °C	-43 °C

IMPORTANT! 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 EN 342 cold protection standard. 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		collar size		UNISEX			
UNISEX	chest [inch]	german size	chest [inch]	german size	chest [inch]	german size	waist/length [inch]	german size	waist/length [inch]	german size	waist/length [inch]	german size	collar size [inch]	german size	UNISEX	german size		
XS	30" S	20	30" R	40	30" L	86	28"/26"	21	28"/28"	42	29"/30"	88	14"	35/36	2XS	6"	32	
	32" S	21	32" R	42	32" L	88							15"	37/38				
S	34" S	22	34" R	44	34" L	90	30"/28"	22	30"/30"	44	30"/32"	90	15,5"	39/40	XS	8"	34	
	36" S	23	36" R	46	36" L	94	32"/28"	23	32"/30"	46	32"/32"	94	16,5"	41/42				
M	38" S	24	38" R	48	38" L	98	34"/28"	24	34"/30"	48	34"/32"	98	17"	43/44	S	12"	38	
	40" S	25	40" R	50	40" L	102	35"/28"	25	35"/30"	50	35"/32"	102	18"	45/46				
L	42" S	26	42" R	52	42" L	106	36"/30"	26	36"/32"	52	36"/34"	106	19"	47/48	M	16"	42	
	43" S	27	43" R	54	43" L	110	38"/30"	27	38"/32"	54	38"/34"	110	19,5"	49/50				
XL	44" S	28	44" R	56	44" L	114	40"/30"	28	40"/32"	56	40"/34"	114	20"	51/52	L	20"	46	
	46" S	29	46" R	58	46" L	118	42"/30"	29	42"/32"	58	42"/34"	118	21"	53/54				
2XL	48" S	30	48" R	60	48" L	122	44"/32"	30	44"/34"	60	44"/36"	122	22"	55/56	XL	24"	50	
	50" S	31	50" R	62	50" L	126	46"/32"	31	46"/34"	62	46"/36"	126	23"	57/58				
3XL	52" S	32	52" R	64	52" L	130	48"/32"	32	48"/34"	64	48"/36"	130	24"	59/60	2XL	28"	54	
	56" S	33	56" R	66	56" L	134	50"/32"	33	50"/34"	66	50"/36"	134						

Note: Sizes of older models may correspondingly deviate from these values.

Regular Sizes, on stock Secondary sizes, 21 to wear delivery available Outsize range, custom-made on demand.

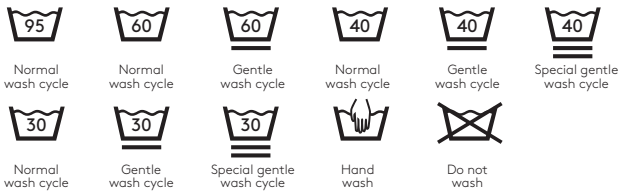
CUSTOMISED SIZES

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.



NOTE ON FLEECE MATERIAL

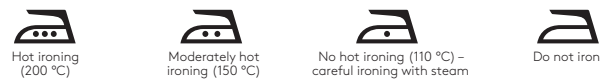
Fleece material may produce lint initially, depending on the design. This will stop after a few washes.

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.

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.



▶ 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.



HIGHSPEED 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.


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.



COLDSTORE PLUS
Clothing for low-movement tasks at temperatures down to -49 °C



COLDSTORE
Clothing for high-movement tasks at temperatures down to -49 °C



CHILLROOM
Clothing for work in moderately cold conditions

WEARING COMFORT		
	Surface feel	Weight of goods
★	solid textile feel	360 g/m ²
★★	smooth	360 g/m ²
★★★	very soft	185 g/m ²

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