

GENERAL CATALOGUE 2023

# PROTECTIVE WEAR



PHILOSOPHY

HB  
PROTECTIVE  
WEAR



ARC &  
ENERGY



ARC FLASH PROTECTION

HEAT, SPLASHES AND  
WELDING PROTECTION

HEAT,  
SPLASHES &  
WELDING



CHEMICALS



CHEMICAL PROTECTION

HIGH VISIBILITY AND  
WEATHER PROTECTION

HIVIS &  
WEATHER



COLD  
PROTECTION



COLD PROTECTION

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

FIRE &  
RESCUE  
SERVICES



ESD  
ELECTRO-  
STATIC  
DISCHARGE



ESD PRODUCT PROTECTION

CLEANROOM AND  
DUST PROTECTION

CLEANROOM  
& DUST







# EDITORIAL

HB PROTECTIVE WEAR: BE SAFE. WE CARE.

Dear Sir or Madam,  
Dear business partners and customers,

Despite the ongoing crises, the year 2022 was a very special one for us, because we can look back on 70 successful years entirely dedicated to PPE. From the very beginning, our focus has been exclusively on the development and manufacture of protective clothing. That is unique in Germany.

Today, we are the **quality and market leader** in our industry – and so are our products. Among other things, we are proving this with our new general catalogue 2023. Because, as always, we are not satisfied with what we have achieved, but are constantly improving our products. This also applies to our bestsellers.

For example **SECAN® Securo**, our classic for protection against liquid iron splashes. We have completely revised the collection and given it an ergonomic fit and a dynamic design. Both are convincing, as is the new lighter fabric, which continues to offer flame resistance up to 50 industrial washes in the usual SECAN® quality. Reflective stripes and fluorescent elements increase the visibility of people in dark surroundings, now also certified according to EN 17353. Matching this relaunch is also the new name: **HB-Iron Pro**. More on this from page 72.

With the re-designed **INOTEC® Arc & Energy** collection, we also offer versatile multi-risk PPE for demanding and changing work environments in the arc fault segment. The new zip-in membrane as liner trousers in 2-layer laminate provides additional moisture protection in the colder season. To be seen from page 64.



In our **FIRE & RESCUE SERVICES** product segment, we have developed the successful HB-WILDFIRE collection together with a professional fire brigade and adapted it to meet the increased demands of firefighting in open terrain. A lightweight outer material plus inner lining with hydrophilic finish, segmented reflective stripes and high-visibility vest exemption are just some of the features that make our new **HB-WILDFIRE 2.0**

a safe and comfortable outfit that reliably protects while relieving physical strain. Available in three colours plus a separate back collar in six colours. Find out more from page 174.

In addition, our **cold protection range** comes up with a completely renewed glove programme. And of course, in the new HB catalogue you will again find many PPE solutions with **women's power**: ladies' models for more than 25 collections.

We owe our success to our many years of experience in PPE and our extensive expertise in standardisation and processing. I would like to take this opportunity to thank all of our employees who work with passion and ambition every day to provide our customers with the best possible solution for protection against hazards in the workplace.

I hope you enjoy reading this report, in keeping with our brand promise:  
**„BE SAFE. WE CARE.“**  
Stay healthy!

Klaus Berthold  
CEO  
Owner of HB Protective Wear

# ▶ CONTENT

## HB PROTECTIVE WEAR

### THE COMPANY

Sustainable protection is our brand core – for 70 years now .....	06
Quality, service and responsibility: This means HB Protective Wear .....	08
Protected against many dangers: Highly functional Multi-risk protection from HB .....	20

## ARC & ENERGY

<b>ARC FLASH PROTECTION .....</b>	<b>22</b>
HB-BodySafe .....	24
HB-SecureAllround® .....	26
HB-ArcSelect® Shirt, men's coat .....	28
HB-ArcSelect® Blouson, trousers, bib and brace trousers .....	30
HB-4arc® .....	32
HB-PROtection® Jacket, trousers, bib and brace trousers .....	34
HB-PROtection® Shirt .....	36
HB-MODarc® Polo shirt, T-shirt, fleece jacket .....	38
HB-MODarc® Blouson, trousers, bib and brace trousers .....	40
HB-MODarc® Blouson, trousers, bib and brace trousers with reflective stripes .....	42
HB-MODarc&vis® Polo shirt, Vest FR .....	44
HB-MODarc&vis® Blouson, trousers, bib and brace trousers .....	46
HB-MODarc&vis® Softshell jacket, fleece jacket .....	48
HB-MODarc&vis® Fleece jacket, parka with liner .....	50
HB-MODarc&vis® Parka with direct laminate, brace trousers .....	52
HB-MultiPro FR® .....	54
NOMEX® Viskose .....	56
NOMEX® Comfort Blouson, jacket, coat .....	58
NOMEX® Comfort Trousers, bib and brace trousers, coverall .....	60
INOTEC® Arc & Energy .....	62

## HEAT, SPLASHES & WELDING

<b>HEAT, SPLASHES AND WELDING PROTECTION .....</b>	<b>64</b>
PROBAN® 320 / 380 / 470 .....	66
SECAN® Plus 330 / 395 .....	68
SECAN® Securo 420 .....	70
HB-Iron Pro .....	72
HB-4welders® 2.0 .....	74
HB-welding & Vis .....	76
MARLAN .....	78
HB-FluidMetal Pro 340 / 430 .....	80
VINEX® .....	82
NOMEX® Comfort light .....	84
Accessories HEAT .....	85
TEMPEX®-TREME HEAT Material overview .....	86
TEMPEX®-TREME HEAT KF-3/Z .....	88
TEMPEX®-TREME HEAT COMFORT AW-1/Y und CK-12/Z .....	91
TEMPEX®-TREME HEAT COMFORT Plus AW-1/Y und CK-12/Z .....	94
TEMPEX®-TREME HEAT Face and head protection .....	95
TEMPEX®-TREME HEAT Hand protection .....	100
TEMPEX®-TREME HEAT Foot protection .....	104

## CHEMICALS

<b>CHEMICAL PROTECTION .....</b>	<b>106</b>
HB-CHEMstandard .....	108
HB-CHEMcomfort Antistatic .....	110
HB-CHEM Functional underwear .....	113



HIVIS &  
WEATHER

<b>HIGH VISIBILITY AND WEATHER PROTECTION</b>	114
HI-VISION® Basic Polo shirt, T-shirt	116
HI-VISION® Basic Fleece jacket	117
HI-VISION® Basic Parka incl. thermal jacket	118
HB-StormBase®	119

COLD  
PROTECTION

<b>COLD PROTECTION</b>	120
TEMPEX® CLASSIC 2.0 COLD STORE	122
TEMPEX® CLASSIC CHILLROOM	124
TEMPEX® CLASSIC COLD STORE	126
TEMPEX® CLASSIC COLD STORE und COLD STORE PLUS	128
TEMPEX® COMFORT CHILLROOM	130
TEMPEX® COMFORT COLD STORE	132
TEMPEX® COMFORT COLD STORE PLUS	134
TEMPEX® CONTOUR CHILLROOM	135
TEMPEX® HYGIENE CHILLROOM und COLD STORE	136
TEMPEX® THERMO Fleece	138
TEMPEX® THERMO	140
TEMPEX® THERMO HYGIENE	142
TEMPEX® THERMO Accessories Functional underwear	144
TEMPEX® THERMO Accessories Face- and head protection	145
TEMPEX® THERMO Accessories Hand protection	148
TEMPEX® THERMO Accessories Foot protection	154

FIRE &  
RESCUE  
SERVICES

<b>TECHNICAL ASSISTANCE, RESCUE, AREA FIRE FIGHTING AND DAY SHIFT WEAR</b>	156
Flammgard® KLASSIK	158
Flammgard® NORDRHEIN-WESTFALEN	162
Flammgard® BADEN-WÜRTTEMBERG	164
Flammgard® SAARLAND	167
HB-TECHNICAL RESCUE	170
HB-TECHNICAL RESCUE LITE	172
HB-WILDFIRE 2.0	174

ESD  
ELECTRO-  
STATIC  
DISCHARGE

<b>ESD PRODUCT PROTECTION</b>	178
CONDUCTEX® Coat, Ladies coat	180
CONDUCTEX® Blouson, trousers	182
CONDUCTEX® Cotton Knit T-shirt, polo shirt	184
CONDUCTEX® Cotton Knit Ladies polo shirt, polo shirt	186
CONDUCTEX® Cotton Knit Sweatshirt, sweat jacket	188
CONDUCTEX® Pro Knit Polo shirt	189
CONDUCTEX® Pro Knit Sweat jacket	190
Naptex® 4.0 Blouson, trousers	191
Naptex® 4.0 Coat, Ladies coat	192
HABETEX® ESD Comfort	194
Accessories ESD	197

CLEANROOM  
& DUST

<b>CLEANROOM AND DUST PROTECTION</b>	198
HABETEX® climatic Pro	200
HABETEX® Micronplus	201
HABETEX® Micronselect	202
Accessories CLEANROOM	204

## WORTH KNOWING

Overview product lines	206
Emblems and patches: Your logo on your PPE	210
21 TO WEAR®	212
TEMPEX®-TREME HEAT Modular system	214
READY TO WEAR	216
Insulation values Cold protection	217
Standards	218
Sizes and care	220
Legend	222
Customer service	223

HB PROTECTIVE WEAR  
SUSTAINABLE PROTECTION IS OUR BRAND CORE





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

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





# HB PROTECTIVE WEAR

## QUALITY IS THE MEASURE OF ALL THINGS FOR US



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



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

### **WE HAVE PPE IN OUR DNA**

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

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

### **THE RIGHT PRODUCT FOR EVERY NEED**

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

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

### **FIRMLY ROOTED IN THE REGION**

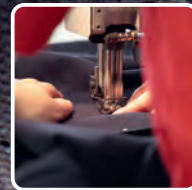
For us, quality is inconceivable without a high degree of consistency, trust and a down-to-earth attitude. It is not for nothing that we have been based in the German Westerwald for more than 70 years – with firm principles.

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



HB PROTECTIVE WEAR

OUR DEMANDS EXCEED THE  
STANDARDS' REQUIREMENTS



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



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

### **OUR RAW MATERIALS ARE THOROUGHLY TESTED**

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

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

### **ALL GARMENTS UNDER CONTROL**

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

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

### **HIGHEST QUALITY DOWN TO THE LAST DETAIL**

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

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



# HB PROTECTIVE WEAR

## WE TAKE TOP PERFORMANCE INTO SERIES PRODUCTION



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



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

### **UP-TO-DATE SERIES PRODUCTION**

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

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

### **DELIVERED TO COMPLETE SATISFACTION**

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

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



HB PROTECTIVE WEAR

WE OFFER BOTH: SERVICE AND PRODUCT QUALITY

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



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

### **SERVICE FIRST – EVEN AFTER PURCHASE**

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

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



HB PROTECTIVE WEAR  
WE ASSUME SUSTAINABLE RESPONSIBILITY

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



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

### **MAKING OUR EMPLOYEES FEEL APPRECIATED**

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

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

### **COMMITMENT TO COMMUNITY AND SOCIETY**

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

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



HB PROTECTIVE WEAR

WE PROTECT NOT ONLY PEOPLE  
BUT ALSO THE ENVIRONMENT



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



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

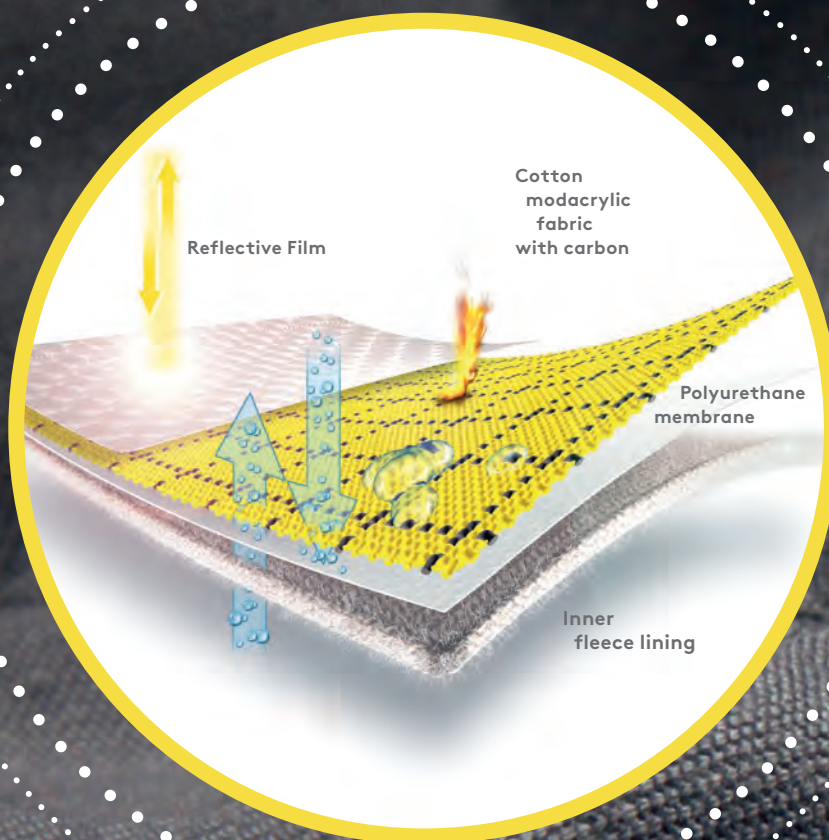
## **SUSTAINABLE ENVIRONMENTAL MANAGEMENT**

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

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



IMMUNE TO MANY DANGERS:  
MULTI-RISK PROTECTION FROM HB



**Hightech protection  
to every detail**

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



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

### ONE RISK RARELY COMES ALONE

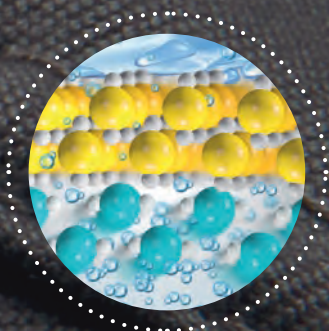
The decisive factor in choosing the right protective clothing is therefore not so much that it meets as many standards as possible as that it corresponds to the specific work situation. Whether you need a “generalist” or a “specialist” always depends on the individual case, which we clarify together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

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



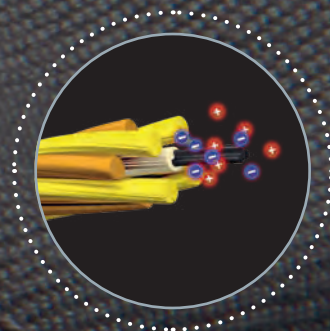
#### Pictograms

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



#### Details of polyurethane membrane

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



#### Yarn details with carbon fibre

Cotton and modacrylic fibres plus Polyamide fibre with carbon core.



ARC & ENERGY

BECAUSE NOT EVERYONE WEARS  
THE RIGHT DRESS BY NATURE





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

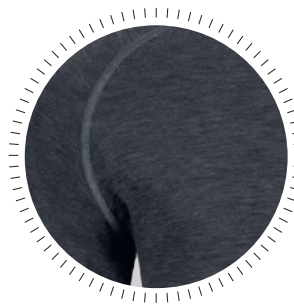




# HB-BodySafe

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

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



Body-Mapping: Knitted transpiration zones



## SHIRT UNDERWEAR 4kA

Arc flash class 1

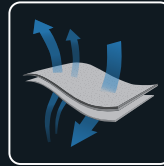
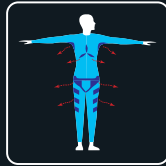
Part Number: **01261 76021 000 461**

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

High breathability due to the fast drying material

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





2 |



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

1 and 2 |

Seamless quality



#### TROUSERS UNDERWEAR 4kA

Arc flash class 1

Part Number: **01261 76022 000 461**

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

**MATERIAL:** 68 % VISCOSE FR, 16 % META-ARAMIDE, 13 % MODACRYLIC, 2 % ELASTANE, 1 % CARBON

**FABRIC WEIGHT:** approx. 200 g/m<sup>2</sup>

**FIELDS OF APPLICATION:** To complete your personal PPE against arc flash, heat and flames for best possible protection









# HB-SecureAllround®

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

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

Simply choose your desired combination from 6 different colours.

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



Closure band with  
covered buttons

Wristbands  
adjustable with  
buttons

## JACKET 4ka

Arc flash class 1

Part number: **01128 10134 020 3026**

Garment weight: approx. 1,240 g

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



Added waistband

## TROUSERS 4ka

Arc flash class 1

Part number: **01128 20081 050 3026**

Garment weight: approx. 1,060 g

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





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



### 1 collection – more than 1,000 possibilities

The product images show one of many versions. Find detailed information in this catalogue (page 216) and at [www.hb-ready-to-wear.com](http://www.hb-ready-to-wear.com)

### These colours are available:



Elasticated section for kidney protection



### COVERALL 4ka

Arc flash class 1

Part number: **01128 30014 050 3026**

Garment weight: approx. 1,590 g

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

### BIB AND BRACE TROUSERS 4ka

Arc flash class 1

Part number: **01128 50061 050 3026**

Garment weight: approx. 1,340 g

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

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

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

**ATPV VALUE:** 17.3 cal/cm<sup>2</sup> • 724.3 kJ/m<sup>2</sup> • **HAF VALUE:** 84.1 % • **FABRIC WEIGHT:** approx. 350 g/m<sup>2</sup>










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





# HB-ArcSelect®

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

ITEM	PLY	COLOUR	COLOUR NO.	COLOUR NAME					REGULAR SIZES
1	-		41	royal	IEC 61482-2 APC 1	EN ISO 11612 A1+A2/B1/C1/ E1/F1	EN ISO 11611 Class 1 A1+A2	EN 1149-5	37/38 – 47/48
			45	navy					
			52	medium grey					
			22	orange					
2	7kA (2-PLY)		45	navy	IEC 61482-2 APC 2	EN ISO 11612 A1/A2/B1/C1/F1			46/48 – 58/60



## SHIRT 4kA

Arc flash class 1

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

Garment weight: approx. 560g

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





2 |



Moving pleat on the back



7kA all-round protection:  
Material is completely doubled

#### MEN'S COAT 7kA

Arc flash class 2

Part number: **01004 40030 001 45**

Garment weight: approx. 1,650 g

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

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

**1 | : ATPV VALUE:** 11.0 cal/cm<sup>2</sup> · 460.2 kJ/m<sup>2</sup> · **HAF VALUE:** 76.0 % · **FABRIC WEIGHT:** approx. 280 g/m<sup>2</sup>















**2 | : ATPV VALUE:** 40.0 cal/cm<sup>2</sup> · 1.674.4 kJ/m<sup>2</sup> · **HAF VALUE:** 91.0 % · **FABRIC WEIGHT:** approx. 340 g/m<sup>2</sup> + approx. 265 g/m<sup>2</sup>

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



# HB-ArcSelect®

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

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



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

Reflective elements on front,  
back and sleeves, suitable for  
industrial laundry

Side pockets with covered  
zip fastener

## BLOUSON 4kA

Arc flash class 1

Part number 4kA: **01004 10000 001 + COLOUR NO.**

Garment weight: approx. 950 g

## BLOUSON 7kA/4kA

Arc flash class 2

Part number 7kA/4kA: **01004 10000 002 + COLOUR NO.**

Garment weight: approx. 1,100 g

Two-coloured • stand-up collar • covered front zip with covered snap fastener • 2 attached breast pockets with flaps and covered snap fasteners • side pockets with flaps and covered snap fastener • 1 inner pocket with snap fastener • sleeve width adjustable via snap fasteners • leasing neck label • embroidered FR standard pictograms on the front • reflective elements suitable for industrial laundry on front, back and sleeves • no Hi-Vis protective clothing acc. to EN ISO 20471 and EN 17353.



Standard pictograms as flame-  
retardant direct embroidery



**21<sup>TO</sup>**  
**WEAR****ARC &  
ENERGY**

Further colour combinations are available through our high-speed delivery service. See page 213.

**21<sup>TO</sup>**  
**WEAR****2 |**

**2 and 3 |** Reflective elements suitable for industrial laundry

**3 |**

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

#### TROUSERS 4kA

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

#### TROUSERS 7kA/4kA

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

Two-coloured • waistband with button and zip-fly • 2 slant pockets • 1 hip pocket with flap and covered snap fastener • 1 ruler pocket on the right with flap and snap fastener • 1 bellow pocket on the right with flap and snap fastener • knee pockets with hook&loop fastener • reflective elements suited for industrial laundry on side pocket, knee pocket and back of knees • no Hi-Vis protective clothing acc. to EN ISO 20471 and EN 17353.

#### BIB AND BRACE TROUSERS 4kA

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

#### BIB AND BRACE TROUSERS 7kA/4kA

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

Two-coloured • stretch braces with fixlock buckle • front with zip-fly • bib with outer pocket with flap and covered snap fastener • 2 slant pockets • 1 hip pocket with flap and covered snap fastener • 1 ruler pocket on the right with flap and snap fastener • 1 bellow pocket on the right with flap and snap fastener • knee pockets with hook&loop fastener • reflective elements suited for industrial laundry on bib, side pockets, knee pockets and back of knees • no Hi-Vis protective clothing acc. to EN ISO 20471 and EN 17353.

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

**4kA: ATPV VALUE:** 16.0 cal/cm<sup>2</sup> • 669.8 kJ/m<sup>2</sup> • **HAF VALUE:** 83.0 % • **FABRIC WEIGHT:** approx. 340 g/m<sup>2</sup>


**7kA/4kA: FABRIC WEIGHT:** approx. 340 g/m<sup>2</sup> + approx. 280 g/m<sup>2</sup>

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



# HB-4arc®

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

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



1

Easy fit:  
Shaped elbow with dart

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

## BLOUSON 7kA/4kA

Arc flash class 2  
Part number: **01237 10125 002 2205**  
Garment weight: approx. 1,175 g

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



High-band  
collar with  
covered snap  
fastener

Front parts  
and sleeves  
2-ply

Covered zip

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





**2 and 3** |  
Ruler pocket with  
additional pen pocket



**2** |

Flame-retardant  
stretch braces with  
useful fixlock buckle

Side entries with  
elastic knitted wedge

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

**2 and 3** |  
Front trousers  
2-ply



**3** |

### TROUSERS 7ka/4ka

Arc flash class 2

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

Garment weight: approx. 970 g

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

### BIB AND BRACE TROUSERS 7ka/4ka

Arc flash class 2

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

Garment weight: approx. 1,130 g

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

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









**FABRIC WEIGHT:** approx. 390 g/m<sup>2</sup> + approx. 250 g/m<sup>2</sup>

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





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

ITEM	PLY	COLOUR	COLOUR NO.	COLOUR NAME						REGULAR SIZES
1   2   3	4kA (1-PLY)		2177	navy/dark grey	IEC 61482-2 APC 1					
1   2   3	7kA/4kA (2-PLY)		2177	navy/dark grey	IEC 61482-2 APC 2* * Front part and sleeves/ front trousers	EN ISO 11612 A1+A2/B1/C1/F1	EN ISO 11611 Class 1 A1+A2	EN 1149-5	EN 13034 Type 6	46-58 & 94-110
1	7kA (2-PLY)		2177	navy/dark grey	IEC 61482-2 APC 2					



## JACKET 4kA

Arc flash class 1

Part number 4kA: **01072 10112 020 2177**

Garment weight: approx. 835 g

## JACKET 7kA/4kA

Arc flash class 2

Part number 7kA/4kA: **01072 10112 018 2177**

Garment weight: approx. 910 g

## JACKET 7kA

Arc flash class 2

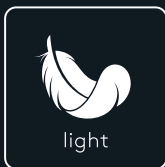
Part number 7kA: **01072 10112 019 2177**

Garment weight: approx. 945 g

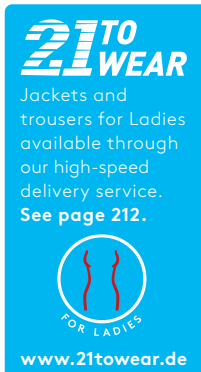
Two-coloured • stand-up collar with covered snap fastener • covered zip • 2 breast pockets with covered zip fastener, left pocket with tap to open • 1 inner breast pocket with additional pen pocket and hook&loop fastener • 2 side pockets with zip fastener • sleeve hem with reflective pipes • no Hi-Vis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



The 7kA version is completely doubled



2 |



Knee pockets with reflective pipes

**TROUSERS 4kA**

Arc flash class 1

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

Garment weight: approx. 730 g

**TROUSERS 7kA/4kA**

Arc flash class 2

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

Garment weight: approx. 845 g

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

3 |

**BIB AND BRACE TROUSERS 4kA**

Arc flash class 1

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

Garment weight: approx. 855 g

**BIB AND BRACE TROUSERS 7kA/4kA**

Arc flash class 2

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

Garment weight: approx. 970 g

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

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



# HB-PROtection®

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

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



## SHIRT

Heat protection

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

Garment weight: approx. 440g

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



Embroidered standard pictograms



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

1 |



**21TO WEAR**

Jackets and  
trousers for Ladies  
available through  
our high-speed  
delivery service.  
**See page 212.**



[www.21towear.de](http://www.21towear.de)

#### What is the Organic Content Standard?



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













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

**FABRIC WEIGHT:** approx. 195 g/m<sup>2</sup>

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



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

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

1 |



## POLO-SHIRT 4ka LONG SLEEVE

Arc flash class 1

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

Garment weight: approx. 300 g

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



1 and 2 |

Standards pictograms as flame retardant embroidery

2 |



## T-SHIRT 4ka LONG SLEEVE

Arc flash class 1

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

Garment weight: approx. 295 g

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



Reinforced with HI-VISION®-sparks material

3 |



#### FLEECE JACKET 4kA

Arc flash class 1

Part number: **07015 19082 005 2193**

Garment weight: approx. 975 g

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



Elongated back

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

**ATPV VALUE:** 6.4 cal/cm<sup>2</sup> · **HAF VALUE:** 70.1 % · **FABRIC WEIGHT:** approx. 215 g/m<sup>2</sup> ·

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

**FABRIC WEIGHT:** approx. 360 g/m<sup>2</sup> ·












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

**HABETEX®**



# HB-MODarc®

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

ITEM	PLY	COLOUR	COLOUR NO.	COLOUR NAME						REGULAR SIZES
1	<b>4kA (1-PLY)</b>		<b>2251</b>	grey/black	IEC 61482-2 APC 1	EN ISO 11612 A1+A2/B1/ C1/F1	EN ISO 11611 Class 1 A1+A2	EN 1149-5	EN 13034 Type 6	46-58 & 94-110
2 ,3			<b>2251</b>	grey/black						
			<b>2188</b>	black/grey						
1	<b>7kA/4kA (2-PLY)</b>		<b>2251</b>	grey/black	IEC 61482-2 APC 2* *Front part and sleeves/ front trousers	EN ISO 11612 A1+A2/B1/ C1/F1	EN ISO 11611 Class 1 A1+A2	EN 1149-5	EN 13034 Type 6	46-58 & 94-110
2 ,3			<b>2251</b>	grey/black						
			<b>2188</b>	black/grey						



1|

Formed elbows for more movement freedom

Band collar with covered snap fastener

Completely manufactured in roof-tile design

Pockets with handy tab to open

## BLOUSON 4kA

Arc flash class 1

Part number 4kA: **01072 10107 034 2251**

Garment weight: approx. 835 g

## BLOUSON 7kA/4kA

Arc flash class 2

Part number 7kA/4kA: **01072 10107 035 2251**

Garment weight: approx. 910 g

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



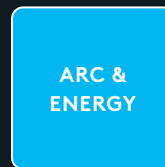
Front part and sleeve available as 1-ply or 2-ply version. **Electric Arc Flash protection 4 kA or 7kA/4kA**

**21 TO WEAR**

Further models also for Ladies' available through our high-speed delivery service. See page 212.



[www.21towear.de](http://www.21towear.de)



### TROUSERS 4kA

Arc flash class 1

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

Garment weight: approx. 730 g

### TROUSERS 7kA/4kA

Arc flash class 2

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

Garment weight: approx. 845 g

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

**2 and 3 |**  
Bellows pocket with additional attached pocket

**2 and 3 |**  
Knee pockets with hook&loop fastener

2 |



3 |



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

### BIB AND BRACE TROUSERS 4kA

Arc flash class 1

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

Garment weight: approx. 855 g

### BIB AND BRACE TROUSERS 7kA/4kA

Arc flash class 2

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

Garment weight: approx. 970 g

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

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

**4kA: ATPV-VALUE:** 10.4 cal/cm<sup>2</sup> • 468.9 kJ/m<sup>2</sup> • **HAF VALUE:** 80.2 % • **FABRIC WEIGHT:** approx. 275 g/m<sup>2</sup>

**7kA/4kA: EBT50-VALUE:** 20.0 cal/cm<sup>2</sup> • 837.3 kJ/m<sup>2</sup> • **HAF VALUE:** 88.9 %
















**FABRIC WEIGHT:** approx. 275 g/m<sup>2</sup> + approx. 175 g/m<sup>2</sup>

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

**HABETEX**



Due to strong demand, we also offer our popular HB-MODarc® collection with reflective stripes. Again, the 2-layer models of this high-performance and modern arc-fault protective clothing are double-worked at the front, sleeves and front trousers and thus protect against electric arcs up to 7kA.

ITEM	PLY	COLOUR	COLOUR NO.	COLOUR NAME						REGULAR SIZES
1	4kA (1-PLY)		2251	grey/black	IEC 61482-2 APC 1	EN ISO 11612 A1+A2/B1/ C1/F1	EN ISO 11611 Class 1 A1+A2	EN 1149-5	EN 13034 Type 6	46-58 & 94-110
			2041	navy/royal						
2  , 3			2251	grey/black						
			2188	black/grey						
			45	navy						
1	7kA/4kA (2-PLY)		2251	grey/black	IEC 61482-2 APC 2* *Front part and sleeves/ front trousers	EN ISO 11612 A1+A2/B1/ C1/F1	EN ISO 11611 Class 1 A1+A2	EN 1149-5	EN 13034 Type 6	46-58 & 94-110
			2041	navy/royal						
2  , 3			2251	grey/black						
			2188	black/grey						
2			45	navy						



## BLOUSON 4kA REFLECTIVE STRIPES

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

## BLOUSON 7kA/4kA REFLECTIVE STRIPES

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

Two-coloured • raw white contrast stitching • stand-up collar with covered snap fastener • covered zip • 2 front pockets (1 as an attached pocket) with flap, covered snap fastener and tab to open • 1 inner pocket left with snap fastener • 2 side pockets with zip • sleeve hem adjustable with snap fastener covered on inside • attached waistband with covered snap fastener • leasing label • standard pictograms on front as FR direct stitching • flame-retardant reflective stripes suitable for industrial laundry • no Hi-Vis protective clothing acc. to EN ISO 20471 and EN 17353.

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



# 21TO WEAR

Further colour combinations plus Ladies' versions are available through our high-speed delivery service.  
**See page 212.**  
[www.21towear.de](http://www.21towear.de)



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

**2 and 3** | Bellows pocket with additional attached pocket

**2 and 3** | Reflective stripes, suited for industrial laundry



#### TROUSERS 4kA REFLECTIVE STRIPES

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

#### TROUSERS 7kA/4kA REFLECTIVE STRIPES

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

Garment weight: approx. 880 g

Two-coloured • raw white contrast stitching • waistband with covered button closure • zip fly • 2 slant pockets • 1 hip pocket on the right and 1 bellows pocket on the left with additional attached pocket – each with flap, covered snap fastener and tab to open • 1 ruler pocket on the right (+pen pocket) • knee pockets with hook&loop fastener • flame-retardant reflective stripes suitable for industrial laundry • no Hi-Vis protective clothing acc. to EN ISO 20471 and EN 17353.

#### BIB AND BRACE TROUSERS 4kA REFLECTIVE STRIPES

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

#### BIB AND BRACE TROUSERS 7kA/4kA REFLECTIVE STRIPES

Arc flash class 2  
Part number 7kA/4kA: **01072 50055 008 + COLOUR NO.**  
Garment weight: approx. 1,005 g

Two-coloured • raw white contrast stitching • stretch braces with fixlock buckle • bib with outer pocket with flap and covered snap fastener • straight kidney protection • 2 side accesses with stretch gusset • zip fly • 2 slant pockets • hip pocket on the right and bellows pocket on the left with additional attached pocket – each with flap and covered snap fastener • ruler pocket on the right (+pen pocket) • knee pockets • flame-retardant reflective stripes suitable for industrial laundry • no Hi-Vis protective clothing acc. to EN ISO 20471 and EN 17353.

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

**4kA: ATPV-VALUE:** 10.4 cal/cm<sup>2</sup> • 468.9 kJ/m<sup>2</sup> • **HAF VALUE:** 80.2 % • **FABRIC WEIGHT:** approx. 275 g/m<sup>2</sup>

**7kA/4kA: EBT50-VALUE:** 20.0 cal/cm<sup>2</sup> • 837.3 kJ/m<sup>2</sup> • **HAF VALUE:** 88.9 %









**FABRIC WEIGHT:** approx. 275 g/m<sup>2</sup> + approx. 175 g/m<sup>2</sup>

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

**HABETEX®**



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

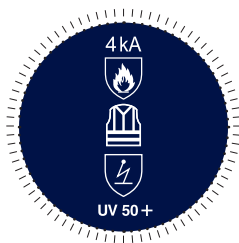
ITEM	COLOUR	COLOUR NO.	COLOUR NAME						REGULAR SIZES
1		2397	fluorescent orange/navy	EN ISO 20471 Class 2	IEC 61482-2 APC 1	EN ISO 11612 A1/B1/C1/F1 EN ISO 11612 A1+A2/B1/C1/F1	EN 1149-5	EN 13758-2	Unisex S-2XL
2		2112	fluorescent yellow/navy		-	EN ISO 11612 A1+A2/B1/C1/F1 Partial body protection		-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

1 |

Flexible segmented and flame-retardant reflective stripes

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

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

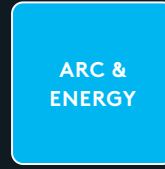
Standards pictograms on the sleeve as FR direct embroidery

2 |

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

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





### VEST HIGH VIS FR

High-Visibility FR

Part number: **01072 10129 001 2112**

Garment weight: approx. 435 g

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

**1 | MATERIAL:** 49% POLYESTER, 30% MODACRYLIC, 20% COTTON, 1% CARBON • **FABRIC WT.:** approx. 245 g/m<sup>2</sup> •

**2 | MATERIAL:** 54% MODACRYLIC, 44% COTTON, 2% CARBON • **ATPV VALUE:** 6.4 cal/cm<sup>2</sup> •

**HAF VALUE:** 70.1% • **FABRIC WEIGHT:** approx. 215 g/m<sup>2</sup> • **3 | MATERIAL:** 55% MODACRYLIC, 43% COTTON, 2% CARBON • **FABRIC WEIGHT:** approx. 275 g/m<sup>2</sup> •

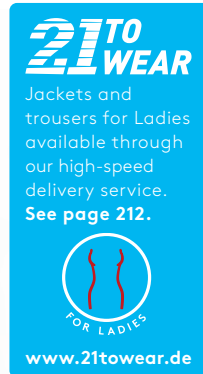
**FIELDS OF APPLICATION:** Plant construction, pipeline and line construction, electricians, public services, steel works, switch gear construction, communication, gas and water networks

**HABETEX®**  
**HI-VISION®**



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

ITEM	PLY	COLOUR	COLOUR NO.	COLOUR NAME							REGULAR SIZES
1	4kA (1-PLY)		2112	fluorescent yellow/navy	EN ISO 20471 Class 2	IEC 61482-2 APC 1					46-58 & 94-110
2  , 3					EN ISO 20471 Class 1		EN ISO 11612 A1+A2/B1/ C1/F1	EN ISO 11611 Class 1 A1+A2	EN 1149-5	EN 13034 Type 6	
1	7kA/4kA (2-PLY)				EN ISO 20471 Class 2	IEC 61482-2 APC 2*					
2  , 3					EN ISO 20471 Class 1	* Front part and sleeves/ front trousers					



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



Pockets with handy tab to open

Reflective stripes, suitable for industrial laundry

## BLOUSON 4kA

Arc flash class 1

Part number 4kA: **01072 10107 028 2112**

Garment weight: approx. 940 g

## BLOUSON 7kA/4kA

Arc flash class 2

Part number 7kA/4kA: **01072 10107 033 2112**

Garment weight: approx. 1,055 g

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

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

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



### TROUSERS 4kA

Arc flash class 1

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

Garment weight: approx. 815 g

### TROUSERS 7kA/4kA

Arc flash class 2

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

Garment weight: approx. 915 g

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

2 |



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

### BIB AND BRACE TROUSERS 4kA

Arc flash class 1

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

Garment weight: approx. 910 g

### BIB AND BRACE TROUSERS 7kA/4kA

Arc flash class 2

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

Garment weight: approx. 1,040 g

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

3 |



2 and 3 | Cargo pocket + attached pocket

2 and 3 | Flame-retardant reflective stripes

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

**4kA: ATPV VALUE:** 10.4 cal/cm<sup>2</sup> · 435.4 kJ/m<sup>2</sup> · **HAF VALUE:** 80.2 % · **FABRIC WEIGHT:** approx. 275 g/m<sup>2</sup> ·

**7kA/4kA: EBT50 VALUE:** 20.0 cal/cm<sup>2</sup> · 837.3 kJ/m<sup>2</sup> · **HAF VALUE:** 88.9 % ·

**FABRIC WEIGHT:** approx. 275 g/m<sup>2</sup> + approx. 175 g/m<sup>2</sup> ·










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

**HABETEX®**  
**HI-VISION®**



# HB-MODarc&vis®

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

ITEM	COLOUR	COLOUR NO.	COLOUR NAME							REGULAR SIZES
1		2228	fluorescent orange-red/black blue	EN ISO 20471 Class 2	-	IEC 61482-2 APC 2	EN ISO 11612 A1/B1/C2/F2	EN ISO 11611 Class 2 A1	EN 1149-5	Unisex S-2XL
		2143	fluorescent yellow/black blue							
2		2007	fluorescent yellow/navy		EN 14058 Class 1	IEC 61482-2 APC 1	EN ISO 11612 A1/B1/C2/F1	-		



Reflective stripes, suitable for industrial laundry



Soft inner fleece FR

## SOFTSHELL JACKET 7ka

Arc flash class 2

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

Garment weight: approx. 1,375g

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



Water repellent



Inner wind-blocker with knitted wristband



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

Reflective stripes, suitable for industrial laundry



2 |

#### FLEECE JACKET 4kA

Arc flash class 1

Part number: **07015 19080 001 2007**

Garment weight: approx. 1,090 g

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



Extended back with drawstring

**1 | MATERIAL:** OUTSIDE: 31 % POLYESTER, 28 % MODACRYLIC, 20 % ARAMIDE, 20 % VISCOSE FR, 1 % CARBON;

INSIDE: 60 % MODACRYLIC, 38 % COTTON, 2 % CARBON, PU-coated •

**ATPV VALUE:** 44.8 cal/cm<sup>2</sup> • 1,874.4 kJ/m<sup>2</sup> • **HAF VALUE:** 92.3 % • **FABRIC WEIGHT:** approx. 540 g/m<sup>2</sup> •

**2 | MATERIAL:** 48 % MODACRYLIC, 32 % COTTON, 18 % POLYESTER, 2 % CARBON • **FABRIC WT:** approx. 360 g/m<sup>2</sup> •












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

**HI-VISION®**



# HB-MODarc&vis®

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

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

## FLEECE JACKET FR

Outdoor

Part number: **07015 19095 000 2047**

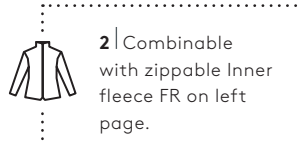
Garment weight: approx. 700 g

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

Optimised fit



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



FR standard pictograms embroidered on the collar



## PARKA 7ka

Arc flash class 2

Part number: **01072 19098 000 2112**

Garment weight: approx. 1,630 g

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

## HOOD

Arc flash class 2

Part number: **01072 79004 000 45**

Garment weight: approx. 140 g

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











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

**HABETEX®**  
**INOTEC®**

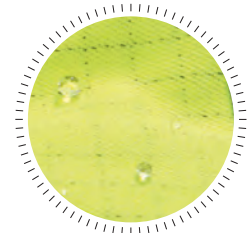


Safety even in problematic weather plus antistatic as well as additional protection against chemicals, heat, flames, welding spatter and electric arcs. This high-visibility and weather protection outfit with direct laminate is lightweight, windproof and 100 % water repellent. It can be perfectly combined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

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



EN Standard pictograms as FR direct embroidery



1 to 3 |  
100 % water-repellent

## PARKA 7kA

Arc flash class 2

Part number: **05019 19071 008 2112**

Garment weight: approx. 1,665 g

Two-coloured • flame-retardant upper material as direct laminate • sealed seams • design with round shapes • contrast stitching in off-white • high band collar with zip fastener for hood attachment • covered 2-way zip fastener plus drip moulding • elongated back • 1 inner Napoleon pocket on the left and 2 side pockets and 1 inner pocket on the left – each with zip fastener • waist adjustment via drawstring • wristbands adjustable via hook&loop fastener • flame-retardant reflective stripes • standard pictograms as direct embroidery on the collar • worn together with our inner fleece Jacket it achieves EN ISO 11612 B2 and C2.



Wristband adjustable via hook&loop fastener



### BIB TROUSERS 4kA

Arc flash class 1

Part number: **05019 29000 006 2112**

Garment weight: approx. 1,060g

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

Comfortable elastic band

Reflective stripes, suitable for industrial laundry

Foot width adjustable with PCV-Zip thanks to additional material



### HOOD

Arc flash class 2

Part number: **05019 79006 001 2112**

Garment weight: approx. 200g

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



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

**ATPV VALUE:** 22.2 cal/cm<sup>2</sup> outer ply • 929.3 kJ/m<sup>2</sup> • **HAF-VALUE:** 87.8 % outer ply

**FABRIC WEIGHT:** approx. 300 g/m<sup>2</sup>

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

**HABETEX®**  
**HI-VISION®**



# HB-MultiPro FR®

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

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



## FLEECE JACKET 4kA

Arc flash class 1  
Part number 4kA (4 kA): **07015 19009 000 48**  
Garment weight: approx. 991g

## FLEECE JACKET 7kA

Arc flash class 2  
Part number 7kA/4kA (7 kA): **07015 19009 002 48**  
Garment weight: approx. 1,200g

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

## PARKA 7kA

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

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



Side accesses with covered snap fastener and covered hook&loop fastener

3 |



2 and 3 |  
Reflective stripes, suited for industrial laundry

### BIB AND BRACE TROUSERS 7ka

Arc flash class 2

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

Garment weight: approx. 1,486 g

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

### HOOD

Arc flash class 2

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

Garment weight: approx. 161 g

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

4 |



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

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

With liner • **FABRIC WEIGHT:** approx. 320 g/m<sup>2</sup> •






**FIELDS OF APPLICATION:** Petrochemistry, catenary construction, energy suppliers

**HABETEX®**



# NOMEX® Viskose

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

ITEM	COLOUR	COLOUR NO.	COLOUR NAME					REGULAR SIZES
1 ,2 ,3		2030	royal/navy	IEC 61482-2 APC 1	EN ISO 11612 A1/B1/C1/F1	EN ISO 11611 Class 1 A1	EN 1149-5	46-58 & 94-110

1|



Many reflective pipings

Inner mobile phone pocket with hook&loop fastener

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



Standards pictograms on the front as FR direct embroidery

## BLOUSON 4ka

Arc flash class 1

Part number: **01031 10036 005 2030**

Garment weight: approx. 770 g

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



#### TROUSERS 4ka

Arc flash class 1

Part number: **01031 20022 013 2030**

Garment weight: approx. 700 g

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

#### BIB AND BRACE TROUSERS 4ka

Arc flash class 1

Part number: **01031 50026 014 2030**

Garment weight: approx. 840 g

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

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

**ATPV VALUE:** 9.9 cal/cm<sup>2</sup> · 414.4 kJ/m<sup>2</sup> · **HAF VALUE:** 79.0 % · **FABRIC WEIGHT:** approx. 260 g/m<sup>2</sup>






**FIELDS OF APPLICATION:** Energy suppliers, public services, plant engineering and construction, electricians

DuPont™  
**NOMEX®**



# NOMEX® Comfort

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

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



1 |



Inner front pocket with flap and snap fasteners

Front pocket with flap and covered snap fastener

## BLOUSON 4kA

Arc flash class 1

Part number: **01042 10011 001 41**

Garment weight: approx. 545g

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



2 |

**JACKET 4kA**

Arc flash class 1

Part number: **01042 10003 001 41**

Garment weight: approx. 580 g

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

3 |

**COAT 4kA**

Arc flash class 1

Part number: **01042 40002 002 41**

Garment weight: approx. 720 g






Single-coloured • lapel collar • closure band with snap fasteners covered on both sides • 1 front pocket on the left and 2 side pockets, each with flap and covered snap fastener • 1 inner front pocket on the right • sleeve hem width adjustable via covered snap fasteners • FR leasing label.

**MATERIAL:** 98 % ARAMIDE, 2 % CARBON**ATPV VALUE:** 9.0 cal/cm<sup>2</sup> • 376.8 kJ/m<sup>2</sup> • **HAF VALUE:** 71.6 % • **FABRIC WEIGHT:** approx. 260 g/m<sup>2</sup>**FIELDS OF APPLICATION:** Plant engineering and construction, energy suppliers, electric installation, public services, electriciansDuPont™  
**NOMEX®**



# NOMEX® Comfort

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

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



## TROUSERS 4ka

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

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

## BIB AND BRACE TROUSERS 4ka

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

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

**COVERALL 4KA**

Arc flash class 1

Part number: **01042 30017 001 41**

Garment weight: approx. 990 g

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

**MATERIAL:** 98 % ARAMIDE, 2 % CARBON**ATPV VALUE:** 9.0 cal/cm<sup>2</sup> • 376.8 kJ/m<sup>2</sup> • **HAF VALUE:** 71.6 % • **FABRIC WEIGHT:** approx. 260 g/m<sup>2</sup>**FIELDS OF APPLICATION:** Plant engineering and construction, energy suppliers, electric installation, public services, electriciansDuPont™  
**NOMEX®**



# INOTEC® Arc & Energy

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

ITEM	PLY	COLOUR	COLOUR NO.	COLOUR NAME					REGULAR SIZES
1   2   3	4kA (1-PLY)		2027	royal/navy	IEC 61482-2 Class 1	EN ISO 11612 A1/B1/C1/F1	EN 1149-5	EN 13034 Type 6	46-58 & 94-110
1   2   3	4kA/7kA (2-PLY)				IEC 61482-2 Class 2* * Front part and sleeves/ front trousers				



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

## JACKET 4kA

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

## JACKET 7kA/4kA

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

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



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



#### Matching bib and brace trousers:

Zip-in membrane as liner trousers for additional moisture protection made of 190 g/m<sup>2</sup> light-weight material double-layer laminate FR  
Part number: **05065 29004 000 519**

2 |



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

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

3 |



#### TROUSERS 4kA

Arc flash class 1

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

Garment weight: approx. 650g

#### TROUSERS 7kA/4kA

Arc flash class 2

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

Garment weight: approx. 765g

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

#### BIB AND BRACE TROUSERS 4kA

Arc flash class 1

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

Garment weight: approx. 800g

#### BIB AND BRACE TROUSERS 7kA/4kA

Arc flash class 2

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

Garment weight: approx. 920g

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

**MATERIAL:** 98 % ARAMIDE, 2 % CARBON

**4kA: ATPV VALUE:** 9.0 cal/cm<sup>2</sup> • 376.8 kJ/m<sup>2</sup> • **HAF VALUE:** 71.6 % • **FABRIC WEIGHT:** approx. 260g/m<sup>2</sup>

**7kA/4kA: FABRIC WEIGHT:** approx. 260g/m<sup>2</sup> + approx. 180g/m<sup>2</sup>

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

**INOTEC®**  
DuPont™  
**NOMEX®**



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





There are situations where you have to be able to rely one hundred percent on your protective equipment. Our products in the Heat, Splashes & Welding category offer the highest level of safety whenever things get hot – in direct contact with sparks and splashes of liquid metal as well as in extreme heat exposure. Not to mention the many other dangers lurking in job and live.





# **PROBAN® 320 / 380 / 470**

Mainly perfect for classical welding work – and now with additional protection against liquid iron. The PROBAN® cotton is particularly strong and made with a unique FR equipment, offering high wearing comfort and breathability. It provides welders with reliable protection against heat, sparks and welding splatters according to EN ISO 11611 up to class 2 A1. The flame resistance persists even after repeated laundry and cleaning cycles.

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

1|



## **JACKET**

Welding protection class 1  
Part number: **01025 10046 000 53**  
Garment weight: approx. 615g  
Fabric weight: approx. 320g/m<sup>2</sup>

## **JACKET**

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

## **JACKET**

Welding protection class 2  
Part number: **01272 10046 000 52**  
Garment weight: approx. 895g  
Fabric weight: approx. 470g/m<sup>2</sup>

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

Closure band with  
snap fasteners  
covered on both sides

Sleeve hem width  
adjustable via  
snap fasteners  
covered inside



HEAT,  
SPLASHES &  
WELDING



### TROUSERS

Welding protection class 1  
Part number: **01025 20084 003 53**  
Garment weight: approx. 620 g  
Fabric weight: approx. 320 g/m<sup>2</sup>

### TROUSERS

Welding protection class 2  
Part number: **01096 20084 003 41**  
Garment weight: approx. 770 g  
Fabric weight: approx. 380 g/m<sup>2</sup>

### TROUSERS

Welding protection class 2  
Part number: **01272 20084 003 52**  
Garment weight: approx. 905 g  
Fabric weight: approx. 470 g/m<sup>2</sup>

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



### BIB AND BRACE TROUSERS

Welding protection class 1  
Part number: **01025 50062 001 53**  
Garment weight: approx. 745 g  
Fabric weight: approx. 320 g/m<sup>2</sup>

### BIB AND BRACE TROUSERS

Welding protection class 2  
Part number: **01096 50062 001 41**  
Garment weight: approx. 960 g  
Fabric weight: approx. 380 g/m<sup>2</sup>

### BIB AND BRACE TROUSERS

Welding protection class 2  
Part number: **01272 50062 001 52**  
Garment weight: approx. 1,105 g  
Fabric weight: approx. 470 g/m<sup>2</sup>

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



**MATERIAL:** 100 % COTTON ·

**FABRIC WEIGHT:** approx. 320 g/m<sup>2</sup> · approx. 380 g/m<sup>2</sup> · approx. 470 g/m<sup>2</sup> ·

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



# SECAN® Plus 330 / 395

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

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



## JACKET

Welding protection class 1  
Part number: **01018 10048 000 41**  
Garment weight: approx. 725 g  
Fabric weight: approx. 330 g/m<sup>2</sup>

## JACKET

Welding protection class 2  
Part number: **01249 10204 000 52**  
Garment weight: approx. 810 g  
Fabric weight: approx. 395 g/m<sup>2</sup>

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

## TROUSERS

Welding protection class 1  
Part number: **01018 20003 025 41**  
Garment weight: approx. 715 g  
Fabric weight: approx. 330 g/m<sup>2</sup>

## TROUSERS

Welding protection class 2  
Part number: **01249 20003 025 52**  
Garment weight: approx. 770 g  
Fabric weight: approx. 395 g/m<sup>2</sup>

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.

HEAT,  
SPASHES &  
WELDING



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



2, 3 and 4 |  
Ruler  
pocket

#### COVERALL

Welding protection class 1  
Part number: **01018 30014 007 41**  
Garment weight: approx. 1,285 g  
Fabric weight: approx. 330 g/m<sup>2</sup>

#### COVERALL

Welding protection class 2  
Part number: **01249 30014 007 52**  
Garment weight: approx. 1,475 g  
Fabric weight: approx. 395 g/m<sup>2</sup>

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

#### BIB AND BRACE TROUSERS

Welding protection class 1  
Part number: **01018 50002 006 41**  
Garment weight: approx. 760 g  
Fabric weight: approx. 330 g/m<sup>2</sup>

#### BIB AND BRACE TROUSERS

Welding protection class 2  
Part number: **01249 50002 050 52**  
Garment weight: approx. 880 g  
Fabric weight: approx. 395 g/m<sup>2</sup>

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

**MATERIAL:** 100 % COTTON

**FABRIC WEIGHT:** approx. 330 g/m<sup>2</sup> • approx. 395 g/m<sup>2</sup>

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





# **SECAN® Securo 420**

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

ITEM	COLOUR	COLOUR NO.	COLOUR NAME				REGULAR SIZES
1 ,2 ,3		52	medium grey	EN ISO 11611 Class 2 A1+A2	EN ISO 11612 A1+A2/B1/C1/ E3/F1	EN 1149-5	46-58 & 94-110



## **JACKET**

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

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

HEAT,  
SPLASHES &  
WELDING



2 |



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

### TROUSERS

Liquid metal Fe

Part number: **01248 20003 026 52**

Garment weight: approx. 810g

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

3 |



### BIB AND BRACE TROUSERS

Liquid metal Fe

Part number: **01248 50002 049 52**

Garment weight: approx. 950g

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

**MATERIAL:** 98 % COTTON, 2 % CARBON

**FABRIC WEIGHT:** approx. 420 g/m<sup>2</sup>







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





# HB-Iron Pro

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

ITEM	COLOUR	COLOUR NO.	COLOUR NAME						REGULAR SIZES
1 ,2 ,3		3011	medium grey/orange/ fluorescent yellow	EN ISO 11612 A1+A2/B1/C1/ E3/F1	EN ISO 11611 Class 2 A1+A2	EN 1149-5	IEC 61482-2 APC 1	EN 17353 Typ B2	46-58 & 94-110



1|



#### Higher visibility:

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

Ergonomically  
shaped sleeves



2 practical set-in side pockets

#### JACKET

Liquid metal Fe

Part number: **01248 10000 011 3011**

Garment weight: approx. 1,070 g

Three-coloured • stand-up collar with plastic snap fastener • fastening strip with snap fasteners, covered on both sides • 2 breast pockets with flap and covered snap fasteners • 2 set-in side pockets with plastic zipper • ergonomically shaped sleeves • sleeve hem width adjustable via plastic snap fasteners • flame-retardant reflective stripes with fluorescent yellow backing, suited for industrial laundry • no warning clothing according to EN ISO 20471 • FR leasing label • standard pictograms as FR direct embroidery on the front • roof tile manufacture.



Trousers + bib and brace trousers are also available with knee pockets, via our highspeed service, see page 213.

**21 TO WEAR**

2 |



Flame-retardant stretch braces

3 |

High-cut kidney protection



Elastic knitted wedge for perfect fit and comfort



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

## TROUSERS

Liquid metal Fe

Part number: **01248 20000 000 3011**

Garment weight: approx. 840 g

Three-coloured • fitted waistband with covered button fastening • fly with zip • 2 side seam pockets • 1 back pocket on the right, 1 folding ruler pocket on the right and one leg pocket on the left • each with flap and covered snap fastener • shaped knees due to darts • flame-retardant reflective stripes on the leg with fluorescent yellow backing, suited for industrial laundry • no high-visibility clothing acc. to EN ISO 20471 • roof tile manufacture.

## BIB AND BRACE TROUSERS

Liquid metal Fe

Part number: **01248 50100 005 3011**

Garment weight: approx. 1,100 g

Three-coloured • flame-retardant stretch braces with fixlock buckle • high-cut kidney protection • 2 side entrances with elastic knitted wedge • slit with zip • 2 side seam pockets • 1 bib pocket with flap and covered snap fastener • 1 hip pocket on the right, 1 ruler pocket on the right and one leg pocket on the left • each with flap and covered snap fastener • shaped knees due to darts • flame-retardant reflective stripes on the leg with fluorescent yellow backing, suited for industrial laundry • no high-visibility clothing acc. to EN ISO 20471 • roof tile manufacture.

**MATERIAL:** 98 % COTTON, 2 % CARBON

**FABRIC WEIGHT:** approx. 420 g/m<sup>2</sup>







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





# HB-4welders® 2.0

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

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



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



Highly stressed areas are manufactured with double layers

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

## **BLOUSON**

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

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



**2 and 3 |**  
Ruler pocket with  
additional pen pocket



**2 |**

Flame-retardant  
stretch braces  
with useful  
fixlock buckle

Side entry  
with elastic  
knit wedge

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



**3 |**

## TROUSERS

Welding protection class 2

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

Garment weight: approx. 970 g

Single-coloured • seamed with contrast colour off-white • added waistband with covered buttoning • fly with zip • 2 slant pockets • 1 hip pocket and 1 ruler pocket on the right (+ pen pocket) • 1 bellow pocket on the left (+ mobile phone pocket inside) – each with flap and covered snap fastener • knee pockets with adjustable hook&loop fastener.

**21 TO WEAR**

Ladies' trousers  
available through  
our high-speed  
delivery service.  
**See page 212.**



[www.21towear.de](http://www.21towear.de)

## BIB AND BRACE TROUSERS

Welding protection class 2

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

Garment weight: approx. 1,130 g

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

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

**FABRIC WEIGHT:** approx. 390 g/m<sup>2</sup>

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








**HB-4welders®**





# HB-welding & Vis

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

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



Waistband  
with elastic band

Standards pictograms  
as FR direct embroidery



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

Collar may be worn high closed or open

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



## JACKET

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

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



Further colour combinations are available through our high-speed delivery service. See page 213.

**21TO WEAR**



## TROUSERS

Welding protection class 2

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

Garment weight: approx. 1,031g

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

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

**2 and 3 |**  
Knee reinforcement



## BIB AND BRACE TROUSERS

Welding protection class 2

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

Garment weight: approx. 1,360g

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

**MATERIAL:** 31 % POLYESTER, 28 % MODACRYLIC, 20 % ARAMIDE, 20 % VISCOSE, 1 % CARBON

**FABRIC WEIGHT:** approx. 320 g/m<sup>2</sup>

**FIELDS OF APPLICATION:** Welding companies, energy suppliers, track construction, chemical industry, public services, heat exposed workplaces, road construction

**HABETEX®**



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

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



## JACKET

Liquid metal Al + Fe

Part number: **01180 10214 000 45**

Garment weight: approx. 838g

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



## TROUSERS

Liquid metal Al + Fe

Part number: **01180 20148 000 45**

Garment weight: approx. 791g

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

HEAT,  
SPLASHES &  
WELDING



3 |



Size-adjustable  
hip width

4 |



### BIB AND BRACE TROUSERS

Liquid metal Al + Fe

Part number: **01180 50101 000 45**

Garment weight: approx. 963g

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

### SHIRT

Liquid metal Al + Fe

Part number: **01180 60028 000 45**

Garment weight: approx. 647g

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

**MATERIAL:** 50 % VISCOSE FR · 30 % WOOL · 20 % POLYAMIDE

**FABRIC WEIGHT:** approx. 365g/m<sup>2</sup>

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

**HABETEX**



# HB-FluidMetal Pro 340 / 430

HB-FluidMetal Pro, available in two weight classes, is the answer to the special requirements of the protective function of PPE for working with high temperatures or molten metal. The material has good moisture management and is comfortable to wear thanks to the balanced material mix. The fabric also offers anti-static properties and protects the wearer from electric arcs. Now also certified acc. to EN 17353 Hi-Vis protection.

ITEM	COLOUR	COLOUR NO.	COLOUR NAME	FABRIC WEIGHT						REGULAR SIZES
1 ,2 ,3		2043	navy/ medium grey	approx. 340 g/m²	EN ISO 11611 Class 1 A1+A2	EN ISO 11612 A1+A2/B1/C1/D2/E2/F1	EN 1149-5	IEC 61482-2 Class 1	EN 17353 Typ B2	46-58 & 94-110
1 ,2 ,3		2070	medium grey/ pure orange	approx. 430 g/m²	EN ISO 11611 Class 2 A1+A2	EN ISO 11612 A1+A2/B1/C1/D3/E3/F1				



**Higher visibility:**  
FR reflective stripes, suitable for industrial laundry and certified acc. to EN 17353

## JACKET

Liquid metal Al + Fe  
Part number: **01221 10020 002 + COLOUR NO.** (340g/m²)  
Garment weight: approx. 840g

## JACKET

Liquid metal Al + Fe  
Part number: **01218 10020 002 + COLOUR NO.** (430g/m²)  
Garment weight: approx. 1,060g

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



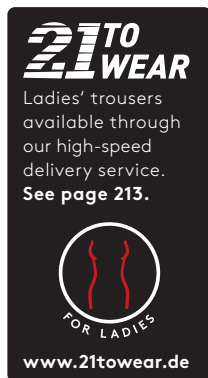
Standard pictograms as FR direct embroideries on the front



1 to 3 |

Ergonomic cut for more freedom of movement

2 |



2 and 3 |  
Knee pocket with hook & loop fastener

3 |



## TROUSERS

Liquid metal Al + Fe

Part number: **01221 20019 002 + COLOUR NO.** (340 g/m<sup>2</sup>)

Garment weight: approx. 760 g

## TROUSERS

Liquid metal Al + Fe

Part number: **01218 20019 002 + COLOUR NO.** (430 g/m<sup>2</sup>)

Garment weight: approx. 980 g

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

## BIB AND BRACE TROUSERS

Liquid metal Al + Fe

Part number: **01221 50013 002 + COLOUR NO.** (340 g/m<sup>2</sup>)

Garment weight: approx. 1,030 g

## BIB AND BRACE TROUSERS

Liquid metal Al + Fe

Part number: **01218 50013 002 + COLOUR NO.** (430 g/m<sup>2</sup>)

Garment weight: approx. 1,300 g

Two-coloured • flame-retardant Fixlock stretch braces • breast bib pocket • two-sided access with gusset • 2 side seam pockets • slit detail with spiral zip fastener • 2 back pockets • pocket for folding rule right and 1 bellows pocket left each with flap and covered snap fasteners • knee pad pocket with adjustable hook & loop fastener • flame-retardant reflective stripes, suitable for industrial laundry • no Hi-Vis protective clothing acc. to EN ISO 20471 • manufactured in roof tile design.

**MATERIAL: 01221** 50 % COTTON, 39 % MODACRYLIC, 10 % VISCOSE, 1 % CARBON

**MATERIAL: 01218** 52 % COTTON, 37 % MODACRYLIC, 10 % VISCOSE, 1 % CARBON

**FABRIC WEIGHT:** approx. 340 g/m<sup>2</sup> (01221) • approx. 430 g/m<sup>2</sup> (01218)

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

**HABETEX**



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

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



High band collar  
with covered hook &  
loop fastener

1|



Large inner  
pocket

Manufactured  
in roof tile design



2|



### BLOUSON

Liquid metal Al + Fe

Part number: **01058 10015 005 48**

Garment weight: approx. 960g

Single-coloured • high band collar with covered hook & loop fastener • closure band with snap fasteners covered on both sides • 1 front pocket on the left and 2 side pockets – each with flap and covered snap fasteners • 1 inner pouch pocket on the right with snap fastener • FR leasing label • sleeve hem width adjustable via inwards covered snap fasteners.

### TROUSERS

Liquid metal Al + Fe

Part number: **01058 20013 003 48**

Garment weight: approx. 1,005g

Single-coloured • added waistband with 7 belt loops and covered buttoning • covered snap fastener fly • 2 side seam pockets • 1 hip pocket and 1 ruler pocket on the right with flap and covered snap fastener • trouser leg manufactured in roof tile design.

HEAT,  
SPLASHES &  
WELDING



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

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

#### BIB AND BRACE TROUSERS

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

Single-coloured • stretch braces with clamp-on clips • 1 inner bib pocket with snap fastener • 2 side seam pockets with covered snap fasteners, 1 hip pocket on the right and 1 ruler pocket on the right – each with flap and covered snap fastener • 1 side access on the left and button fly • trouser leg manufactured in roof tile design.

#### SHIRT, WITH STAND-UP COLLAR

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

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

**MATERIAL:** 85 % VINYLAL, 15 % MODAL

**FABRIC WEIGHT:** 1 | to 3 | approx. 390 g/m<sup>2</sup> • 4 | approx. 285 g/m<sup>2</sup>

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

**VINEX**  
**WESTEX**  
A MILLIKEN BRAND



# NOMEX® Comfort light & ACCESSORIES HEAT

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

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

## CLASSIC SHIRT

Heat Protection

Part number: **01046 60000 008 41**

Garment weight: approx. 365g

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.

1|



Optimised humidity transport thanks to Hydrophil equipment

## UNDERSHIRT

Accessories

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

Single-coloured • round neckline • long-sleeve.

2|



3|



## UNDERTROUSERS

Accessories

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

Single-coloured • long • flyless.

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





**FABRIC WEIGHT:** 1| approx. 185 g/m<sup>2</sup> · 2| and 3| approx. 180 g/m<sup>2</sup> ·

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

DuPont™  
**NOMEX®**

HEAT,  
SPASHES &  
WELDING



ITEM	COLOUR	COLOUR NO.	COLOUR NAME		SIZES
1   2		45	navy		S-2XL
3		58	anthracite	-	approx. 240 x 165 x 18 mm
4		46	black	EN ISO 11612-A1 Material	Length: 90 cm/110 cm/130 cm; Width: 38 mm

### COOLING VEST

Accessories

Part number: **90026 16021 000 45**

Garment weight: approx. 260 g

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



1 and 2 |  
Antibacterial outer fabric

### COOLING BANDANA

Accessories

Part number: **90026 76026 000 45**

Garment weight: approx. 90 g

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



### KNEE PADS

Accessories

Part number: **04033 76013 000 58**

Garment weight: approx. 70 g

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



Sale unit: 1 pair

### BELT FR

Accessories

Part number: **01113 76012 000 46**

Garment weight: approx. 80 g

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



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

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

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



# TEMPEX®-TREME HEAT

For works in high-temperature environments, we offer aluminised heat protection clothing from head to toe in four different materials, including two lightweight and very high-performance qualities. They complete our product range, including COMFORT and COMFORT-Plus versions with numerous feature options. For example, the foundry coat is available in 84 and the heat protection jacket in 42 variants.



**JACKET**  
**CK-12/Z**

**PROTECTIVE**  
**HOOD**  
**KF-3/Z**

**5-FINGER-**  
**GLOVES**  
**AW-1/Y**

**TROUSERS**  
**CK-12/Z**

**GAITERS**  
**CK-4/Z**



## TEMPEX® TREME HEAT MATERIAL OVERVIEW

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

Material name	CK-12/Z	AW-1/Y	KF-3/Z	CK-4/Z
Part number	12014	12008	12003	12015
Material	70 % preox, 30 % para-aramide	100 % aramide (70 % recycled meta-aramide, 30 % para-aramide)	100% para-aramide	70 % preox, 30 % para-aramide
Material weight	approx. 360 g/m <sup>2</sup>	approx. 420 g/m <sup>2</sup>	approx. 475 g/m <sup>2</sup>	approx. 690 g/m <sup>2</sup>
Carrier material	Twill	Knitted fabric with roughened nap	Herringbone twill	Twill
Aluminisation	High-vacuum metallisation	PES film aluminised on both sides	High-vacuum metallisation	High-vacuum metallisation
Standards	EN ISO 11612 A1/B1/C3/D3/E3/F1	EN ISO 11612 A1/B1/C4/D3/E3/F2	EN ISO 11612 A1/B1/C3/D3/E3/F1	EN ISO 11612 A1/B1/C3/D3/E3/F2
Protection properties	<ul style="list-style-type: none"> <li>• High protection against radiant heat</li> <li>• Very good protection from liquid metal splatters</li> <li>• Very lightweight and soft design for high wearing comfort</li> <li>• Good mechanical strength</li> </ul>	<ul style="list-style-type: none"> <li>• Highest protection against radiant heat (C4)</li> <li>• Very high thermal insulation and heat barrier</li> <li>• Very good protection from liquid metal splatters</li> <li>• Lightweight and very soft design for high wearing comfort</li> </ul>	<ul style="list-style-type: none"> <li>• High protection against radiant heat</li> <li>• Very good protection from liquid metal splatters</li> <li>• Very high mechanical strength</li> </ul>	<ul style="list-style-type: none"> <li>• High protection against radiant heat</li> <li>• High protection against contact heat</li> <li>• Very good protection from liquid metal splatters</li> <li>• Very high mechanical strength</li> </ul>
Detailed photo				



### FIELDS OF APPLICATION:

Steelworks, aluminium-processing industry, foundries, heat-exposed workplaces, metal processing industry



# **TEMPEX®-TREME HEAT**

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

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



## JACKET

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

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

## TROUSERS

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

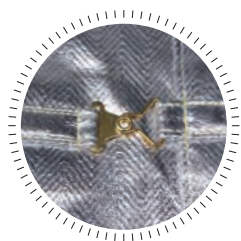
Sewn-in adjustable suspenders • covered zip fly with snap fastener closure • FR seams.

**21 TO WEAR**

All other versions are available via our **21 TO WEAR®** high-speed delivery service. For more information see the **model overview** on **page 214/215**.



**1 and 3** | Inner hook&loop fastener, alternatively quick release fastener



### FOUNDRY COAT

Metalized heatprotection (C3)

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

Garment weight: approx. 1,520 g

Inner collar with flame-retardant cotton lining • front with covered hook&loop fastener FR • FR seams • length: approx. 130 cm. Further available length: 140 cm.



Neckline with FR molleton

### APRON WITH SLEEVES

Metalized heatprotection (C3)

Part number: **12003 71130 000 15 (KF-3/Z)**

Garment weight: approx. 1,125 g



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



# TEMPEX®-TREME HEAT

**21 TO WEAR**

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

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

**21 TO WEAR**

All other **versions** are available via our **21 TO WEAR®** high-speed delivery service. For more information see the **model overview** on **page 214/215**.

5 |



6 |



## BIB APRON

Metalized heatprotection (C3)

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

Garment weight: approx. 642 g

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

## HALF APRON

Metalized heatprotection (C3)

Part number: **12003 71100 000 15 (KF-3/Z)**

Garment weight: approx. 511 g

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



# TEMPEX®-TREME HEAT COMFORT

21<sup>TO</sup> WEAR

HEAT,  
SPASHES &  
WELDING



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

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



## JACKET

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

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



## TROUSERS

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

## TROUSERS

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

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



# TEMPEX®-TREME HEAT COMFORT

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

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



## FOUNDRY COAT

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

## FOUNDRY COAT

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

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

**21 TO WEAR**

All other versions are available via our 21 TO WEAR® high-speed delivery service. For more information see the **model overview** on **page 214/215**.



#### APRON WITH SLEEVES

Metalized heatprotection (C4)

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

Garment weight: approx. 1,005 g

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

Further available length: 140 cm.

#### BIB APRON

Metalized heatprotection (C4)

Part number: **12008 71131 000 15 (AW-1/Y)**

Garment weight: approx. 520 g

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

Further available length: 110 cm.

# TEMPEX®-TREME HEAT COMFORT Plus

**21 TO WEAR**

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

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

1 and 2 | Underarm ventilation for high wearing comfort



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

1 and 2 |  
Lined stand-up collar with flame-retardant cotton lining  
Ventilation option for maximum wearing comfort  
Ergonomic shaped sleeves for more freedom of movement  
Sleeve width adjustable via snap fastener inside



1 and 2 | Inner hook & loop fastener

## FOUNDRY COAT

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

## FOUNDRY COAT

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

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

## JACKET

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

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

**21 TO WEAR**

All other versions are available via our **21 TO WEAR®** high-speed delivery service. For more information see the **model overview** on page 214/215.





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

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

## PROTECTIVE HOOD, CHEST PROTECTION

Accessories

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

Garment weight: approx. 508g

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



## PROTECTIVE HOOD

Accessories

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

Garment weight: approx. 297g

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



## PROTECTIVE HOOD, CHEST PROTECTION

Accessories

Part number: **12008 71001 002 15 (AW-1/Y)**

Garment weight: approx. 415g

Shaped shoulder and chest area • with two covered ventilation openings at the sides • elastic band in back • protective glass frame made from aluminium • storage loop • all seams with FR thread • side height approx. 50 cm from storage loop across shoulder • compatible with Phenol (item 90021 7Z006 011 68) and Poly helmet (item 90022 7Z006 012 10) • compatible with heat protection glass in size 100 x 220 mm.



# TEMPEX®-TREME HEAT

**21<sup>TO</sup>**  
**WEAR**

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

## **HELMET COVER**

Accessories

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

Garment weight: approx. 184g

Shaped neck protection • side snap fasteners for attaching a face shield • FR seams • fits with helmets Phenol (item 90021 7Z006 011 68) and Poly (item 90022 7Z006 012 10) • fits with face guard (item 12008 71010 000 15).

One size

 silver

Standards:



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

**21<sup>TO</sup>**  
**WEAR**

All other versions are available via our **21 TO WEAR®** high-speed delivery service. For more information see the **model overview** on **page 214/215**.

## **FACE GUARD**

Accessories

Part number: **12008 71010 000 15 (KF-4/Z)**

Garment weight: approx. 283g

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

One size

 silver

Standards:



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

## **CUFFS**

Accessories

Part number: **12003 7H003 000 15 (KF-3/Z)**

Cuff made of aluminised Aramide • elastic band on both ends • length approx. 430 mm.

One size

 silver

Standards:



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



Elastic band on both ends

HEAT,  
SPLOSHES &  
WELDING



### PROTECTIVE HELMET PHENOL

Accessories

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

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

One size (51–64 cm)

■ gold

Standards:



EN 397



### PROTECTIVE HELMET POLY

Accessories

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

Straight shell with rain gutter • manufactured from fibreglass-reinforced polycarbonate • 6-point webbed harness with genuine leather sweatband, foam cushion band and lock ratchet • for use in hot zones and electrical insulation (1000 V), temperatures from -30 °C up to +150 °C • fits with all head protection hoods • fits with Flip-Up Mounting (item 90002 7Z019 004 15).

One size (51–64 cm)

□ white

Standards:



EN 397

EN 50365



### FLIP-UP MOUNTING

Accessories

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

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

One size

■ silver



### BOCHUM GOGGLES

Accessories

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

Aluminum edging • blackened wire mesh inside • protective glass holder • fits with Flip-Up Mounting (item 90002 7Z019 004 15) • fits with heat protection glass sized 120 x 60 mm.

■ silver

Standards:



EN 166



### BOCHUM GOGGLES WITHOUT GLASS HOLDER

Accessories

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

Aluminum edging • blackened wire mesh inside • fits with Flip-Up Mounting (item 90002 7Z019 004 15).

■ silver





# TEMPEX®-TREME HEAT

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

## PROTECTIVE WIRE SCREEN

Accessories

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

Crimped edge • blackened wire mesh inside • fits with Flip-Up Mounting (item 90002 7Z019 004 15) • shape: 500 x 300 mm.

 silver



## FURNACE VIEWING GLASS, CURVED

Accessories

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

Curved laminated safety glass • special blue-coloured filter • colour-correcting • protection from radiant heat • protection from radiant heat • protection from short wave IR radiation • protection level 4-7 A-DIN • fits with head protection hoods (item 12003 7H007 000 15 or 12003 7H007 001 15) • fits with Face Guard (item 12008 71010 000 15) • shape: 100 x 220 mm.

 dark blue



## LAMINATED SAFETY GLASS, GOLD

Accessories

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

Curved laminated safety glass • gold-plated • protection from radiant heat • fits with head protection hoods (item 12003 7H007 000 15 or 12003 7H007 001 15) • fits with Face Guard (item 12008 71010 000 15) • shape: 100 x 220 mm.

 gold  
Standards:



EN 166 EN 171



## POLYCARBONATE SCREEN GREEN, GOLD

Accessories

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

Curved laminated safety screen • gold-plated • protection from radiant heat • fits with head protection hoods (item 12003 7H007 000 15 or 12003 7H007 001 15) • fits with Face Guard (item 12008 71010 000 15) • shape: 100 x 220 mm.

 gold  
Standards:



EN 166 EN 171



HEAT,  
SPLASHES &  
WELDING



### ALL-AROUND VISOR CLEAR

Accessories

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

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

 neutral  
Standards:



EN 166

### ALL-AROUND VISOR CLEAR, GOLD

Accessories

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

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

 gold  
Standards:



EN 166

EN 171

### ALL-AROUND VISOR GREEN, GOLD

Accessories

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

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

 green  
Standards:



EN 166


EN 171

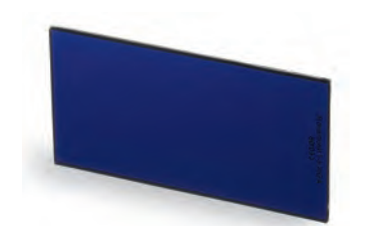
### FURNACE VIEWING GLASS WITH COLOURED FILTER

Accessories

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

Composite safety glass • special blue-coloured filter • colour-correcting • protection from radiant heat • protection from blinding light • protection from short-term IR radiation • protection level 4-7 A-DIN • fits with Bochum Goggles (item 90001 7Z024 000 15) • shape: 120 x 60 mm.

 dark blue

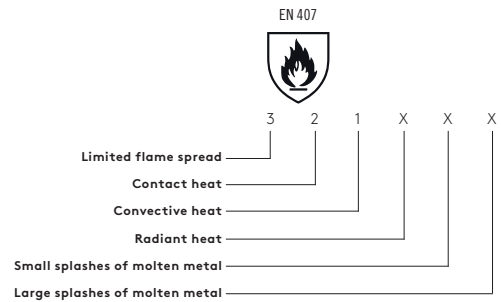


# TEMPEX®-TREME HEAT

Our new heat protection gloves are available in different variants, lengths and sizes and offer protection against thermal risks according to EN ISO 407 as well as mechanical hazards according to EN 388 thanks to selected material combinations and insulation layers.

## Protective gloves against thermal risks EN 407:2020

Protective gloves tested according to this standard protect against heat and/or fire. The actual protective performance depends on the test performed during certification and the level of performance achieved, with 1 being the lowest and 4 the highest. "X" means not tested.



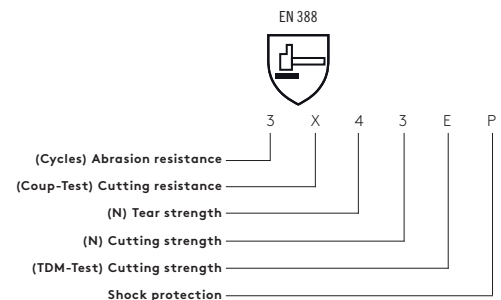
Test	Performance Level			
	1	2	3	4
<b>Combustion behavior</b>				
Afterflame time (in sec.)	< 20	< 10	< 3	< 2
Afterglow time (in sec.)	n.r.	< 120	< 25	< 5
<b>Contact heat</b>				
Contact temperature T <sub>c</sub> (in °C)	100	250	350	500
Threshold t <sub>1</sub> (in sec.)	> 15	> 15	> 15	> 15
<b>Convective Heat</b>				
Heat Transfer Index HTI (in sec.)	> 4	> 7	> 10	> 18
<b>Radiant heat</b>				
Radiant heat transfer t <sub>24</sub> (in sec.)	> 7	> 20	> 50	> 95
<b>Small splashes of molten metal</b>				
Number of splashes	> 10	> 15	> 25	> 35
<b>Large splashes of molten metal</b>				
Liquid iron splashes (in g)	30	60	120	200

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

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

## Protective gloves against mechanical risks EN 388:2016

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



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

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

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





## METALLISED HEAT PROTECTION GLOVES UP TO 500 °C CONTACT HEAT

ITEM			MATERIAL LAYER CONSTRUCTION			LENGTH	SIZES
			UPPER	ISOLATION	LINING		
1	EN ISO 407 4 1 3 3 4 4	EN 388 2X4XX	Polyacrylnitril (Preox), Aramide, chrome split leather	Half wool non-woven	Molleton	approx. 410 mm	11
2			Polyacrylnitril (Preox), Aramide, Para-Aramide	Half wool non-woven Preox-Felt	Molleton	approx. 450 mm	
3			Polyacrylnitril (Preox), Aramide, Para-Aramide	Half wool non-woven Preox-Felt	Molleton	approx. 440 mm	



### 3-FINGER GLOVES 410 + LEATHER

Accessories

Part number: **12015 71005 000 2271**

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



### 3-FINGER GLOVES 450 + ARAMIDE

Accessories

Part number: **12015 71003 001 2269**

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



### MITTENS 440 + ARAMIDE

Accessories



Part number: **12015 71004 002 2269**

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

# TEMPEX®-TREME HEAT

Our new heat protection gloves are available in different variants, lengths and sizes and offer protection against thermal risks according to EN ISO 407 as well as mechanical hazards according to EN 388 thanks to selected material combinations and insulation layers.

## METALLISED HEAT PROTECTION GLOVES UP TO 250 °C CONTACT HEAT

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

1 | and 2 |



### 5-FINGER GLOVES 370 + LEATHER

Accessories

Part number: **12008 71011 002 2268**

### 5-FINGER GLOVES 440 + LEATHER

Accessories

Part number: **12008 71011 001 2268**

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

3 | and 4 |



### 5-FINGER GLOVES 390 + ARAMIDE

Accessories

Part number: **12008 71012 003 2269**

### 5-FINGER GLOVES 470 + ARAMIDE

Accessories

Part number: **12008 71012 002 2269**

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



## HEAT PROTECTION GLOVES UP TO 500 °C CONTACT HEAT

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

1 | and 2 |



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

### 5-FINGER GLOVES 370, ARAMIDE

Accessories

Part number: **01267 71012 001 20**

### 5-FINGER GLOVES 470, ARAMIDE

Accessories

Part number: **01267 71012 000 20**

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

3 |



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

### MITTENS GLOVE 390, ARAMIDE

Accessories

Part number: **01267 71007 000 20**

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

4 |



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

### MITTENS 390 PBI/ARAMIDE

Accessories

Part number: **01191 71013 000 20**

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



# **TEMPEX®-TREME HEAT**

The heat protection equipment is rounded out by matching footwear with various aluminized gaiter models and a foundry boot certified to the EN ISO 20349-1:2017 foundry standard for molten iron and aluminum.

ITEM	COLOUR	COLOUR NO.	COLOUR NAME	MATERIAL		REGULAR SIZES
1, 2					EN ISO 11612 A1/B1/C3/D3/E3/F2 (Partial body protection)	One size
3		15	silver	Aramide/Glass		1 (= up to size 43) 2 (= from size 44)

## **GAITERS, HOOK & LOOP FASTENING**

Accessories

Part number: **12015 71008 000 15**

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

Sale unit: 1 pair



## **GAITERS, SNAP FASTENING**

Accessories

Part number: **12015 71008 001 15**

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

Sale unit: 1 pair



## **SPRING GAITERS**

Accessories

Part number: **12015 71009 000 15**

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

Sale unit: 1 pair



HEAT,  
SPLASHES &  
WELDING



Nitrile rubber soles with  
heat-insulated substructure

4 |

Double snap  
fasteners closure




## FOUNDRY BOOTS

Accessories

Part number: **14003 76025 000 2276**

Aluminised upper leather (the metallic surface reflects heat radiation) • full calf leather • bootleg constructed like roof tiles • holding rivets • Kevlar® stitching thread • quick fastener • steel cap • aluminised inlay sole • nitrile bearing sole type MÜNCHEN ROT, approx. 300 °C contact heat resistant • approx. 28 cm high.

Sizes: 39–48 • Sale unit: 1 pair

 white/grey

Standards:



EN ISO 20349-1



CHEMICALS

THESE MATERIALS STRENGTHEN  
YOUR DEFENCE SYSTEM





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



# HB-CHEMstandard

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

ITEM	COLOUR	COLOUR NO.	COLOUR NAME		REGULAR SIZES
1   2   4   5		56	iron grey	 EN 13034 Type 6	46–58 & 94–110
3					39/40–47/48

## JACKET

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

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



Side pockets with flaps and covered snap fasteners



## COAT

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

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







### SHIRT

Chemical protection type 6  
Part number: **02001 60000 004 56**  
Garment weight: approx. 490 g

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

3 |



4 |



### TROUSERS

Chemical protection type 6  
Part number: **02001 20085 001 56**  
Garment weight: approx. 535 g

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

Ruler pocket

5 |

Stretch braces with clamp-on clips



### BIB AND BRACE TROUSERS

Chemical protection type 6  
Part number: **02001 50063 001 56**  
Garment weight: approx. 665 g

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

**MATERIAL:** 100 % POLYACRYLIC, FC-EQUIPMENT • **FABRIC WEIGHT:** approx. 270 g/m<sup>2</sup> •

**REPELLENCY AND PENETRATION INDEXES:** Repellency index A (%): Sulphuric acid 30 %: 99.8, Sodium hydroxide solution 10 %: 99.5, o-Xylene: 96.2, Butan-1-ol: 96.3, hydrochloric acid 36 %: 99.0, Nitric acid 65 %: 97.7; Penetration index P (%): Sulphuric acid 30 %: 0.0, Sodium hydroxide solution 10 %: 0.0, o-Xylene: 0.6, Butan-1-ol: 0.5, hydrochloric acid 36 %: 0.4, Nitric acid 65 %: 0.0 •

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

**HB-CHEM**



# HB-CHEMcomfort Antistatic

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

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



## JACKET

Chemical protection type 6

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

Garment weight: approx. 510 g

## JACKET

Chemical protection type 6

Part number: **02006 10053 000 2082**

Garment weight: approx. 510 g

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



## SHIRT

Chemical protection type 6

Part number: **02006 60002 005 + COLOUR NO.**

Garment weight: approx. 470 g

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



### TROUSERS

Chemical protection type 6

Part number: **02006 20003 028 + COLOUR NO.**

Garment weight: approx. 500g

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

### BIB AND BRACE TROUSERS

Chemical protection type 6

Part number: **02006 50002 054 + COLOUR NO.**

Garment weight: approx. 595g

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

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

**FABRIC WEIGHT:** approx. 240g/m<sup>2</sup>





**REPELLENCY AND PENETRATION INDEXES:** Repellency index A (%): Sulphuric acid 30 %: 99.8, Sodium hydroxide solution 10 %: 99.6, o-Xylene: 90.9, Butan-1-ol: 94.2; Penetration index P (%): Sulphuric acid 30 %: 0.0, Sodium hydroxide solution 10 %: 0.0, o-Xylene: 5.7, Butan-1-ol: 2.9

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

**HB-CHEM**

# HB-CHEMcomfort Antistatic

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

ITEM	COLOUR	COLOUR NO.	COLOUR NAME			REGULAR SIZES
1		10	white	EN 13034 Type 6	EN 1149-5	36/38-44/46
2		10	white			46-58 & 94-110
		41	royal			
		58	anthracite			

1|



All pockets with flap and covered snap fasteners

2|



## LADIES COAT

Chemical protection type 6

Part number: **02006 40018 000 10**

Garment weight: approx. 580g

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

## MEN'S COAT

Chemical protection type 6

Part number: **02006 40002 004 10**

Garment weight: approx. 640g

## MEN'S COAT

Chemical protection type 6

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

Garment weight: approx. 640g

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

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

**FABRIC WEIGHT:** approx. 240 g/m<sup>2</sup>

**REPELLENCY AND PENETRATION INDEXES:** Repellency index A (%): Sulphuric acid 30 %: 99.8, Sodium hydroxide solution 10 %: 99.6, o-Xylene: 90.9, Butan-1-ol: 94.2; Penetration index P (%): Sulphuric acid 30 %: 0.0, Sodium hydroxide solution 10 %: 0.0, o-Xylene: 5.7, Butan-1-ol: 2.9

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

**HB-CHEM**



# HB-CHEM FUNCTIONAL UNDERWEAR

CHEMICALS



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

ITEM	COLOUR	COLOUR NO.	COLOUR NAME	SIZES
1, 2		11	off-white	6-8

## UNDERSHIRT LONG-SLEEVED

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

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



Hem with stretchy double-stitched seam

## UNDERSHIRT SHORT-SLEEVED

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

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



Hem with stretchy double-stitched seam

## UNDERPANTS LONG

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

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



Leg opening with knitted cuffs

**MATERIAL:** 100 % POLYACRYLIC

**FABRIC WEIGHT:** approx. 170 g/m<sup>2</sup> • **CHARACTERISTICS:** Rib knit, modern and form-fitting design

**FIELDS OF APPLICATION:** Underwear for: chemical industry, steel industry, automotive industry, battery factories, laboratories, electroplating

HB-CHEM

HIVIS & WEATHER

WELCOME TO YOUR  
PERSONAL COMFORT ZONE!









The best thing about our HiVis & Weather collections: comfortable fit and modern design give you a great feeling in your outfit and make you look really good. And not just in good weather, but especially in wet, cold, foggy, drizzly and dark conditions. With bright colours and cleverly placed reflective stripes, our high visibility and weather protection clothing sends out strong signals that can't be missed.





# HI-VISION® Basic

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

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

## **POLO-SHIRT SHORT SLEEVE**

High-Visibility

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

Garment weight: approx. 330 g

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

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



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



## **T-SHIRT**

High-Visibility

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

Garment weight: approx. 310 g

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

**MATERIAL:** 55 % COTTON, 45 % POLYESTER

**FABRIC WEIGHT:** approx. 185 g/m²

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

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

**HI-VISION®**

# HI-VISION® Basic

HIVIS &  
WEATHER



Our high-quality fleece jacket from the HI-VISION® Basic program is perfect for wearing it as an additional warming layer, for example under a parka. Worn solo, it alternatively offers protection on cool days in the transitional period from summer to fall or winter to spring.

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



## FLEECE JACKET

Outdoor

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

Garment weight: approx. 570g

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


**MATERIAL:** 100 % POLYESTER

**FABRIC WEIGHT:** approx. 260g/m<sup>2</sup>

**FIELDS OF APPLICATION:** Technical retailers, suppliers, disposers, works in the factory or public traffic area, car wash, logistic centres • offers protection against slight cold during transitional seasons

# HI-VISION® Basic

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

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



1 |

With removable thermal jacket



## **PARKA INCL. THERMAL JACKET**

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

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

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

**FABRIC WEIGHT:** approx. 150 g/m<sup>2</sup>

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

**HI-VISION®**





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

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



## PARKA INCL. QUILTED JACKET

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

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



## BRACE TROUSERS INCL. QUILTED TROUSERS

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

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

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

**MATERIAL WEIGHT:** approx. 150 g/m²

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

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





Does your job sometimes feel as if you have been transported to snow-covered expanses? Then you will find the right outfit in our cold protection range. The collections have been specially developed for extreme temperatures in cold stores and designed so that the individual products complement each other and can be combined individually. From head to toe, from the inside out.





# TEMPEX® CLASSIC 2.0

## **COLD STORE**

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

**INTENSITY OF MOVEMENT:** intensive to normal

ITEM	COLOUR	COLOUR NO.	COLOUR NAME		REGULAR SIZES
1 ,2		45	navy	EN 342 Y: 0,428 (B) m² K/W AP: Class 2	Men: 46/48-58/60 Ladies: 36/38-44/46



Ladies



Adjustable faux fur collar

Preformed sleeves

Reflective tape



Men

Covered knitted cuffs

### **JACKET ORDER PICKER**

Cold Store (-49 °C)

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

Garment weight: approx. 1,660 g

### **LADIES JACKET ORDER PICKER**

Cold Store (-49 °C)

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

Garment weight: approx. 1,330 g

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



Ladies



Zip-through leg zippers  
with inner cover

2 |



Men

Preformed legs

#### TROUSERS ORDER PICKER

Cold Store (-49°C)  
Part number: **01174 2K012 000 45**  
Garment weight: approx. 1,400 g

#### LADIES TROUSERS ORDER PICKER

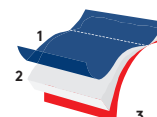
Cold Store (-49°C)  
Part number: **01174 2K017 000 45**  
Garment weight: approx. 1,200 g  
Without front zip • entry via zip-flies on both sides.

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

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

**FABRIC WEIGHT:** approx. 515 g/m² ·

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



# TEMPEX® CLASSIC

## CHILLROOM

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

**INTENSITY OF MOVEMENT:** normal

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



## JACKET

Chillroom (0–10 °C)

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

Garment weight: approx. 1,300 g

## LADIES JACKET

Chillroom (0–10 °C)

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

Garment weight: approx. 1,205 g

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







### BODY WARMER

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

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

### TROUSERS

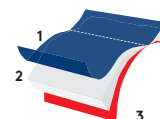
Chillroom (0–10 °C)  
Part number: **09044 2K024 000 2040**  
Garment weight: approx. 1,290 g

### LADIES TROUSERS

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

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

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



# TEMPEX® CLASSIC

## COLD STORE

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

**INTENSITY OF MOVEMENT:** intensive to normal

ITEM	COLOUR	COLOUR NO.	COLOUR NAME		REGULAR SIZES
1, 2		2040	navy/red	<small>EN 342</small> <small>Y: 0,448 (B) m² K/W</small> <small>Y: 0,344 (B) m² K/W (Acrylic fur)</small> <small>AP: Class 2</small>	Men: 46/48-58/60 Ladies: 36/38-44/46



### JACKET ORDER PICKER

Cold Store (-49 °C)

Part number: **09045 1K000 000 2040**

Garment weight: approx. 1,680 g

### LADIES JACKET ORDER PICKER

Cold Store (-49 °C)

Part number: **09045 1K001 000 2040**

Garment weight: approx. 1,380 g

### JACKET ORDER PICKER WITH ACRYLIC FUR LINING

Cold Store (-49 °C)

Part number: **09028 1K009 000 2040**

Garment weight: approx. 1,740 g

Completely with acrylic fur lining.

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





#### TROUSERS ORDER PICKER

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

#### LADIES TROUSERS ORDER PICKER

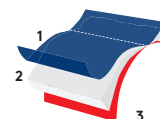
Cold Store (-49°C)  
Part number: **09045 2K001 000 2040**  
Garment weight: approx. 1,355 g

#### TROUSERS ORDER PICKER WITH ACRYLIC FUR LINING

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

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

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







# TEMPEX® CLASSIC

## COLD STORE // COLD STORE PLUS

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

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

**INTENSITY OF MOVEMENT:** intensive to normal // low

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



### COAT VISITOR

Cold Store (-49 °C)

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

Garment weight: approx. 1,885 g

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



1 to 5 |  
Circumferential  
reflective tape on  
chest and legs

Adjustable  
hip size

### COVERALL ORDER PICKER

Cold Store (-49 °C)

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

Garment weight: approx. 2,410 g

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

COLD  
PROTECTION



3 |

3 and 5 | Tight-fitting collar of faux fur with a hook&loop fastener



4 |

Raised back

Belt

Full-length leg zippers covered inwards



5 |

4 and 5 | Knee insulation made of acrylic fur lining

#### JACKET FORKLIFT DRIVER

Cold Store Plus (-49°C)

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

Garment weight: approx. 1,840 g

#### JACKET FORKLIFT DRIVER PLUS

Cold Store Plus (-49°C)

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

Garment weight: approx. 2,095 g

Additional acrylic fur lining on the back.

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

#### TROUSERS FORKLIFT DRIVER

Cold Store Plus (-49°C)

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

Garment weight: approx. 1,650 g

#### TROUSERS FORKLIFT DRIVER PLUS

Cold Store Plus (-49°C)

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

Garment weight: approx. 1,845 g

Knee pockets including additional knee insulation.

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

#### COVERALL FORKLIFT DRIVER

Cold Store Plus (-49°C)

Part number: **01183 3K003 000 2040**

Garment weight: approx. 3,090 g

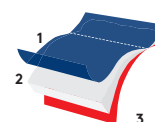
Two-coloured • tight-fitting collar of faux fur with hook&loop fastener • 2 chest pockets • 2 front pockets • covered 2-way front zipper • knitted cuffs • belt • elastic waistband in the back • leg zippers covered inwards • additional insulation at back and knees made of acrylic fur lining • reinforced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

**CONSTRUCTION:** 1) UPPER MATERIAL: 100 % POLYAMIDE • 2) PADDING: TEMPEX®

HIGH-BULK, INSULATING NON-WOVEN • 3) INNER LINING: 100 % POLYESTER •

**FABRIC WEIGHT:** COLD STORE approx. 520 g/m² • COLD STORE PLUS approx. 630 g/m² • approx. 645 g/m² (Coverall Forklift Driver) •

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



## CHILLROOM

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

**INTENSITY OF MOVEMENT:** normal

ITEM	COLOUR	COLOUR NO.	COLOUR NAME		REGULAR SIZES
1		2040	navy/red	EN 342 Y: 0,391 (B) m² K/W AP: Class 2	Men: 46/48–58/60 Ladies: 36/38–44/46
2				–	46/48–58/60
3		45	navy	EN 342 Y: 0,391 (B) m² K/W AP: Class 2	Men: 46/48–58/60 Ladies: 36/38–44/46



### JACKET

Chillroom (0–10 °C)

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

Garment weight: approx. 1,395 g

### LADIES JACKET

Chillroom (0–10 °C)

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

Garment weight: approx. 1,365 g

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





Front zipper with chin protection

2 |



Covered front zipper (only men's version)

Side pockets

Full-length 2-way leg zippers covered inwards

3 |

## BODY WARMER

Chillroom (0–10 °C)  
Part number: **01183 1K033 001 2040**  
Garment weight: approx. 640 g

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

## TROUSERS

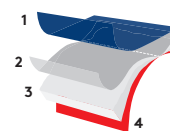
Chillroom (0–10 °C)  
Part number: **01183 2K008 006 45**  
Garment weight: approx. 1,485 g

## LADIES TROUSERS

Chillroom (0–10 °C)  
Part number: **01183 2K003 003 45**  
Garment weight: approx. 1,300 g

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

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



## COLD STORE

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

**INTENSITY OF MOVEMENT:** intensive to normal

ITEM	COLOUR	COLOUR NO.	COLOUR NAME		REGULAR SIZES
1		2040	navy/red	EN 342 Y: 0,435 (B) m² K/W AP: Class 2	Men: 46/48-58/60 Ladies: 36/38-44/46
2		45	navy		
3		2040	navy/red	EN 342 Y: 0,274 (R) m² K/W	46/48-58/60
4				EN 342 Y: 0,443 (B) m² K/W	



### JACKET ORDER PICKER

Cold Store (-49 °C)

Part number: **01183 1K005 000 2040**

Garment weight: approx. 1,730 g

### LADIES JACKET ORDER PICKER

Cold Store (-49 °C)

Part number: **01183 1K006 000 2040**

Garment weight: approx. 1,535 g

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

### TROUSERS ORDER PICKER

Cold Store (-49 °C)

Part number: **01183 2K002 000 45**

Garment weight: approx. 1,665 g

### LADIES TROUSERS ORDER PICKER

Cold Store (-49 °C)

Part number: **01183 2K003 000 45**

Garment weight: approx. 1,550 g

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



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

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



#### COAT VISITOR

Cold Store (-49°C)

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

Garment weight: approx. 1,720 g

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

4 |



Additional knee  
insulation made of  
acrylic fur lining

#### ORDER PICKER COVERALL

Cold Store (-49°C)

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

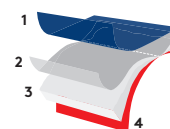
Garment weight: approx. 2,600 g

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

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

**FABRIC WEIGHT:** approx. 545 g/m² ·

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





## COLD STORE PLUS

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

**INTENSITY OF MOVEMENT:** low

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



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



Raised back

Additional knee  
insulation made of  
acrylic fur lining

### JACKET FORKLIFT DRIVER

Cold Store Plus (-49 °C)

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

Garment weight: approx. 1,840 g

### JACKET FORKLIFT DRIVER PLUS

Cold Store Plus (-49 °C)

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

Garment weight: approx. 2,090 g

Additional acrylic fur lining on the back.

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

### TROUSERS FORKLIFT DRIVER

Cold Store Plus (-49 °C)

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

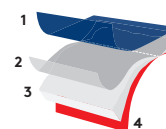
Garment weight: approx. 1,810 g

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

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

**FABRIC WEIGHT:** approx. 645 g/m² ·

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



## CHILLROOM

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

**INTENSITY OF MOVEMENT:** normal



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



### PARKA

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

### LADIES PARKA

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

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

### BODY WARMER

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

### LADIES BODY WARMER

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

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

### TROUSERS

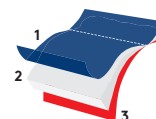
Chillroom (0–10°C)  
Part number: **01174 2K013 000 45**  
Garment weight: approx. 1,180 g

### LADIES TROUSERS

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

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

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


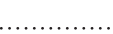

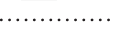




## CHILLROOM // COLD STORE

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

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

**INTENSITY OF MOVEMENT:** normal // intensive to normal

ITEM	COLOUR	COLOUR NO.	COLOUR NAME		REGULAR SIZES
1		3116	white/silver grey/ fluorescent yellow	EN 342 Y: 0,371 (B) m² K/W AP: Class 2	46/48–58/60
2		2237	white/silver grey	–	
3		2237	white/silver grey	EN 342 Y: 0,371 (B) m² K/W AP: Class 2	
4		3116	white/silver grey/ fluorescent yellow	EN 342 Y: 0,417 (B) m² K/W AP: Class 2	
5		3116	white/silver grey/ fluorescent yellow	EN 342 Y: 0,267 (R) m² K/W AP: Class 2	
6		2237	white/silver grey	EN 342 Y: 0,417 (B) m² K/W AP: Class 2	



### JACKET

Chillroom (0–10 °C)

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

Garment weight: approx. 1,180 g

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

### BODY WARMER

Chillroom (0–10 °C)

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

Garment weight: approx. 590 g

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

### TROUSERS

Chillroom (0–10 °C)

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

Garment weight: approx. 1,200 g

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



**JACKET ORDER PICKER**

Cold Store (-49°C)

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

Garment weight: approx. 1,205 g

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

**COAT VISITOR**

Cold Store (-49°C)

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

Garment weight: approx. 1,565 g

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

**TROUSERS**

Cold Store (-49°C)

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

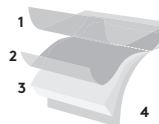
Garment weight: approx. 1,365 g

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

**CONSTRUCTION:** 1) UPPER MATERIAL: 100 % POLYAMIDE • 2) CHARMEUSE •

3) PADDING: TEMPEX® HIGH-BULK, INSULATING NON-WOVEN •

4) INNER LINING: 100 % POLYESTER •

**FABRIC WEIGHT:** CHILLROOM approx. 415 g/m² • COLD STORE approx. 515 g/m² •**FIELDS OF APPLICATION:** Food industry

CHILLROOM

COLD STORE

# TEMPEX® THERMO

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

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



## FLEECE JACKET

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

## LADIES FLEECE JACKET

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

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



## BODY WARMER

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

## LADIES FLEECE BODY WARMER

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

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



### FLEECE SHIRT

Intermediate clothing

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

Garment weight: approx. 290 g

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

### 3 and 4 |

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



### FLEECE TROUSERS

Intermediate clothing

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

Garment weight: approx. 410 g

### LADIES FLEECE TROUSERS

Intermediate clothing

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

Garment weight: approx. 365 g

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


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

**FABRIC WEIGHT:** 1|, 2|, 4| approx. 265 g/m<sup>2</sup> • 3| approx. 155 g/m<sup>2</sup>



# TEMPEX® THERMO

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

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

## JACKET ERGOPLUS

Intermediate clothing

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

Garment weight: approx. 435 g

## LADIES JACKET ERGOPLUS

Intermediate clothing

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

Garment weight: approx. 445 g

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



## BODY WARMER ERGOPLUS

Intermediate clothing

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

Garment weight: approx. 305 g

## LADIES BODY WARMER ERGOPLUS

Intermediate clothing

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

Garment weight: approx. 315 g

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



## TROUSERS ERGOPLUS

Intermediate clothing

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

Garment weight: approx. 370 g

## LADIES TROUSERS ERGOPLUS

Intermediate clothing

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

Garment weight: approx. 400 g

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





### JACKET

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

### LADIES JACKET

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

Single-coloured • high collar made of fleece • front zipper • left-side inside chest pocket with pencil pocket • knitted cuffs.



### BODY WARMER

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

### LADIES BODY WARMER

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

Single-coloured • high collar made of fleece • front zipper • left-side inside chest pocket with pencil pocket.



4 and 5 | Inside chest pocket with pencil pocket



### TROUSERS

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

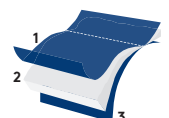
### LADIES TROUSERS

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

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


Leg end with knitted cuffs

**CONSTRUCTION:** 1) UPPER MATERIAL: 100 % POLYAMIDE · 2) PADDING: DIAMOND NON-WOVEN INSULATION · 3) INNER LINING: 100 % POLYESTER ·  
**FABRIC WEIGHT:** approx. 245 g/m<sup>2</sup>



# TEMPEX® THERMO HYGIENE

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

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

## JACKET ERGOPLUS

Intermediate clothing

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

Garment weight: approx. 435 g

## LADIES JACKET ERGOPLUS

Intermediate clothing

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

Garment weight: approx. 445 g

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

1|



Men

## BODY WARMER ERGOPLUS

Intermediate clothing

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

Garment weight: approx. 305 g

## LADIES BODY WARMER ERGOPLUS

Intermediate clothing

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

Garment weight: approx. 315 g

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

2|



Men

3|



Men

Pre-formed legs

Legs with fleece at the bottom

## TROUSERS ERGOPLUS

Intermediate clothing

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

Garment weight: approx. 370 g

## LADIES TROUSERS ERGOPLUS

Intermediate clothing

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

Garment weight: approx. 400 g

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





### JACKET

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

### LADIES JACKET

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

Single-coloured • high collar made of fleece • front zipper • left-side inside chest pocket with pencil pocket • knitted cuffs.



### BODY WARMER

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

### LADIES BODY WARMER

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

Single-coloured • high collar made of fleece • front zipper • left-side inside chest pocket with pencil pocket.



### TROUSERS

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

### LADIES TROUSERS

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

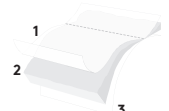
Single-coloured • elastic waistband • front zipper • leg end with knitted cuffs.



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

3) 100 % POLYESTER INNER LINING ·

**FABRIC WEIGHT:** approx. 245 g/m<sup>2</sup>



# TEMPEX® THERMO ACCESSORIES

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

## UNDERSHIRT LONG-SLEEVE

Accessories

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

Garment weight: approx. 215 g

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

Material: 55 % Polyester, 45 % Cotton

Sizes: 6–8

■ navy



1, 2 and 3 |  
Non-bulky flat seams

## UNDERSHIRT TROYER LONG-SLEEVE

Accessories

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

Garment weight: approx. 230 g

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

Material: 55 % Polyester, 45 % Cotton

Sizes: 6–8

■ navy



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

## UNDERPANTS LONG

Accessories

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

Garment weight: approx. 205 g

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

Material: 55 % Polyester, 45 % Cotton

Sizes: 6–8

■ navy



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

## KIDNEY BELT

Accessories

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

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

Material: 100 % Polyester

Sizes: S–2XL

■ navy





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

### ALASKA HOOD

Accessories

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

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

Sizes: 1/56–5/64

Sale unit: 1 piece

■ navy

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



Matching the TEMPEX® CLASSIC 2.0 collection

### HOOD CLASSIC

Accessories

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

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

One size

Sale unit: 1 piece

■ navy



Matching the TEMPEX® CLASSIC collection

### HOOD COMFORT

Accessories

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

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

One size

Sale unit: 1 piece

■ navy



Matching the TEMPEX® COMFORT collection

### HOOD HYGIENE

Accessories

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

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

One size

Sale unit: 1 piece

□ white



Matching the TEMPEX® HYGIENE collection



# TEMPEX® THERMO ACCESSORIES

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

## **KNITTED CAP**

Accessories

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

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

One size

Sale unit: 1 piece

 **46** black  
 **10** white



## **BALACLAVA**

Accessories

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

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

One size

Sale unit: 1 piece

 black



## **BALACLAVA DOUBLE-LAYERED**

Accessories

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

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

One size

Sale unit: 1 piece

 navy





### INSULATED SAFETY HELMET

Accessories

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

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


### INSULATING INSERT

Accessories

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

One size

Sale unit: 1 piece

 orange/dark blue

 dark blue

Standards:



EN 50365



EN 397



Removable, washable insulated insert

### FLEECE NECK WARMER

Accessories

Part number: **07034 75000 000 46**

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

One size

Sale unit: 1 piece

 black



Soft lap seam on the back

### GRS – Global Recycled Standard



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

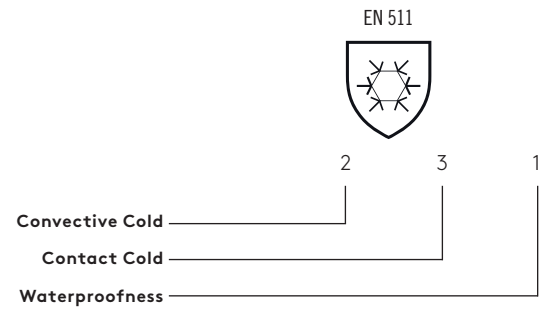
# TEMPEX® THERMO ACCESSORIES

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

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

## Protective gloves against cold EN 511:2006

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



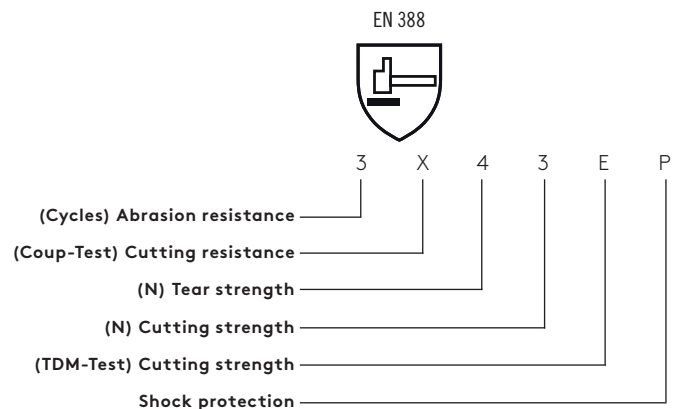
## Performance levels for protective gloves against cold according to EN 511

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

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

## Protective gloves against mechanical risks EN 388:2016

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



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

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

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





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

1|

Forefinger reinforcement

Suitable for Touchscreens



COOL ENVIRONMENT

#### GLOVES TOUCH & CUT 4

Accessories

Part number: **04103 76027 004 2128**

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

grey/black

2|

Signal color

Suitable for Touchscreens



COLD ENVIRONMENT

#### GLOVES TOUCH & HI-VIS

Accessories



Part number: **14016 76027 005 2171**

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

fluorescent yellow/black

# TEMPEX® THERMO ACCESSORIES

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

ITEM			MATERIAL LAYER CONSTRUCTION			SIZES
			BACK OF HAND	LINING	PALM OF HAND	
1	EN 511 12 X	EN 388 2141 X	Neoprene	Fleece	MACROTHAN® (Nylon and PU)	7-11
2	EN 511 221	EN 388 2121 X	Polyester	Thinsulate™ 100g, Fleece	MICROTHAN® + (Nylon and PU)	7-13

1



## GLOVES TK PRO

Accessories

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

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

 black/middle grey

2





## GLOVES AQUA PRO

Accessories

Part number: **04102 76027 001 3395**

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

 middle grey/black/yellow

ITEM			MATERIAL LAYER CONSTRUCTION			SIZES
			BACK OF HAND	LINING	PALM OF HAND	
1	EN 511 221	EN 388 2222X	Neoprene, full grain goat leather	Thinsulate™ 120 g	Full grain goat leather	7-12
2	EN 511 231	EN 388 2122X	Neoprene, Polyester	Thinsulate™ 150 g	Full grain cowhide leather	
3						

1 |

Full-leather glove





VERY COLD ENVIRONMENT

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

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

 black

2 |

Long model





VERY COLD ENVIRONMENT

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

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

 black/white

3 |

Signal colour






VERY COLD ENVIRONMENT

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

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

 fluorescent green/white/black



# TEMPEX® THERMO ACCESSORIES

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

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



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



## **FLEECE GLOVES, KNIT & GRIP**

Accessories

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

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

 black



## **FLEECE GLOVES, RUBBER GRIP**

Accessories

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

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

 black



ITEM		MATERIAL	SIZES
1	EN 388 214XX	Cotton, Polyamide	8-10
2	-	Polypropylene	One size

1 |



EN 388

Additional insulation  
underneath cold  
protection gloves

### KNITTED GLOVES, GRIP

Accessories

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

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

 navy

2 |

Processed  
seamless



### UNDERGLOVES

Accessories

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

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

 navy

# ▶ TEMPEX® THERMO ACCESSORIES

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

## S2 INSULATED SAFETY BOOTS

Accessories

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

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

Sizes: 37–50

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

Standards:



EN 20345

Insulated steel toecap



Non-slip and cold-resistant outsole



Easy-to-put-on-zipper





COLD  
PROTECTION



## S2 LACED SAFETY BOOTS

Accessories

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

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

Sizes: 36–50

■ black

Standards:



EN 20345



## UNIVERSAL SOCKS

Accessories

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

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

One size

Sale unit: 1 piece

■ dark grey



## ALASKA SOCKS

Accessories

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

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

Sizes: 37-38 to 47-48

Sale unit: 1 pair

■ middle grey



## LINER SOCKS

Accessories

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

Single-coloured • made of tricot • flannel lining.

Sizes: 38–47

Sale unit: 1 piece

■ middle grey

FIRE & RESCUE SERVICES

GO ALL OUT FOR  
YOUR MISSION





In addition to high-quality day shift wear for fire brigades, we also offer modern protective clothing for technical assistance and area fire fighting. They meet the highest functional demands and also impress with a great look, useful features and outstanding wearing comfort. So much in fact, that you'll be happy to keep them on even after you've gone off duty.





# Flammgard® KLASSIK

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

ITEM	COLOUR	COLOUR NO.	COLOUR NAME		REGULAR SIZES
1 ,2		48	dark blue	EN ISO 11612 A1+A2/B1/C1	Men: 44–54, 24–27, 90–106 Ladies: 36–48, 18–23, 72–92

1|



Comfortable  
side folds

Adapters available for any  
kind of shoulder tunnel



Elasticated hem

## **BLOUSON**

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

## **LADIES BLOUSON**

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

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



2 |



Reinforced elbows

Hook&loop tape  
for name badge



### JACKET

Dayshift firefighters

Part number: **01041 10162 000 48**

Garment weight: approx. 1,150 g

### LADIES JACKET

Dayshift firefighters

Part number: **01041 10174 000 48**

Garment weight: approx. 1,100 g

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

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

**FABRIC WEIGHT:** approx. 300 g/m<sup>2</sup>

**FIELDS OF APPLICATION:** Day shift wear for firemen



# Flammgard® KLASSIK

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

ITEM	COLOUR	COLOUR NO.	COLOUR NAME			REGULAR SIZES
3		48	dark blue	EN ISO 11612 A1+A2/B1/C1	EN ISO 13688 HuPF 2	Men: 44-54, 24-27, 90-106 Ladies: 36-48, 18-23, 72-92
4		2051	dark blue/yellow	-	-	
5		46	black	-	-	44-54, 24-27, 90-106
		45	navy	-	-	S-2XL

## TROUSERS

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

## LADIES TROUSERS

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

## TROUSERS, ELASTIC WAISTBAND

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

## TROUSERS WITH REFLECTIVE TAPE

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

## LADIES TROUSERS WITH REFLECTIVE TAPE

Dayshift firefighters  
Part number: **01041 20117 003 2051**  
Garment weight: approx. 740 g  
Reflective stripes parallel to the seam • no Hi-Vis  
protective clothing acc. to EN ISO 20471 and EN 17353.

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



## ACCESSORIES

Accessories

### Adapter for rank badge

Flap with hook&loop fastening.

### Name badges

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







### SOFTSHELLJACKET

Dayshift firefighters

Part number: **11001 10161 014 46**

Garment weight: approx. 1,070g

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

Shoulder tunnel for rank badge



Hook&loop tape for name badge

### FLEECE JACKET

Dayshift firefighters

Part number: **07001 10151 000 45**

Garment weight: approx. 700g

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

5 |



Flap with pen opening

Hem with ribbed structure

**MATERIAL:** 3 | 49 % ARAMIDE, 50 % VISCOSE FR, 1 % CARBON • 4 | 94 % POLYESTER, 6 % CARBON • 5 | 100 % POLYESTER •

**FABRIC WEIGHT:** 3 | and 5 | approx. 300 g/m<sup>2</sup> • 4 | approx. 260 g/m<sup>2</sup> •

**FIELDS OF APPLICATION:** Day shift wear for firemen



# Flammgard® NORDRHEIN-WESTFALEN

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

ITEM	COLOUR	COLOUR NO.	COLOUR NAME			REGULAR SIZES
1		488	black blue		—	Men: 44–54, 24–27, 90–106 Ladies: 36–48, 18–23, 72–92
2						



## BLOUSON

Dayshift firefighters

Part number: **01056 10149 000 488**

Garment weight: approx. 1,125 g

## LADIES BLOUSON

Dayshift firefighters

Part number: **01056 10168 000 488**

Garment weight: approx. 1,060 g

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



### TROUSERS (HuPF PART 2)

Dayshift firefighters

Part number: **01056 20106 000 488**

Garment weight: approx. 770 g

### LADIES TROUSERS

Dayshift firefighters

Part number: **01056 20117 000 488**

Garment weight: approx. 740 g

### TROUSERS WITHOUT CARGO POCKET

Dayshift firefighters

Part number: **01056 20106 001 488**

Garment weight: approx. 740 g

### LADIES TROUSERS WITHOUT CARGO POCKET

Dayshift firefighters

Part number: **01056 20117 001 488**

Garment weight: approx. 710 g

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



### ACCESSORIES

Accessories

Also available for North Rhine-Westfalia blouson:

#### Adapter for rank badge

Flap with hook&loop fastening.

#### Name badges

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



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

**FABRIC WEIGHT:** approx. 260 g/m<sup>2</sup>

**FIELDS OF APPLICATION:** Day shift wear for firemen North Rhine-Westfalia





# Flammgard® BADEN-WÜRTTEMBERG

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

ITEM	COLOUR	COLOUR NO.	COLOUR NAME			REGULAR SIZES
1 , 2		2240	black blue/red	EN ISO 11612 A1+A2/B1/C1	—	Men: 44–54, 24–27, 90–106 Ladies: 36–48, 18–23, 72–92
3					EN ISO 13688 HuPF 2	

## BLOUSON

Dayshift firefighters

Part number: **01056 10150 025 2240**

Garment weight: approx. 1,040 g

## LADIES BLOUSON

Dayshift firefighters

Part number: **01056 10163 021 2240**

Garment weight: approx. 1,000 g

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



## JACKET

Dayshift firefighters

Part number: **01056 10159 010 2240**

Garment weight: approx. 1,060 g

## LADIES JACKET

Dayshift firefighters

Part number: **01056 10169 005 2240**

Garment weight: approx. 1,020 g

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





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

### TROUSERS

Dayshift firefighters

Part number: **01056 20103 001 2240**

Garment weight: approx. 690 g

### LADIES TROUSERS

Dayshift firefighters

Part number: **01056 20111 003 2240**

Garment weight: approx. 670 g

### TROUSERS ACC. TO VWV

Dayshift firefighters

Part number: **01056 20110 000 2240**

Garment weight: approx. 690 g

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

3 |



Waistband with hook&loop fastening and elasticated on the sides

### ACCESSORIES

Accessories

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

#### Adapter for rank badge

Flap with hook&loop fastening.

#### Name badges

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



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

**FABRIC WEIGHT:** approx. 260 g/m<sup>2</sup>

**FIELDS OF APPLICATION:** Day shift wear for firemen Baden-Württemberg



# Flammgard® BADEN-WÜRTTEMBERG

For Baden-Württemberg, there are an additional softshell jacket with black or red lining as well as a fleece jacket for colder days.

Both jackets are also suitable for use as day-shift wear.

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

## SOFTSHELLJACKET

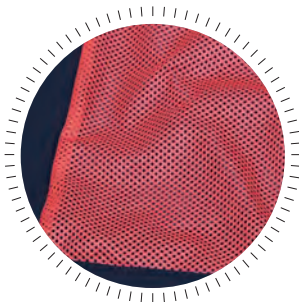
Dayshift firefighters

Part number: **11001 10161 010 2046**

Garment weight: approx. 1,070 g

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

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



## FLEECE JACKET

Dayshift firefighters

Part number: **07001 10152 000 2040**

Garment weight: approx. 700 g

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



Hook&loop fastener for name badge



Hem with ribbed structure

**MATERIAL:** 4 | 94 % POLYESTER, 6 % ELASTANE · 5 | 100 % POLYESTER ·

**FABRIC WEIGHT:** 4 | approx. 300 g/m<sup>2</sup> · 5 | approx. 260 g/m<sup>2</sup> ·

**FIELDS OF APPLICATION:** Day shift wear for firemen Baden-Württemberg





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



ITEM	COLOUR	COLOUR NO.	COLOUR NO.		REGULAR SIZES
1   2		2240	black blue/red	 EN ISO 11612 A1+A2/B1/C1	Men: 44-54, 24-27, 90-106 Ladies: 36-48, 18-23, 72-92

## BLOUSON

Dayshift firefighters

Part number: **01056 10150 026 2240**

Garment weight: approx. 1,040 g

## LADIES BLOUSON

Dayshift firefighters

Part number: **01056 10163 022 2240**

Garment weight: approx. 1,000 g

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



## JACKET

Dayshift firefighters

Part number: **01056 10198 002 2240**

Garment weight: approx. 1,060 g

## LADIES JACKET

Dayshift firefighters

Part number: **01056 10169 006 2240**

Garment weight: approx. 1,020 g

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



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

**FABRIC WEIGHT:** approx. 260 g/m²

**FIELDS OF APPLICATION:** Day shift wear for firemen Saarland



# Flammgard® SAARLAND

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

ITEM	COLOUR	COLOUR NO.	COLOUR NAME			REGULAR SIZES
3		2240	black blue/red	EN ISO 11612 A1+A2/B1/C1	EN ISO 13688 HuPF 2* * only signed men's trousers	Men: 44-54, 24-27, 90-106 Ladies: 36-48, 18-23, 72-92
4		2046	black/red	—	—	44-54, 24-27, 90-106
5		2040	navy/red	—	—	S-2XL

## **TROUSERS**

Dayshift firefighters

Part number: **01056 20103 016 2240**

Garment weight: approx. 690 g

## **LADIES TROUSERS**

Dayshift firefighters

Part number: **01056 20137 001 2240**

Garment weight: approx. 670 g

## **TROUSERS ACC. TO VWV (HuPF PART 2)**

Dayshift firefighters

Part number: **01056 20110 002 2240**

Garment weight: approx. 710 g

Two-coloured • waistband with hook fastening and elasticated on both sides • 2 pleats at the front of the trousers • covered zip • 2 side pockets • 2 recessed back pockets with flap and hook&loop fastening • 2 bellow pockets on the side seam with flaps and hook&loop fastening, flaps with red trim and underlined "FEUERWEHR" embroidery • right-hand flap with opening for pen • lined crotch • seat seam designed to be easy to modify.



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

3 |



## **ACCESSORIES**

Accessories

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

### **Adapter for rank badge**

Flap with hook&loop fastening.

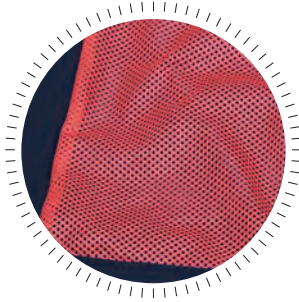
### **Name badges**

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





Jacket also available with red mesh lining (Part number: **11001 10161 013 2046**)



### SOFTSHELL JACKET

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

Two-coloured • decorative red piping on front and back • shoulder tunnel for rank badge • collar with flap and hook&loop fastening • front zipper with covered snap fastener • 2 breast pockets with flap and snap fastener • right-hand pocket with pen compartment and hook&loop tape for name badge on the flap • left-hand flap with "FEUERWEHR" underlined embroidery • loop with metal half ring in the pocket • 2 side pockets as welt pockets with zips • 1 Napoleon pocket • 1 closable inside mobile phone pocket • sleeves with adjustable wristbands via covered snap fastener • back with "FEUERWEHR" patch.



Decorative piping on front and back

Hook&loop tape for name badge

### FLEECE JACKET

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

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



Hem with ribbed structure

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

**FABRIC WEIGHT:** 3 | approx. 260 g/m<sup>2</sup> • 4 | approx. 300 g/m<sup>2</sup> • 5 | approx. 260 g/m<sup>2</sup> •

**FIELDS OF APPLICATION:** Day shift wear for firemen Saarland





# HB-TECHNICAL RESCUE

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

ITEM	COLOUR	COLOUR NO.	COLOUR NAME			REGULAR SIZES
1		3271	dark blue/ fluorescent yellow/ black	EN ISO 11612 A1+A2/B1/C1	EN 343 4 4 X (excl. Fleecejacket) EN 343 4 3 X (incl. Fleecejacket)	44-54, 24-27, 90-106
2		2395	black blue/black			
3		2047	black/navy	-	-	S-2XL



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



Torch holder with deflection flap for stable hold

Ergonomically formed sleeves with elbow reinforcement

## PARKA

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

Single-coloured • segmented reflective stripes • stand-up collar with flap and hook&loop fastening • covered front zipper with covered hook&loop fastening • hook&loop tape on the front and on the back to attach the additional collar • 2 added breast pockets for radio devices with covered hook&loop fastening • opening for the antenna on the right with two radio attachment hooks • 1 inside pocket on the right • 2 sidepockets with flap and covered hook&loop fastening • 2 movement pleats on the back • ergonomically formed sleeves with elbow reinforcement • sleeve hem with strap for adjustment with hook&loop fastening • sleeve hem with cuff and thumb loop • jacket and trouser in combination fullfills DGUV 205-20 Information • virus and bacteria-proof due to laminate according to ISO 16603 and ISO 16604 • no Hi-Vis protective clothing acc. to EN ISO 20471 and EN 17353 • zippers to zip in a fleece jacket.



## TROUSERS

Technical assistance FR

Part number: **01056 20147 000 2395**

Garment weight: approx. 810g

Single-coloured • segmented reflective stripes • detachable braces • waistband with hook fastening • covered zip fly • elasticated waist in the side • 2 slant pockets, 1 hip pockets, 2 below pockets on side seam – each with flap and hook&loop fastening • 2 inside knee pockets • reinforcement material on knee and hem • hem with elastic • no Hi-Vis protective clothing acc. to EN ISO 20471 and EN 17353.



## FLEECE JACKET

Technical assistance FR

Part number: **07015 19006 000 2047**

Garment weight: approx. 700g

Two-coloured • high stand-up collar • inner collar made of Nomex® • zip for closing as well as for zipping into our HB-Technical Rescue Parka • loops at the sleeve hem for fixing in the jacket • sleeve cuffs with elastic band • material certified according to EN ISO 11612 A1/B1/C2/F1.



**MATERIAL:** 1 | 98 % ARAMIDE, 2 % CARBON · 2 | 59 % ARAMIDE, 40 % VISCOSE FR, 1 % CARBON ·

3 | 48 % MODACRYLIC, 32 % COTTON, 18 % POLYESTER, 2 % CARBON ·

**FABRIC WEIGHT:** 1 | approx. 195 g/m<sup>2</sup> · 2 | approx. 260 g/m<sup>2</sup> · 3 | approx. 260 g/m<sup>2</sup> ·

**FIELDS OF APPLICATION:** Technical assistance

# HB-TECHNICAL RESCUE LITE

A real classic in the field of technical assistance: our suit made of hard-wearing and flame-retardant fabric with DGUV-compliant reflective striping in combination of jacket and trousers. Back labels can be attached to wide fleece strips on the upper back.

ITEM	COLOUR	COLOUR NO.	COLOUR NAME			REGULAR SIZES
1		48	dark blue	EN ISO 11612 A1+A2/B1/C1	—	46–54, 24–27, 90–106
2						



## JACKET

Dayshift firefighters

Part number: **01041 10162 001 48**

Garment weight: approx. 1,100g

Single-coloured • with reflective stripes • yoke partition on front and back • collar with flap and hook&loop fastening • front zipper with snap fastener covered on both sides • 2 breast pockets with flaps and hook&loop fastening • right-hand pocket flap with hook&loop tape for name badge • left-hand flap with additional pocket opening under the flap • loop with metal half ring in the pocket • 2 side patch pockets with flaps • 2 inside pockets in various designs • cuffs with gusset, adjustable via covered hook&loop fastening • hem with drawstring • back with hook&loop tape for badge • sleeves with reinforced elbows • no Hi-Vis protective clothing acc. to EN ISO 20471 and EN 17353 • flame-retardant lining.





2 |



## TROUSERS

Dayshift firefighters

Part number: **01041 20086 006 48**

Garment weight: approx. 740 g

Single-coloured • with reflective stripes • waistband with hook&loop fastening • 2 pleats on the front of the trousers, 4 darts on the back • with front and crotch lining • zip covered on one side • 2 side pockets • 1 back pocket with flap and hook&loop fastening • 2 bellow pockets on the side seam with flaps and hook&loop fastening • adjustable elasticated hem • seat seam designed to be easy to modify • no Hi-Vis protective clothing acc. to EN ISO 20471 and EN 17353.

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

**FABRIC WEIGHT:** approx. 300 g/m<sup>2</sup>

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

# HB-WILDFIRE 2.0

HB-WILDFIRE 2.0 was developed together with a German fire brigade especially for the increasing demands on the emergency services. A safe and comfortable outfit that protects against flames and relieves physical strain, e.g. thanks to inner lining with hydrophilic equipment as well as light and durable outer material that withstands many washes.

ITEM	COLOUR	COLOUR NO.	COLOUR NAME			REGULAR SIZES
1		<b>3390</b>	red/dark blue/black			46-54, 24-27, 90-106
		<b>3393</b>	dark blue/dark blue/black			
		<b>3394</b>	gold/gold/black			



Segmented reflective stripes

Elbow reinforcement with silicone-coated trim



## JACKET

Wildland firefighting

Part number: **01284 10196 003 + COLOUR NO.**

Garment weight: approx. 1,200 g

Three-coloured • with segmented yellow/silver/yellow reflective stripes • not a high-visibility garment according to EN ISO 20471 and EN 17353 • stand-up collar with flap and snap fastener • fastening strip with zip and covered snap fastener • covered hook&loop strips on front and back for fastening the overcoat back collar • front part lined • elbow reinforcement with silicone-coated trim • 2 set-in radio pockets on the chest with flaps and covered hook&loop fastener; right with opening for the antenna and 2 hook straps for attaching the radio • 1 inside pocket on the right; 1 Napoleon pocket on the left • 2 set-in side pockets with flap and covered hook&loop fastener • back section with 2 movement pleats • ergonomically shaped sleeves with adjustable hem width.



Stand-up collar with flap and snap fastener

Inserted walkie-talkie pockets

Hook&loop strips for back collar covered with outer material






Opening for antenna/hook straps for radio attachment

Inner lining with hydrophilic features: absorbs moisture, releases it in the form of evaporative cooling -> the wearer does not sweat as quickly

**MATERIAL:** 49.5 % VISCOSE FR, 49.5 % ARAMID, 1 % CARBON

**FABRIC WEIGHT:** approx. 230 g/m<sup>2</sup>

**FIELDS OF APPLICATION:** Fire fighting in wide areas, Technical Assistance

ITEM	COLOUR	COLOUR NO.	COLOUR NAME	THREE REGULAR SIZES
2		10	white	<b>44:</b> for jackets sz. 40–48; 86–98; 20–24
		17	yellow	<b>54:</b> for jackets sz. 50–58; 102–118; 25–29
		25	red	<b>64:</b> for jackets sz. 60–70; 122–142; 30–35
		35	moss green	
		41	royal	



#### IDENTIFICATION COLLAR

Wildland firefighting

Part number: **01036 70049 000 + COLOUR NO.**

Optional label collar complementing the jacket in order to indicate the function • available in several colours for different functions • attached via hook&loop tape on the front and on the back of the jacket.

Back with red identification collar



2 |



**MATERIAL:** 54 % MODACRYLIC, 45 % COTTON, 1 % CARBON

**FABRIC WEIGHT:** approx. 320 g/m<sup>2</sup>

**FIELDS OF APPLICATION:** Fire fighting in wide areas, Technical Assistance



# HB-WILDFIRE 2.0

HB-WILDFIRE 2.0 was developed together with a German fire brigade especially for the increasing demands on the emergency services. A safe and comfortable outfit that protects against flames and relieves physical strain, e.g. thanks to inner lining with hydrophilic equipment as well as light and durable outer material that withstands many washes.

ITEM	COLOUR	COLOUR NO.	COLOUR NAME			REGULAR SIZES
3		2197	red/black	EN ISO 11612 A1+A2/B1/C1	EN 15384	46-54, 24-27, 90-106
		2395	black blue/black			
		2414	gold/black			



## TROUSERS

Wildland firefighting  
Part number: **01284 20152 000 + COLOUR NO.**  
Garment weight: approx. 870 g

Two-coloured • with segmented yellow/silver/yellow reflective stripes • no warning clothing according to EN ISO 20471 and EN 17353 • buttons in the waistband for attaching braces • waist adjustment by elastic band on the sides • covered zip • 2 wing pockets • silicone coated knee reinforcement and hem protection • inner leg reinforcement • 1 hip pocket • 2 bellow pockets on side seam each with flap and hook&loop • 2 outside knee pockets • hem with adjustable elastic band.



Knee reinforcement with silicone-coated trim



**MATERIAL:** 49.5 % MODACRYLIC, 49.5 % COTTON, 1 % CARBON  
**FABRIC WEIGHT:** approx. 230 g/m<sup>2</sup>  
**FIELDS OF APPLICATION:** Fire fighting in wide areas, Technical Assistance



ITEM	COLOUR	COLOUR NO.	COLOUR NAME	REGULAR SIZES
4		25	red	One size
		488	black blue	
		68	gold	



With the braces  
the trousers can be turned  
into bib and brace trousers in  
no time at all



#### BRACES

Wildland firefighting

Part number: **01284 70064 001 + COLOUR NO.**

Single-coloured • adjustable buckles to adjust  
length • elasticated back • buttonholes to  
attach to trousers.



**MATERIAL:** 49.5 % MODACRYLIC, 49.5 % COTTON, 1 % CARBON

**FABRIC WEIGHT:** approx. 230 g/m<sup>2</sup>

**FIELDS OF APPLICATION:** Fire fighting in wide areas, Technical Assistance

ESD ELECTROSTATIC DISCHARGE

NO MATTER WHAT ELECTRIFIES YOU: YOUR OUTFIT  
REMAINS UNAFFECTED





Not everyone has the ability to let environmental voltages roll off them. Our high-quality ESD clothing does: it offers reliable conductivity and prevents sensitive product parts in electronics production from being damaged by electrostatic discharge. Very reassuring: each of our products has to pass extensive tests to become part of our unrivalled ESD range.



CONDUCTEX® is one of the lightest and most comfortable materials for protection of products against electrostatic discharge. Furthermore, the blended fabric offers a good functionality and high wearing comfort. The closure seams are additionally edged. Fabric with the quality label "breathability" of the Hohenstein certification institute.

## LADIES COAT, SHORT SLEEVE

ESD

Part number: **08005 48027 000 10**

Garment weight: approx. 335 g

Single-coloured • female cut • lapel collar • front with one-sided covered snap fasteners • 2 side pockets with slanted openings • embroidered EPA logo on right upper arm.

Regular sizes: XS-L

☐ white

Standards:



EN 61340-5-1

1 |



Female cut

## LADIES COAT, LONG SLEEVE

ESD

Part number: **08005 48028 000 10**

Garment weight: approx. 360 g

Single-coloured • female cut • lapel collar • front with one-sided covered snap fasteners • 2 side pockets with slanted openings • sleeve hem adjustable via snap fasteners • embroidered EPA logo on right upper arm.

Regular sizes: XS-L

☐ white

Standards:



EN 61340-5-1

2 |



3 |



## COAT, WITH KNITTED CUFFS

ESD

Part number: **08005 48011 040 10**

Garment weight: approx. 350 g

Single-coloured • cut without side seams • lapel collar • fastener strip with covered snap fasteners • 1 breast pocket attached on left • 2 side pockets with slanted openings • sleeves with stretchable knitted cuffs • embroidered EPA logo on right upper arm.

Regular sizes: S-2XL

☐ white

Standards:



EN 61340-5-1



### LADIES COAT, SHORT SLEEVE

ESD

Part number: **08005 48019 005 10**

Garment weight: approx. 275 g

Regular sizes: XS-L

### COAT, SHORT SLEEVE

ESD

Part number: **08005 48011 011 10**

Garment weight: approx. 285 g

Regular sizes: S-2XL

Single-coloured • cut without side seams • lapel collar • front with one-sided covered snap fasteners • 1 attached front pocket on the left • 2 attached side pockets with slanted openings • 2 front tucks on ladies' coat • hemmed short-sleeve • embroidered EPA logo on right upper arm.

☐ white

Standards:



EN 61340-5-1



### LADIES COAT, LONG SLEEVE

ESD

Part number: **08005 48019 000 + COLOUR NO.**

Garment weight: approx. 320 g

Regular sizes: XS-L

### COAT, LONG SLEEVE

ESD

Part number: **08005 48011 000 + COLOUR NO.**

Garment weight: approx. 330 g

Regular sizes: S-2XL

Single-coloured • cut without side seams • lapel collar • front with one-sided covered snap fasteners • 1 attached front pocket on the left • 2 attached side pockets with slanted openings • 2 front tucks on ladies' coat • sleeve hem adjustable via snap fasteners • embroidered EPA logo on right upper arm.

☐ 10 white

☒ 41 royal

☒ 45 navy

☒ 46 black

☒ 50 silver grey

☒ 471 pastel blue

☒ 58 anthracite

Standards:



EN 61340-5-1



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

**FABRIC WEIGHT:** approx. 130 g/m<sup>2</sup>

**SURFACE RESISTIVITY:** 10<sup>6</sup> to 10<sup>7</sup> Ω (used test climate: 23 (±1) °C room temperature, 25 (±5) % air humidity)

**FIELDS OF APPLICATION:** Electronics manufacturing

**CONDUCTEX**



CONDUCTEX® is one of the lightest and most comfortable materials for protection of products against electrostatic discharge. Furthermore, the blended fabric offers a good functionality and high wearing comfort. The closure seams are additionally edged. Fabric with the quality label "breathability" of the Hohenstein certification institute.



## BLOUSON

ESD

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

Garment weight: approx. 380 g

Single-coloured • stand-up collar with slanted corner and covered snap fastener • front with covered snap fastening • 1 straight cut pocket on the left front • 2 side pockets with zipper • ergonomic sleeves • sleeve hem adjustable via snap fastener • leasing label on the inside in the back • embroidered EPA logo.

Regular sizes: 46–58, 94–110

 **41** royal

 **45** navy

Standards:



EN 61340-5-1



Adjustable  
waistband



Hohenstein  
breathability label

2 |



2 |



Leg Pocket

Embroidered  
EPA Logo

## TROUSERS

ESD


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

Garment weight: approx. 290 g

Single-coloured • attached waistband with covered button fastening • slit detail with plastic fastening • adjustable elastic band in the back with button • 2 wing pockets • 2 back pockets without flap and fastening • 1 thigh pocket on the right with flap and covered snap fastening • embroidered EPA emblem.

Regular sizes: 46–58, 94–110

 **41** royal

 **45** navy

Standards:



EN 61340-5-1



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

**FABRIC WEIGHT:** approx. 130 g/m<sup>2</sup>

**SURFACE RESISTIVITY:** 10<sup>6</sup> bis 10<sup>7</sup> Ω (used test climate: 23 (±1) °C room temperature, 25 (±5) % air humidity)

**FIELDS OF APPLICATION:** Warehouse works within the electronic manufacture

**CONDUCTEX<sup>®</sup>**

# ▶ CONDUCTEX® Cotton Knit

High Functionality – High Comfort: T-Shirts and Polo shirts made of CONDUCTEX® Cotton Knit offer high wearing comfort as they are knitted, not woven. This design allows for very high mobility. Furthermore, the materials are characterised by very good functionality thanks to its carbon file. Available in numerous colours and womens' shirts with female cut.



## T-SHIRT, SHORT SLEEVE

ESD

Part number:

**08010 86002 000 + COLOUR NO.**

Garment weight: approx. 180 g

Single-coloured • comfortable neck width • stylish shirt length, suitable for wearing on top • embroidered EPA logo on right upper arm.

Regular sizes: S–2XL

- **41** royal
- **45** navy
- **46** black
- **50** silver grey

Standards:



EN 61340-5-1

## POLO SHIRT, SHORT-SLEEVE

ESD

Part number:

**08011 86004 002 + COLOUR NO.**

Garment weight: approx. 210 g

Single-coloured • conductive polo collar • polo placket with buttoning • front pocket on the left with button • double-stitched sleeve opening • stylish shirt length, suitable for wearing on top • embroidered EPA logo on right upper arm.

Regular sizes: S–2XL

- **10** white
- **50** silver grey
- **45** navy
- **46** black

More colours available on request.

Standards:



EN 61340-5-1



ESD  
ELECTRO-  
STATIC  
DISCHARGE



### POLO SHIRT, SHORT-SLEEVE

ESD






Part number:

**08011 86004 000 + COLOUR NO.**

Garment weight: approx. 220 g

Two-coloured • conductive polo collar • polo placket with buttoning • front pocket on the left with button • double-stitched sleeve opening • stylish shirt length, suitable for wearing on top • embroidered EPA logo on right upper arm.

Regular sizes: S-2XL

	<b>2031</b>	royal/silver grey
	<b>2042</b>	navy/silver grey
	<b>2186</b>	black/silver grey
	<b>2061</b>	silver grey/red
	<b>2064</b>	silver grey/navy

More colours available on request.

Standards:



EN 61340-5-1

3 |



1, 2 and 3 |  
EPA logo on  
right upper arm



**MATERIAL:** 95 % COTTON, 5 % CARBON

**FABRIC WEIGHT:** approx. 160 g/m<sup>2</sup>

**SURFACE RESISTIVITY:** 10<sup>6</sup> to 10<sup>7</sup> Ω (used test climate: 23 (±1) °C room temperature, 25 (±5) % air humidity)

**FIELDS OF APPLICATION:** Electronics manufacturing

CONDUCTEX™

# ▶ CONDUCTEX® Cotton Knit

High Functionality – High Comfort: Polo shirts made of CONDUCTEX® Cotton Knit offer high wearing comfort as they are knitted, not woven. This design allows for very high mobility. Furthermore, the materials are characterised by very good functionality thanks to its carbon file. Available in numerous colours and womens' shirts with female cut.



1 |



1, 2 and 3 |  
EPA logo on right upper arm



2 |

Women's shirts  
with fitted waist

## LADIES POLO SHIRT, SHORT-SLEEVE

ESD

Part number: **08011 86013 001 + COLOUR NO.**

Garment weight: approx. 175 g

Single-coloured • female cut • conductive polo collar • polo placket with buttoning • front pocket on the left with button • double-stitched sleeve opening • stylish shirt length, suitable for wearing on top • embroidered EPA logo on right upper arm.

Regular sizes: XS–L

- 10** white
- 50** silver grey
- 45** navy

More colours available on request.

Standards:



EN 61340-5-1

## LADIES POLO SHIRT, SHORT-SLEEVE

ESD

Part number: **08011 86013 000 + COLOUR NO.**

Garment weight: approx. 180 g

Two-coloured • female cut • conductive polo collar • polo placket with buttoning • front pocket on the left with button • double-stitched sleeve opening • stylish shirt length, suitable for wearing on top • embroidered EPA logo on right upper arm.

Regular sizes: XS–L

- 2031** royal/silver grey
- 2186** black/silver grey

More colours available on request.

Standards:



EN 61340-5-1



### POLO SHIRT, LONG-SLEEVE

ESD

Part number: **08011 86008 000 + COLOUR NO.**

Garment weight: approx. 255 g

Two-coloured • conductive polo collar in contrast colour • polo placket with buttoning • front pocket on the left with button • sleeve opening in contrast colour • stylish shirt length, suitable for wearing on top • embroidered EPA logo on right upper arm.

Regular sizes: S-2XL

- |  |             |                   |
|--|-------------|-------------------|
|  | <b>2031</b> | royal/silver grey |
|  | <b>2042</b> | navy/silver grey  |
|  | <b>2064</b> | silver grey/navy  |

Standards:



EN 61340-5-1

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



**MATERIAL:** 95 % COTTON, 5 % CARBON

**FABRIC WEIGHT:** approx. 160 g/m<sup>2</sup>

**SURFACE RESISTIVITY:** 10<sup>6</sup> to 10<sup>7</sup> Ω (used test climate: 23 (±1) °C room temperature, 25 (±5) % air humidity)

**FIELDS OF APPLICATION:** Electronics manufacturing

**CONDUCTEX<sup>®</sup>**



# ▶ CONDUCTEX® Cotton Knit

Sweatshirt and sweat jacket offer excellent wearing comfort, high-end manufacture and very good ESD functionality. The material is soft and smooth. As it is knitted, not woven, it fits very well and leaves you much freedom of movement.

## SWEATSHIRT

ESD

Part number: **08014 86019 000 50**

Garment weight: approx. 440 g

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

Regular sizes: Unisex S-2XL

■ silver grey

Standards:



EN 61340-5-1



## SWEAT JACKET

ESD

Part number: **08014 86012 001 + COLOUR NO.**

Garment weight: approx. 520 g

■ **50** silver grey

■ **46** black

Part number: **08014 86012 000 2064**

Garment weight: approx. 520 g

■ silver grey/navy

More colours available on request.

Collar, sleeve hems and waistband in contrast colour.

Single-coloured or two-coloured • very smooth and comfortable conductive sweat collar • front with zip fastener • 2 laterally attached pockets • stylish length • comfortable sleeve hems • embroidered EPA logo on right upper arm.

Regular sizes: Unisex S-2XL

Standards:



EN 61340-5-1



**MATERIAL:** 95 % COTTON, 5 % CARBON

**FABRIC WEIGHT:** approx. 300 g/m<sup>2</sup>

**SURFACE RESISTIVITY:** 10<sup>6</sup> to 10<sup>7</sup> Ω (used test climate: 23 (±1) °C room temperature, 25 (±5) % air humidity)

**FIELDS OF APPLICATION:** Electronics manufacturing

CONDUCTEX®

# ▶ CONDUCTEX® Pro Knit

ESD  
ELECTRO-  
STATIC  
DISCHARGE



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.

## POLO SHIRT, SHORT-SLEEVE

ESD

Part number: **08012 86004 002 + COLOUR NO.**

Garment weight: approx. 235 g

Single-coloured • conductive polo collar • polo placket with buttoning • front pocket on the left with buttoning • stylish shirt length, suitable for wearing on top • EPA logo on right upper arm.

Regular sizes: S-2XL

■ **45** navy

■ **50** silver grey

More colours available on request.

Standards:



EN 61340-5-1



1 |

## POLO SHIRT, SHORT-SLEEVE

ESD

Part number: **08012 86004 000 + COLOUR NO.**

Garment weight: approx. 235 g

Two-coloured • conductive polo collar in contrast colour • polo placket with buttoning • front pocket on the left with button • double-stitched sleeve opening in contrast colour • stylish shirt length, suitable for wearing on top • EPA logo on right upper arm.

Regular sizes: S-2XL

■ **2031** royal/silver grey

■ **2064** silver grey/navy

More colours available on request.

Standards:



EN 61340-5-1



2 |

**MATERIAL:** 48 % COTTON, 48 % POLYESTER, 4 % CARBON

**FABRIC WEIGHT:** approx. 170 g/m<sup>2</sup>

**SURFACE RESISTIVITY:** 10<sup>6</sup> to 10<sup>7</sup> Ω (used test climate: 23 (±1) °C room temperature, 25 (±5) % air humidity)

**FIELDS OF APPLICATION:** Electronics manufacturing

CONDUCTEX®

# ▶ CONDUCTEX® Pro Knit

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



EPA logo  
on right upper arm

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

## SWEAT JACKET

ESD

Part number: **08016 86012 005 + COLOUR NO.**

Garment weight: approx. 550 g

Single-coloured • very smooth and comfortable  
conductive sweat collar • front with zip fastener •  
2 laterally attached pockets • stylish length •  
comfortable sleeve hems • EPA logo on right  
upper arm.

Regular sizes: Unisex S-2XL

■ **46** black

■ **45** navy

Standards:



EN 61340-5-1



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

**FABRIC WEIGHT:** approx. 305 g/m<sup>2</sup>

**SURFACE RESISTIVITY:** 10<sup>6</sup> to 10<sup>7</sup> Ω (used test climate: 23 (±1) °C room temperature,  
25 (±5) % air humidity)

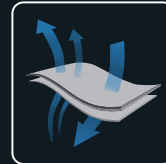
**FIELDS OF APPLICATION:** Electronics manufacturing

CONDUCTEX®



# Naptex® 4.0

Naptex® 4.0 offers reliable protection for electronic components when high surface resistance is required. The material developed by HB is suitable for industrial washing and certified with the Pro Label, withstands many washes and has a very long service life. With Hohenstein breathability label.



ESD  
ELECTRO-  
STATIC  
DISCHARGE



## BLOUSON

ESD

Part number: **08022 18006 001 41**

Garment weight: approx. 425 g

1-coloured • stand-up collar with bevelled collar corner and covered snap fastening • front with covered snap fastening placket • 1 modern spade pocket on left side of chest • 2 side pockets with zip • ergonomically shaped sleeves with dividing seam • sleeves at hem with adjustable covered snap fastening • leasing label at back of collar • EPA badge on the hem.

Regular sizes: 46–58, 94–110

royal

Standards:



EN 61340-5-1



Stand-up collar with  
slanted collar corner



1 |

Side pockets with  
zip fastener

Ergonomically  
shaped arms with  
divided seams

Sleeve hem  
with adjustable  
snap fastener



## TROUSERS

ESD

Part number: **08022 28010 000 41**

Garment weight: approx. 325 g

1-coloured • cut waistband with button closure • slit with zip • perforated elastic with button adjustable in the back • 2 wing pockets • 1 back pocket on the right with flap and covered snap fastener • 1 leg pocket on the right with flap and covered snap fastener, with cell phone pocket inside • embroidered EPA emblem.

Regular sizes: 46–58, 94–110

royal

Standards:



EN 61340-5-1



Adjustable elastic  
band with button  
in the back

2 |

Leg pocket with  
mobile phone  
pocket inside

Embroidered  
EPA emblem



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

**MATERIAL:** 65 % POLYESTER, 33 % COTTON, 2 % METAL

**FABRIC WEIGHT:** approx. 165 g/m<sup>2</sup>

**SURFACE RESISTIVITY:** 10<sup>5</sup> to 10<sup>6</sup> Ω (used test climate: 23 (±1) °C room temperature, 25 (±5) % air humidity)

**FIELDS OF APPLICATION:** Warehouse work within electronics production \*

# Naptex® 4.0

Naptex® 4.0 offers reliable protection for electronic components when high surface resistance is required. The clothing is suitable for industrial washing and certified with the Pro Label. It withstands many washes and has a very long service life. The material has been developed by HB and is especially breathable and certified with the Hohenstein breathability label.

## LADIES COAT, LONG-SLEEVE

ESD

Part number: **08022 48005 018 + COLOUR NO.**

Garment weight: approx. 370 g

Regular sizes: XS-L

## COAT, LONG-SLEEVE

ESD

Part number: **08022 48000 026 + COLOUR NO.**

Garment weight: approx. 380 g

Regular sizes: S-2XL

Single-coloured • cut without side seams • lapel collar • snap fastener closure covered on one side • 1 modern spade pocket on left chest • 2 attached side pockets with slanted openings • hemmed long sleeves • 2 darts on the women's coat • leasing label on the back of the collar • embroidered EPA emblem on the right upper arm.

 **10** white  
 **41** royal

Standards:



EN 61340-5-1



Embroidered  
EPA emblem

1 |



## LADIES COAT, SHORT-SLEEVE

ESD

Part number: **08022 48005 019 + COLOUR NO.**

Garment weight: approx. 335 g

Regular sizes: XS-L

## COAT, SHORT-SLEEVE

ESD

Part number: **08022 48000 027 + COLOUR NO.**

Garment weight: approx. 340 g

Regular sizes: S-2XL

Single-coloured • cut without side seams • lapel collar • snap fastener closure covered on one side • 1 modern spade pocket on left chest • 2 attached side pockets with slanted openings • hemmed long sleeves • 2 darts on the women's coat • leasing label on the back of the collar • embroidered EPA emblem on the right upper arm.

 **10** white  
 **41** royal

Standards:

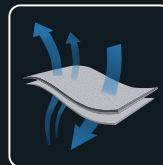


EN 61340-5-1



2 |





### LADIES COAT, LONG-SLEEVE

ESD

Part number: **08022 48005 020 10**

Garment weight: approx. 400 g

Regular sizes: XS-L

### COAT, LONG-SLEEVE

ESD

Part number: **08022 48000 029 10**

Garment weight: approx. 410 g

Regular sizes: S-2XL

Single-coloured • cut without side seams • lapel collar • snap fastener closure covered on one side • 1 modern spade pocket on the left breast side • 2 attached side pockets with slanted openings • cuffs with slit and hidden snap fasteners for adjustment • 2 darts on the women's coat • leasing label on the back in the collar • embroidered EPA emblem on the right upper arm.

☐ white

Standards:



EN 61340-5-1

3 |



Darts on the women's coat

### COAT, WITH KNITTED CUFFS

ESD

Part number: **08022 48000 028 10**

Garment weight: approx. 400 g

Single-coloured • cut without side seams • lapel collar • snap fastener closure covered on one side • 1 modern spade pocket on left chest • 2 attached side pockets with slanting openings • cuffs with knitted cuffs • leasing label in the back of the collar • embroidered EPA emblem on the right upper arm.

Regular sizes: S-2XL

☐ white

Standards:



EN 61340-5-1

4 |



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

**MATERIAL:** 65 % POLYESTER, 33 % COTTON, 2 % METAL

**FABRIC WEIGHT:** approx. 165 g/m<sup>2</sup>

**SURFACE RESISTIVITY:** 10<sup>5</sup> to 10<sup>6</sup> Ω (used test climate: 23 (±1) °C room temperature, 25 (±5) % air humidity)

**FIELDS OF APPLICATION:** Electronics production \*



# HABETEX® ESD Comfort

HABETEX® ESD Comfort is the perfect solution for prevention of both electric charging and high particle release. The fabric combines ESD and cleanroom features. So this is multifunctional clothing for working areas needing both ESD and cleanroom protective properties. Fabric with quality label "breathability" from Hohenstein certifiaproxion institute.



Ventilation on the back

Stand-up collar with slanted collar corner and covered snap fastener

Ergonomic sleeves with stretchy knitted cuffs



## COVERALL, WITH KNITTED CUFFS

ESD/Cleanroom

Part number: **08020 38002 001 10**

Garment weight: approx. 385 g

Single-coloured • stand-up collar with slanted collar corner and covered snap fastener • front with covered 2-way zip fastener • ergonomic sleeves with stretchy knitted cuffs • ventilation on the back • leasing label on the inside in the back • embroidered EPA logo on right upper arm.

Regular sizes: Unisex S-2XL

☐ white

Standards:



EN 61340-5-1





### LADIES COAT, WITH KNITTED CUFFS

ESD/Cleanroom

Part number: **08020 48043 000 10**

Garment weight: approx. 290 g

Single-coloured • stand-up collar with slanted collar corner and covered snap fastener • front with covered snap fastening and darts • 1 straight cut pocket on the front • 2 slant pockets on the sides with slanted corner • ergonomic sleeves with stretchy knitted cuffs • leasing label on the inside in the back • embroidered EPA logo on right upper arm.

Regular sizes: XS–L

☐ white

Standards:



EN 61340-5-1

**MATERIAL:** 98 % POLYESTER, 2 % CARBON

**FABRIC WEIGHT:** approx. 125 g/m<sup>2</sup> • **CHARACTERISTICS:** low weight, breathable

**SURFACE RESISTIVITY:** 10<sup>6</sup> to 10<sup>7</sup> Ω (used test climate: 23 (±1) °C room temperature, 25 (±5) % air humidity)

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



# HABETEX® ESD Comfort & ACCESSORIES ESD

HABETEX® ESD Comfort is the perfect solution for prevention of both electric charging and high particle release.

The fabric combines ESD and cleanroom features. So this is multifunctional clothing for working areas needing both ESD and cleanroom protective properties. Fabric with quality label "breathability" from Hohenstein certifiaproxion institute.

3 |



Stand-up collar  
with slanted corner



## COAT, WITH KNITTED CUFFS

ESD/Cleanroom

Part number: **08020 48042 000 10**

Garment weight: approx. 295g

Single-coloured • stand-up collar with slanted collar corner and covered snap fastener • front with covered snap fastening and darts • 1 straight cut pocket on the front • 2 slant pockets on the sides with slanted corner • ergonomic sleeves with stretchy knitted cuffs • leasing label on the inside in the back • embroidered EPA logo on right upper arm.

Regular sizes: S-2XL

☐ white

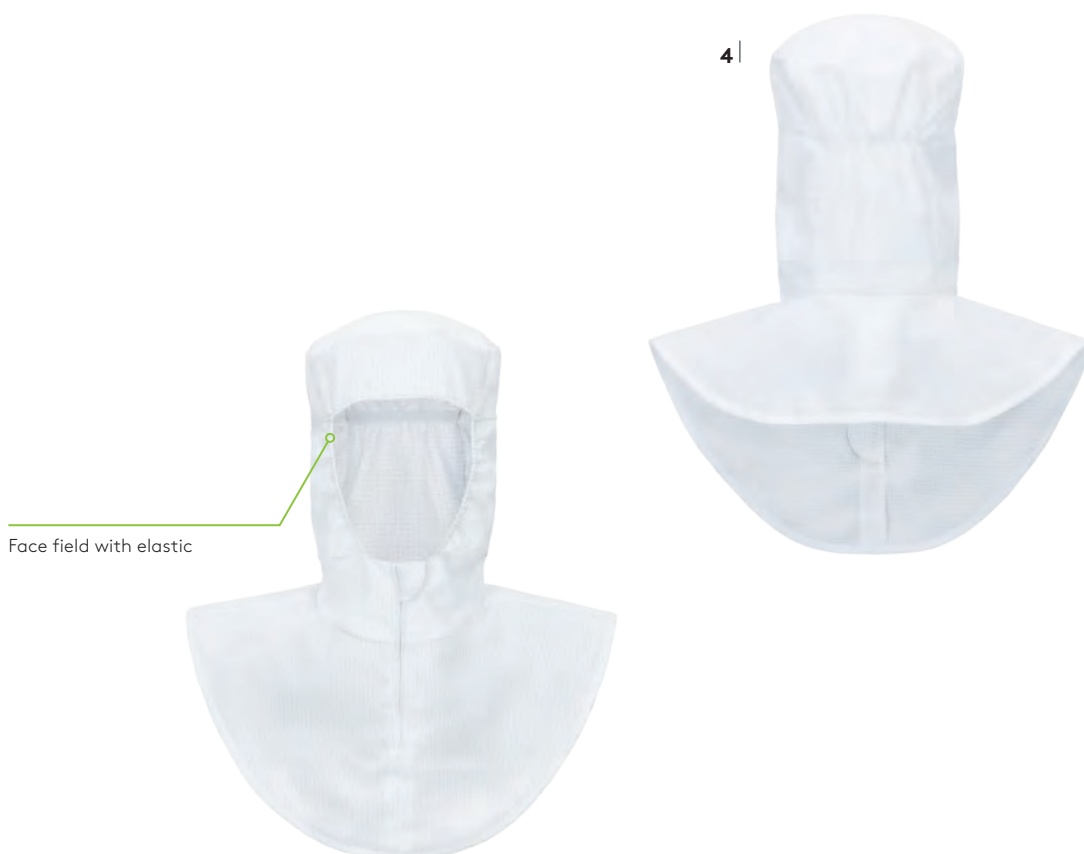
Standards:



EN 61340-5-1







## HEAD COVER

Accessories

Part number: **08020 77004 002 10**

Garment weight: approx. 20 g

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

Sizes: 1/56 to 5/64

☐ white

**MATERIAL:** 98 % POLYESTER, 2 % CARBON

**FABRIC WEIGHT:** approx. 125 g/m<sup>2</sup> • **CHARACTERISTICS:** low weight, breathable

**SURFACE RESISTIVITY:** 10<sup>6</sup> to 10<sup>7</sup> Ω (used test climate: 23 (±1) °C room temperature, 25 (±5) % air humidity)

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

CLEANROOM & DUST

OUR PURITY LAW DOES NOT APPLY TO YOUR BEER.  
BUT IT DOES FOR YOUR COVERALL





Not a grain of dust, not a lint – this is the ideal of a cleanroom. What is not intended in nature is indispensable in paint shops, for example. In the cleanroom, it is the hour of fabrics that secrete as little as possible and also function as filters for particles emitted by the body. A lot of experience and skills are needed to manufacture from these our first-class products.





# HABETEX® climatic Pro

This tried and tested cleanroom fabric offers the perfect combination of particularly high wearing comfort, optimised stability and a very low weight. The manufacture of our fabric HABETEX® climatic Pro is specially adapted to suit the specific requirements of cleanrooms.

## COAT

Cleanroom

Part number: **06015 47010 000 + COLOUR NO.**

Garment weight: approx. 290 g

Single-coloured • band collar • front edge with covered 2-way PVC zip fastener • 1 attached front pocket on the left • 1 inner front pocket on the right • 2 attached side pockets • visually appealing raglan sleeve with PVC snap fasteners for adjustment.

Regular sizes: 46/48–58/60

**47** light blue

**48** dark blue

**53** grey



## COVERALL

Cleanroom

Part number: **06015 37008 000 + COLOUR NO.**

Garment weight: approx. 430 g

**47** light blue

**53** grey

Part number: **06015 37007 000 48**

Garment weight: approx. 430 g

**48** dark blue

Single-coloured • band collar • front with covered 2-way PVC zip fastener • 1 front pocket with aps and PVC snap fastener • 1 hip pocket on the right with flap, no fastener • 1 trowel pocket on the right • waist adjustment via integrated elastic band with drawstring and stoppers • ventilation via cape collar on back • wristband made of bi-elastic material • elastic leg opening.

Regular sizes: 46/48–58/60



**MATERIAL:** 72 % VISCOSE, 28 % POLYESTER • **FABRIC WEIGHT:** approx. 105 g/m<sup>2</sup> •

**CHARACTERISTICS:** particularly high wearing comfort, very low garment weight •

**FIELDS OF APPLICATION:** Automotive industry, paint shop

**HABETEX®**

# HABETEX® Micronplus

A high particle retention and very comfortable material for being a polyester fabric characterise HABETEX® Micronplus, as well as good breathability. Also the manufacture of the coveralls has been specially adapted to suit very high cleanroom requirements.

21<sup>TO</sup>  
WEAR

CLEANROOM  
& DUST



## COVERALL



Cleanroom

Part number: **06008 37001 000 + COLOUR NO.**

Garment weight: approx. 640g

Two-coloured • band collar • covered 2-way PVC zip fastener • 1 inner front pocket on the left • 2 attached front pockets, 1 hip pocket on the right and 1 leg pocket on the left as bellows on side seam with flap and covered hook&loop fastener • 2 side seam pockets • 1 ruler pocket on the right • outer pockets reinforced • waist adjustment via integrated elastic band with drawstring and stoppers • ventilation via cape collar on back and mesh inserts in armpit area • wristbands with vent and hook&loop fastener • leg opening adjustable via PVC snap fasteners.

Regular sizes: 46/48–58/60

 **2033** royal/bugatti blue  
 **2083** anthracite/silver grey



## COVERALL

Cleanroom

Part number: **06008 37012 001 + COLOUR NO.**

Garment weight: approx. 640g

Single-coloured • turn-down collar • covered 2-way PVC zip fastener • 2 attached front pockets and 1 hip pocket, each with flaps and covered hook&loop fastener • 1 inner front pocket on the left • 1 ruler pocket on the right • 2 attached thigh pockets with bellows • 1 leg pocket on the left as bellows on side seam with flap and covered hook&loop fastener • waist adjustment via integrated elastic band with drawstring and stoppers • ventilation via mesh inserts in armpit area • wristbands with vent and hook&loop fastener • leg opening with vent and adjustable via hook&loop fastener.

Regular sizes: 46/48–58/60

 **10** white  
 **53** grey



**MATERIAL:** 98 % POLYESTER, 2 % CARBON • **FABRIC WEIGHT:** approx. 150 g/m<sup>2</sup> •

**CHARACTERISTICS:** fuzz resistant, suited for cleanroom areas with high requirements •

**HIGH PARTICLE RETENTION:** nearly 100 % for particles > 5 µm •

**FIELDS OF APPLICATION:** Automotive industry, paint shop

**HABETEX®**

# HABETEX® Micronselect

Despite its very high density, this cleanroom fabric has a low fabric weight. Thus, HABETEX® Micronselect is very comfortable and offers high water vapour permeability. The manufacture of our fabric HABETEX® Micronselect is specially adapted to suit the specific requirements of cleanrooms.



## COVERALL WITH HOOD

Cleanroom

Part number: **06006 37024 001 41**

Garment weight: approx. 455 g

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

Regular sizes: 46/48–58/60

 royal





### COVERALL WITH HEAD COVER

Cleanroom

Part number: **06006 37032 000 + COLOUR NO.**

Garment weight: approx. 480 g

Single-coloured • integrated cap, adjustable chin area and head width via PVC snap fasteners • field of vision adjustable via elastic band • closure band with covered 2-way PVC zip fastener • 2 inner front pockets with PVC zip fastener • back ventilation via cape collar • raglan sleeves with thumb loop • leg hem with overshoe cap.

Regular sizes: 46/48–58/60

■ **58** anthracite

□ **10** white

■ **41** royal



Leg hem with  
overshoe cap

### COAT

Cleanroom

Part number: **06006 47010 000 10**

Garment weight: approx. 335 g

Single-coloured • standing board • closure band with covered 2-way PVC zip fastener • 1 front pocket on the left • 1 inner front pocket on the right • 2 side pockets • raglan sleeves with PVC snap fasteners for adjustment.

Regular sizes: 46/48–58/60

□ white



**MATERIAL:** 98 % POLYESTER, 2 % CARBON • **FABRIC WEIGHT:** approx. 115 g/m<sup>2</sup> •

**CHARACTERISTICS:** very low fabric weight •

**FIELDS OF APPLICATION:** Automotive industry, paint shop

**HABETEX®**

# ▶ ACCESSORIES CLEANROOM

To complete your cleanroom outfit, we offer functional head protection and gloves. Both are central elements when working in areas that need to be free of dust and fluff.

## HEAD COVER, ELASTIC BAND

Accessories

Part number: **06015 77000 000 47**

Garment weight: approx. 40 g

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

Material: 72 % Viscose, 28 % Polyester

Grammage: approx. 105 g/m<sup>2</sup>

Sizes: 1/56–5/64

■ light blue

1 |



Field of vision with elastic band all round

## VISOR CAP

Accessories

Part number: **06008 77002 000 53**

Garment weight: approx. 35 g

Single-coloured • visor made of reinforced PVC material • 2 lateral separation seams • elastic band centrally on the back • hem reinforced by PES rep ribbon.

Material: 98 % Polyester, 2 % Carbon

Grammage: approx. 150 g/m<sup>2</sup>

Sizes: 1/54–5/6 to 3/60–6/3

■ grey

2 |



## VISOR CAP

Accessories

Part number: **06015 77002 000 53**

Garment weight: approx. 30 g

Single-coloured • visor made of reinforced PVC material • 2 lateral separation seams • elastic band centrally on the back • hem reinforced by PES rep ribbon.

Material: 72 % Viscose, 28 % Polyester

Grammage: approx. 105 g/m<sup>2</sup>

Sizes: 1/54–5/6 to 3/60–6/3

■ grey

3 |



Elastic band centrally on the back



## GLOVES

Accessories

Part number: **08009 76004 000 10**

Garment weight: approx. 20g

Uncoated, with knitted cuffs • Packaging unit: 10 pairs.

Material: Nylon for gloves 100 % Polyamide

Sizes: S-XL

☐ white

4 |



## GLOVES

Accessories

Part number: **08009 76007 000 10**

Garment weight: approx. 25g

Jersey gloves • Packaging unit: 12 pairs/bag.

Material: 100 % Cotton

Sizes: 8-11

☐ white

5 |





# OVERVIEW PRODUCT LINES



	Product Line	Fabric Composition Upper material	Fabric weight (approx. ... g/m <sup>2</sup> )	Retro Reflective	Attachment of emblems & patches		ISO 15797	IEC 61482-2
					Patch	Stitch		
ARC & ENERGY	HB-BodySafe	68 % CV FR, 16 % meta-AR, 13 % MAC, 2 % EL, 1 % Carbon	200					APC 1
	HB-SecureAllround®	75 % CO, 24 % PES, 1 % Carbon, FC-Equipment	350	✓	1)	✓	Dryer	
	HB-ArcSelect®	87 % CO, 12 % PA, 1 % Carbon	280		✓	✓		APC 1
			340 + 265		✓	✓		APC 2
			340 + 280	✓	✓	✓		APC 1/2
	HB-4arc®	89 % CO, 10 % PA, 1 % Carbon	390 + 250		✓	✓	Dryer	APC 2
	HB-PROtection®	55 % MAC, 43 % CO, 2 % Carbon	275 + 175	✓	✓	✓		APC 1/2
		54 % MAC, 44 % CO, 2 % Carbon	195		✓	✓		APC 1
	HB-MODarc®	54 % MAC, 44 % CO, 2 % Carbon	215		✓	✓		APC 1
		48 % PES, 32 % MAC, 18 % CO, 2 % Carbon	215	✓	✓	✓		APC 1
		55 % MAC, 43 % CO, 2 % Carbon	275 + 175		✓	✓		APC 1/2
	HB-MODarc® Reflective Stripes	55 % MAC, 43 % CO, 2 % Carbon	275 + 175	✓	✓	✓		APC 1/2
	HB-MODarc&vis® Polo-Shirt 2397	49 % PES, 30 % MAC, 20 % CO, 1 % Carbon	245					APC 1
	HB-MODarc&vis® Polo-Shirt 2112	54 % MAC, 44 % CO, 2 % Carbon	215					APC 1
	HB-MODarc&vis® Vest FR	55 % MAC, 43 % CO, 2 % Carbon	275					
	HB-MODarc & vis®	55 % MAC, 43 % CO, 2 % Carbon	275 + 175	✓	✓	✓		APC 1/2
	HB-MODarc&vis® Softshelljacket 7kA	31 % PES, 28 % MAC, 20 % AR, 20 % CV FR, 1 % Carbon	540					APC 2
	HB-MODarc&vis® Fleece jacket 4kA	48 % MAC, 32 % CO, 18 % PES, 2 % Carbon	360					APC 1
	HB-MODarc&vis® Fleece jacket	48 % MAC, 32 % CO, 18 % PES, 2 % Carbon	360					
	HB-MODarc&vis® Parka with liner 7kA	55 % MAC, 43 % CO, 2 % Carbon, FC-Equipment	275					APC 2
	HB-MODarc&vis® Parka 7kA	55 % MAC, 43 % CO, 2 % Carbon, PU-Membrane	300					APC 2
	HB-MODarc&vis® Bib trousers 4kA	55 % MAC, 43 % CO, 2 % Carbon, PU-Membrane	300					APC 1
	HB-MultiPro FR® Fleece jacket 4kA	48 % MAC, 32 % CO, 18 % PES, 2 % Carbon	360					
	HB-MultiPro FR® Fleece jacket 7kA	31 % PES, 28 % MAC, 20 % AR, 20 % CV, 1 % Carbon	320					
	HB-MultiPro FR® Parka 7kA	31 % PES, 28 % MAC, 20 % AR, 20 % CV, 1 % Carbon	320					
	HB-MultiPro FR® Brace trousers 7kA	31 % PES, 28 % MAC, 20 % AR, 20 % CV, 1 % Carbon	320					
	NOMEX® Viscose	50 % CV, 49 % AR, 1 % Carbon	260	✓		✓		APC 1
	NOMEX® Comfort	98 % AR, 2 % Carbon	260		✓	✓		APC 1
	INOTEC® Arc & Energy	98 % AR, 2 % Carbon	260 + 180	✓	✓	✓	Dryer	
HEAT, SPLASHES & WELDING	PROBAN®	100 % CO	470		1)	✓		
			380					
			320		✓	✓		
	SECAN® Plus	100 % CO	395		✓	✓	Dryer	
			330		✓	✓		
	SECAN® Securo 420	98 % CO, 2 % Carbon	410		✓	✓		
	HB-Iron Pro	98 % CO, 2 % Carbon	460	✓	✓	✓		APC 1
	HB-4welders® 2.0	89 % CO, 10 % PA, 1 % Carbon	390		✓	✓	Dryer	APC 1
	HB-Welding & Vis	31 % PES, 28 % MAC, 20 % AR, 20 % CV, 1 % Carbon	320	✓	✓	✓	Dryer	APC 1
	MARLAN	50 % CV FR, 30 % WO, 20 % PA	365		✓	✓	Finisher	
	HB-FluidMetal Pro	50 % CO, 39 % MAC, 10 % CV, 1 % Carbon	340	✓	✓	✓	Dryer+	
		52 % CO, 37 % MAC, 10 % CV, 1 % Carbon	430	✓	✓	✓	Finisher	
	VINEX®	85 % Vinylal, 15 % Modal	390		✓	✓		APC 1
			285		✓	✓		
	TEMPEX® TREME HEAT							
	CK-12/Z	70 % Preox, 30 % AR	360					
	AW-1/Y	100 % AR	420					
	KF-3/Z	100 % para-aramide	475					
	CK-4/Z	51 % Glass, 49 % para-aramide	690					
	NOMEX® Comfort light	98 % AR, 2 % Carbon	185		✓	✓		

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



IEC 61482-2	EN ISO 11611	EN ISO 11612	EN 1149-5	EN 13034	EN ISO 20471	EN 17353	EN 343	EN 13758-2	EN 14058	EN 342	EN 61340-5-1	EN 15384	MULTI-RISK	21 TO WEAR®
Class 1	Class 1	A/B1/C1/F1	✓										✓	✓
	Class 1	A/B1/C1/E2/F1	✓	✓									✓	✓
	Class 1	A/B1/C1/E1/F1	✓										✓	✓
	Class 1	A/B1/C1/F1	✓										✓	✓
	Class 1	A1/B1/C1/E2/F1	✓										✓	✓
	Class 2	A/B1/C1/E3/F1	✓										✓	✓
	Class 1	A/B1/C1/F1	✓	Type 6									✓	✓
		A/B1/C1/F1	✓										✓	
		A/B1/C1/F1	✓					✓		Class 1			✓	
	Class 1	A1/B1/C2/F1	✓										✓	
	Class 1	A/B1/C1/F1	✓	Type 6									✓	✓
	Class 1	A/B1/C1/F1	✓	Type 6									✓	✓
		A1/B1/C1/F1	✓		Class 2			✓					✓	✓
		A/B1/C1/F1	✓		Class 2			✓					✓	✓
		A/B1/C1/F1	✓										✓	✓
	Class 1	A/B1/C1/F1	✓	Type 6	Class 3 <sup>2)</sup>								✓	✓
	Class 2 A1	A1/B1/C2/F2	✓		Class 2								✓	✓
		A1/B1/C2/F1	✓		Class 2					Class 1			✓	✓
										Class 1			✓	✓
	Class 1	A/B1/C1/E1/F1	✓	Type PB [6]	Class 2		Cl. 3/3						✓	✓
	Class 1 A1	A1/B1/C1/F1	✓	Type 6	Class 2		Cl. 3/4						✓	✓
	Class 1 A1	A1/B1/C1/F1	✓	Type 6	Class 1		Cl. 3/4						✓	✓
Class 1		A1/B1/C2/F2	✓							Class 1			✓	✓
Class 2		A1/B2/C2/F2	✓							Class 1			✓	✓
	Class 2 A1	A1/B1/C1/E1/F1	✓	Type PB [6]	Class 3								✓	✓
	Class 2 A1	A1/B1/C1/E1/F1	✓	Type PB [6]	Class 2								✓	✓
	Class 1 A1	A1/B1/C1/F1	✓										✓	✓
		A1/B1/C1/F1	✓											
Class 1/2		A1/B1/C1/F1	✓											
	Class 2 A1	A1/B1/C1/E3/F1												
	Class 2 A1	A1/B1/C1/E2/F1												
	Class 1	A1/B1/C1												
	Class 2	A/B1/C1/E2/F1												
	Class 1	A/B1/C1/E2/F1												
	Class 2	A/B1/C1/E3/F1	✓											
	Class 2	A/B1/C1/E3/F1	✓			✓							✓	✓
	Class 2	A/B1/C1/E3/F1	✓										✓	✓
	Class 2 A1	A1/B1/C1/E1/F1	✓	Type PB [6]	Class 3 <sup>2)</sup>								✓	
	Class 1	A1/B1/C1/D3/E3/F1												
Class 1	Class 1 A1	A/B1/C1/D2/E2/F1	✓			✓							✓	
Class 1	Class 2	A/B1/C1/D3/E3/F1	✓			✓							✓	
		A/B1/C1/D3/E2/F1												
		A/B1/C1/D1/E1/F1												
		A1/B1/C3/D3/E3/F1												
		A1/B1/C4/D3/E3/F2												
		A1/B1/C3/D3/E3/F1												
		A1/B1/C3/D3/E3/F2												
		A1/B1/C1/F1	✓											
















# OVERVIEW PRODUCT LINES

	Product Line	Fabric Composition Upper material	Fabric weight (approx. ... g/m <sup>2</sup> )	Retro Reflective	Attachment of emblems & patches		 ISO 15797	 IEC 61482-2
CHEMICALS	HB-CHEMstandard HB-CHEMcomfort antistatic	100 % PAC, FC-Equipment 99 % PES, 1 % Carbon, FC-Equipment	270 240		Patch		Dryer+ Finisher	
						Stitch		
HIVIS & WEATHER	HI-VISION® Basic Reflective Shirts	55 % CO, 45 % PES	185	✓	✓	✓		
	HI-VISION® Basic Fleece	100 % PES	260		✓	✓		
	HI-VISION® Basic Parka Antistatic	99 % PES, 1 % Carbon	150	✓		✓		
	HB-StormBase® Parka+Brace trousers	99 % PES, 1 % Carbon	150	✓				
COLD PROTECTION	TEMPEX® CLASSIC 2.0	100 % PA	515	✓ <sup>3)</sup>		✓		
	TEMPEX® CLASSIC	100 % PA	415	✓ <sup>3)</sup>		✓		
			520	✓ <sup>3)</sup>		✓		
			560	✓ <sup>3)</sup>				
			630	✓ <sup>3)</sup>				
			645					
	TEMPEX® COMFORT	100 % PA	445/545/645	✓ <sup>3)</sup>		✓		
	TEMPEX® CONTOUR	100 % PA	415	✓ <sup>3)</sup>		✓		
	TEMPEX® HYGIENE	100 % PA	415/515			✓		
	TEMPEX® THERMO	100 % PA	265/155/245			✓		
	TEMPEX® THERMO HYGIENE	100 % PA	245					
FIRE & RESCUE SERVICES	Flammgard® Klassik	49 % AR, 50 % CV FR, 1 % Carbon	300		✓	✓		
	Flammgard® Nordrhein-Westfalen	59 % AR, 40 % CV FR, 1 % Carbon	260		✓	✓		
	Flammgard® Baden-Württemberg	59 % AR, 40 % CV FR, 1 % Carbon	260		✓	✓		
	Softshell	94 % PES, 6 % EA	300		✓	✓		
	Fleece	100 % PES	260			✓		
	Flammgard® Saarland	59 % AR, 40 % CV FR, 1 % Carbon	260		✓	✓		
	HB-Technical Rescue Parka	98 % AR, 2 % Carbon	195					
	HB-Technical Rescue Trousers	59 % AR, 40 % CV FR, 1 % Carbon	260					
	HB-Technical Rescue Fleece	48 % MAC, 32 % CO, 75 % PES, 2 % Carbon	360					
	HB-Technical Rescue lite	49 % AR, 50 % CV FR, 1 % Carbon	300	✓	✓	✓		
	HB-Wildfire 2.0	49.5 % CV FR, 49.5 % AR, 2 % Carbon	320	✓	✓	✓		
ESD	CONDUCTEX®	75 % PES, 23 % CO, 2 % Carbon	130		✓	✓		
	CONDUCTEX® Cotton Knit	95 % CO, 5 % Carbon	160		✓	✓		
			300		✓	✓		
			300		✓	✓		
	CONDUCTEX® Pro Knit	48 % CO, 48 % PES, 4 % Carbon	170		✓	✓		
		60 % PES, 33 % CO, 7 % Carbon	305		✓	✓		
	Naptex® 4.0	65 % PES, 33 % CO, je 1 % Metall (Naptex®/Bekinox®)	165					
	HABETEX® ESD Comfort	98 % PES, 2 % Carbon	125		✓	✓		
CLEANROOM	HABETEX® climatic Pro	72 % CV, 28 % PES	105		✓			
	HABETEX® Micronplus	98 % PES, 2 % Carbon	150		✓			
	HABETEX® Micronselect	98 % PES, 2 % Carbon	115		✓			
	HABETEX® Micronknit	100 % PES	190					

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





 IEC 61482-2	 EN ISO 11611	 EN ISO 11612	 EN 1149-5	 EN 13034	 EN ISO 20471	 EN 17353	 EN 343	 EN 13758-2	 EN 14058	 EN 342	 EN 61340-5-1	 EN 15384	 MULTI-RISK	 21 TO WEAR®
			✓	Type 6 Type 6										✓
					Class 2			✓						
			✓ ✓	Class 2			Cl. 3/3 Cl. 3/3							
										✓ ✓ ✓ ✓ ✓ ✓ ✓				
		A/B1/C1 A/B1/C1 A/B1/C1												
		A/B1/C1 A/B1/C1 A/B1/C1					4 4 X							
		A/B1/C1 A/B1/C1/F1										✓		
											✓ ✓ ✓ ✓ ✓ ✓			✓ 4)
														✓ 5)

# ► EMBLEMS AND PATCHES



## HOW YOUR PPE BECOMES YOUR CORPORATE IDENTITY

Your employees' protective clothing is now just as much a part of your company's image as your website or vehicles – it is your company's business card as it conveys expertise and is immediately perceived by your customers. Equipped with company emblems and name badges, it also supports employees' identification with the company and is an important distinguishing feature.

However, to ensure that safety doesn't get left behind and conformity with standards doesn't suffer, a few important points must be noted.

The PPE Regulation, which has been in force since 2018, clearly stipulates that any subsequent changes to PPE that are not in accordance with the respective Type examination certificate will result in the certification becoming null and void. This means that anyone who makes a change of this kind becomes the manufacturer of a new item of PPE, which must undergo recertification.

At HB Protective Wear, we have certified our product lines in such a way that they can be equipped with different emblem variants. Embroidered emblems,

direct embroidery, patched or woven emblems are available in different sizes depending on the product.

We only use materials that have successfully undergone certification so that the certified protective properties of the garments are still guaranteed after finishing. To see which emblem variants are available for your collection, please refer to the overview starting on page 206.








If you would like to attach emblems to your HB Protective Wear garments or those of your customers yourself, please contact us. We will be happy to provide information on what to consider concerning material, size and attachment position when customising your HB collection. This is because only materials and emblem sizes that have been tested in the course of certification may be used, so as not to put the certification and safety of your protective clothing at risk.



### IMPORTANT INFORMATION FOR ATTACHING EMBLEMS AND BADGES:

The implementation of certification-relevant changes to protective clothing – such as the subsequent affixing of emblems – by third parties, which are not carried out in conformity with the manufacturer's specifications, means that the products concerned are no longer covered by the respective Type examination certificate and the certification becomes null and void. Subsequent attachment of any emblems to our protective garments is only possible if they have been certified as part of a Type examination. Therefore we would advise that the finishing of our protective clothing products is carried out by HB as the manufacturer.



STANDARDS	 EN 1149-5 Antistatic protection	 EN 11611 Welding protection	 EN 11612 Heat and flame protection	 EN 61482-2 Arc Flash protection	 EN 20471 High visibility reflective properties	 EN 13034 Type 6 Chemical protection	 EN 342 Cold protection
EMBROIDERED EMBLEMS	Emblems (made from antistatic fabric), accessories and other features with no conductive properties, have to be firmly attached without being able to become detached; it is not allowed to fix them via hook&loop fastening or via snap fasteners.	<b>Manufacture:</b> Background and embroidery yarn is only to be used in certified FR version.  If a background material and/or embroidery yarn not tested by the manufacturer is used, the embroidery emblem must be tested individually.  The stitching of the embroidery emblems must be done with FR yarn			In order to comply with the determined high-visibility protection classes, the manufacturer's instructions regarding the maximum available space for the emblem application must be considered when selecting the emblem sizes.*  At least 5 cm distance to reflective stripes are to be kept.	Free-standing embroidery badges are to be tested on the garment. In addition, same fabric or a comparable material with the same or higher performance class is to be used as background material.  Small embroidery badges that can be attached touching the edges are allowed.	Embroidered emblems can be applied without affecting the thermal insulation specified by the manufacturer.*
	If a background material and/or embroidery yarn not tested by the manufacturer is used, the embroidered emblem must be explicitly tested on the desired materials if the size exceeds 100 cm²!		<b>Manufacture:</b> For the EN standard code E and D 1-3, manufacture in the roof tile effect is always necessary to do.				
DIRECT EMBROIDERIES		<b>Manufacture:</b> The direct embroidery absolutely must be underlaid with a FR material towards the body.  The embroidery yarn is only to be used in certified FR version. If another embroidery thread is used, the direct embroidery must be tested individually.			In order to comply with the determined high-visibility protection classes, the manufacturer's instructions regarding the maximum available space for the emblem application must be considered when selecting the emblem sizes.*  At least 5 cm distance to reflective stripes are to be kept.	The direct embroidery must be underlaid with outer fabric towards the body.  Direct embroideries larger than 20 qcm must be explicitly tested on the garment. Large direct embroideries are generally not recommended.	Direct embroideries are only allowed to be attached for the following product lines: Comfort, Hygiene, Contour and Fleece; they need to be tested depending on the embroidery's size.*
PATCHED EMBLEMS	If a patch emblem not tested by the manufacturer is used, the patch emblem must be explicitly tested on the desired materials if the size exceeds 100 cm²!	<b>Manufacture:</b> Material qualities not shown in our catalogue (see pages 214-217), and marked as certified, must be tested individually in the largest possible size in accordance with EN 15025, ISO 17493 and EN 1149-5 and, if necessary, in accordance with the standard specification code D+E.			In order to comply with the determined high-visibility protection classes, the manufacturer's instructions regarding the maximum available space for the emblem application must be considered when selecting the emblem sizes.*  At least 5 cm distance to reflective stripes are to be kept.	Patch badges up to a size of 320x120 mm are tested and approved by the manufacturer.	Not allowed.
WOVEN EMBLEMS	Web emblems that are not conductive must be firmly attached without being able to become detached.	For woven emblems larger than 10 cm² has to be available a recent test report according to EN 15025.			In order to comply with the determined high-visibility protection classes, the manufacturer's instructions regarding the maximum available space for the emblem application must be considered when selecting the emblem sizes.*  At least 5 cm distance to reflective stripes are to be kept.	Woven badges larger than 20 qcm must be explicitly checked.	Woven emblems can be applied without affecting the thermal insulation specified by the manufacturer.*

\* The details of the maximum available space for the emblem application are shown on our product data sheets for each sales item.  
Please contact our sales representatives for more information (see page 239).

















# 21 TO WEAR®

The following versions will be supplied within our high-speed delivery service 21 TO WEAR®.

First order starting with 1 piece and delivery time approx. 21 days.

No stock-keeping for these products. Requirements of more than 30 pieces will normally be produced separately, the production time then will be approx. 6-8 weeks from receipt of order.







## 21 TO WEAR® FOR LADIES

Item number	Designation	Material	Colour	Weight	Standards	
HB-PROtection   						
01072 10206 006 2177	Ladies jacket 1-ply 4kA	55 % Modacrylic, 43 % Cotton, 2 % Carbon	navy/dark grey	approx. 275 g/m²	IEC 61482-2 APC 1 EN ISO 11612 A1+A2/B1/C1/F1 EN ISO 11611 Class 1 A1+A2 EN 1149-5 EN 13034 Type 6	
01072 20144 010 2175	Ladies trousers 1-ply 4kA		dark grey/navy		EN 13034 Type 6	
01072 10206 008 2177	Ladies jacket 2-ply 7kA/4kA		navy/dark grey  approx. 275 g/m² +approx. 175 g/m²		IEC 61482-2 APC 2 (front parts and sleeves) EN ISO 11612 A1+A2/B1/C1/F1 EN ISO 11611 Class 1 A1+A2 EN 1149-5 EN 13034 Type 6	
01072 10206 007 2177	Ladies jacket 2-ply 7kA				IEC 61482-2 APC 2 EN ISO 11612 A1+A2/B1/C1/F1 EN ISO 11611 Class 1 A1+A2 EN 1149-5 EN 13034 Type 6	
HB-MODarc®    						
01072 10206 002 2251	Ladies blouson 1-ply 4kA	55 % Cotton, 43 % Modacrylic, 2 % Carbon	grey/black	approx. 275 g/m²	IEC 61482-2 APC 1 EN ISO 11612 A1+A2/B1/C1/F1 EN ISO 11611 Class 1 A1+A2 EN 1149-5 EN 13034 Type 6	
01072 20144 006 2188	Ladies trousers 1-ply 4kA		black/grey			
01072 20144 006 2251	Ladies trousers 1-ply 4kA		grey/black			
01072 10206 000 2041	Ladies blouson Reflective Stripes 1-ply 4kA		navy/royal			
01072 10206 000 2251	Ladies blouson Reflective Stripes 1-ply 4kA		grey/black	approx. 275 g/m² +approx. 175 g/m²	IEC 61482-2 APC 2 (front parts and sleeves/front of trouser legs) EN ISO 11612 A1+A2/B1/C1/F1 EN ISO 11611 Class 1 A1+A2 EN 1149-5 EN 13034 Type 6	
01072 20144 000 2188	Ladies trousers Reflective Stripes 1-ply 4kA		black/grey			
01072 20144 002 45	Ladies trousers Reflective Stripes 1-ply 4kA		navy			
01072 10206 001 2041	Ladies blouson Reflective Stripes 2-ply 7kA/4kA		navy/royal			
01072 10206 001 2251	Ladies blouson Reflective Stripes 2-ply 7kA/4kA		grey/black			
01072 20144 001 2188	Ladies trousers Reflective Stripes 2-ply 7kA/4kA		black/grey			
01072 20144 003 45	Ladies trousers Reflective Stripes 2-ply 7kA/4kA		navy			
HB-MODarc&vis®    						
01072 10206 004 2112	Ladies blouson 1-ply 4kA	55 % Modacrylic, 43 % Cotton, 2 % Carbon	fluorescentyellow/ navy	approx. 275 g/m²	EN ISO 20471 Class 1+2* IEC 61482-2 APC 1 EN ISO 11612 A1+A2/B1/C1/F1 EN ISO 11611 Class 1 A1+A2 EN 1149-5 EN 13034 Type 6	
01072 20144 008 2112	Ladies trousers 1-ply 4kA				approx. 275 g/m² +approx. 175 g/m²	EN ISO 20471 Class 1+2* IEC 61482-2 APC 2 (front parts and sleeves/front of trouser legs) EN ISO 11612 A1+A2/B1/C1/F1 EN ISO 11611 Class 1 A1+A2 EN 1149-5 EN 13034 Type 6
01072 10206 005 2112	Ladies blouson 2-ply 7kA/4kA					
01072 20144 009 2112	Ladies trousers 2-ply 7kA/4kA					
* Blouson combined with trousers or bib and brace trousers as suit = Class 3						
HB-4welders® 2.0   						
01237 20144 011 458	Ladies trousers 2-ply 7kA	89 % Cotton, 10 % Polyamide, 1 % Carbon	navy	approx. 390 g/m²	EN ISO 11611 Class 2 A1+A2 EN ISO 11612 A1+A2/B1/C1/E3/F1 EN 1149-5 IEC 61482-2 APC 1	
01237 20144 011 52	Ladies trousers 2-ply 7kA		medium grey			









- For all those who require PPE urgently
- Rapid response to immediate requirements
- Get your employees started straight away
- 100 % HB quality
- Reduces your stock

Please find more information at  
[www.21towear.de](http://www.21towear.de)

Item number	Designation	Material	Colour	Weight	Standards
HB-FluidMetal Pro 340   					
01221 20144 016 2043	Ladies trousers	50 % Cotton, 39 % Modacrylic, 10 % Viscose, 1 % Carbon	navy/medium grey	approx. 340g/m <sup>2</sup>	EN ISO 11611 Class 1 A1+A2 EN ISO 11612 A1+A2/B1/C1/D2/E2/F1 EN 1149-5 IEC 61482-2 Class 1
01221 20144 016 2070			medium grey/pure orange		
HB-FluidMetal Pro 430   					
01218 20144 016 2043	Ladies trousers	52 % Cotton, 37 % Modacrylic, 10 % Viscose, 1 % Carbon	navy/medium grey	approx. 430g/m <sup>2</sup>	EN ISO 11611 Class 2 A1+A2 EN ISO 11612 A1+A2/B1/C1/D3/E3/F1 EN 1149-5 IEC 61482-2 Class 2
01218 20144 016 2070			medium grey/pure orange		

## 21 TO WEAR® FOR MEN

Item number	Designation	Material	Colour	Weight	Standards
HB-ArcSelect® 					
01004 10000 001 2382	Jacket 1-ply 4kA	87% Cotton, 12% Polyamide, 1% Carbon	anthrachite grey/ medium grey	approx. 340g/m²	IEC 61482-2 APC 1 (2-ply: IEC 61482-2 APC 2 (front parts and sleeves/front of trouser legs)) EN ISO 11612 A1+A2/B1/C1/E1/F1 EN ISO 11611 Class 1 A1+A2 EN 1149-5
01004 20000 001 2381	Trousers 1-ply 4kA		medium grey/ anthrachite grey		
01004 50100 001 2381	Bib and brace trousers 1-ply 4kA		anthrachite grey/ medium grey	approx. 340g/m² +approx. 280g/m²	
01004 10000 002 2382	Jacket 2-ply 7kA/4kA		anthrachite grey/ medium grey		
01004 20000 002 2381	Trousers 2-ply 7kA/4kA		medium grey/ anthrachite grey		
01004 50100 002 2381	Bib and brace trousers 2-ply 7kA/4kA		medium grey/ anthrachite grey		
HB-MODarc®   					
01072 10107 034 2188	Blouson 1-ply 4kA	55% Cotton, 43% Modacrylic, 2% Carbon	black/grey	approx. 275g/m²	IEC 61482-2 APC 1 (2-ply: IEC 61482-2 Class 2 (front parts and sleeves)) EN ISO 11612 A1+A2/B1/C1/F1 EN ISO 11611 Class 1 A1+A2 EN 1149-5 EN 13034 Type 6
01072 10107 035 2188	Blouson 2-ply 7kA/4kA			approx. 275g/m² +approx. 175g/m²	
01072 10107 039 2188	Blouson Reflective Stripes 1-ply 4kA			approx. 275g/m²	
01072 10107 038 2188	Blouson Reflective Stripes 2-ply 7kA/4kA		navy	approx. 275g/m² +approx. 175g/m²	
01072 50055 013 45	Bib and brace trousers Reflective Stripes 2-ply 7kA/4kA				
HB-Iron Pro 					
01248 20000 008 3011	Trousers with knee pocket	98% Cotton, 2% Carbon	middle grey/orange/ fluorescent yellow	approx. 420g/m²	EN ISO 11612 A1+A2/B1/C1/E3/F1 EN ISO 11611 Class 2 A1+A2 EN 1149-5 IEC 61482-2 Class 1 EN 17353 Type B2
01248 50100 006 3011	Bib and brace trousers with knee pocket				
HB-welding & Vis 					
01121 1M005 000 2143	Jacket	31% Polyester, 28% Modacrylic, 20% Aramide, 20% Viscose, 1% Carbon	fluorescent yellow/ black blue	approx. 320g/m²	IEC 61482-2 APC 1 EN ISO 11611 Class 2 A1 EN ISO 11612 A1/B1/C1/E1/F1 EN ISO 20471 Class 1 EN 1149-5 EN 13034 Type PB [6]
01121 2M008 000 2143	Trousers				
01121 5M002 000 2143	Bib and brace trousers				

# ▶ TEMPEX®-TREME HEAT

## PRODUCT VARIANTS OF OUR MODULAR HEAT PROTECTION SYSTEM

Here you will find all relevant tables and information concerning our TEMPEX® TREME-Heat modular system. Choose between many different features and product variants. This modular clothing system enables you to put together your own personal heat protection equipment according to your individual requirements at the work place.

The following products will be, in case they are not available on stock, supplied within our high-speed delivery service 21 TO WEAR®. First order starting with 1 piece and delivery time approx. 21 days\*. Requirements of more than 30 pieces will normally be produced separately, the production time then will be approx. 6–8 weeks from receipt of order.

## MATERIAL VARIANTS OF THE MODULAR HEAT PROTECTION SYSTEM

The following table shows the different materials and indicates the material name, the material composition, the material weight and the certified fabric's standards.

Part number	Material name	Material	Material weight	Standards
<b>120xx = 12014</b>	<b>CK-12/Z</b>	70 % Preox, 30 % Aramide	approx. 360 g	EN ISO 11612 A1/B1/C3/D3/E3/F1
<b>120xx = 12008</b>	<b>AW-1/Y</b>	100 % Aramide	approx. 420 g	EN ISO 11612 A1/B1/C4/D3/E3/F2
<b>12003</b>	<b>KF-3/Z</b>	100 % para-aramide	approx. 475 g	EN ISO 11612 A1/B1/C3/D3/E3/F1

## FOUNDRY COAT (see pages 87, 90 and 92)

Product line	Part number	Closure	Ergonomic sleeves	Ventilation	Walking comfort	On stock
<b>1   KF-3/Z</b>	<b>12003 41030 000 15</b>	Hook & loop	–	–	–	✓
	<b>12003 41040 000 15</b>	Hook & loop	–	–	–	21 TO WEAR®
	<b>12003 41030 200 15</b>	Quick release	–	–	–	21 TO WEAR®
	<b>12003 41040 200 15</b>	Quick release	–	–	–	21 TO WEAR®
<b>2   COMFORT CK-12/Z AW-1/Y</b>	<b>12014 41130 001 15</b>	Hook & loop	✓	–	Slit	✓
	<b>12008 41130 001 15</b>	Hook & loop	✓	–	Slit	✓
	<b>120xx 41yyy 001 15</b>	Hook & loop	✓	–	Slit	21 TO WEAR®
	<b>120xx 41yyy 101 15</b>	Snap fastening	✓	–	Slit	21 TO WEAR®
<b>3   COMFORT Plus CK-12/Z AW-1/Y</b>	<b>120xx 41yyy 011 15</b>	Hook & loop	✓	Sleeves	Slit	21 TO WEAR®
	<b>120xx 41yyy 012 15</b>	Hook & loop	✓	Sleeves	Pleat	21 TO WEAR®
	<b>120xx 41yyy 111 15</b>	Snap fastening	✓	Sleeves	Slit	21 TO WEAR®
	<b>120xx 41yyy 112 15</b>	Snap fastening	✓	Sleeves	Pleat	21 TO WEAR®
	<b>12014 41130 021 15</b>	Hook & loop	✓	Sleeves + Back	Slit	✓
	<b>12008 41130 021 15</b>	Hook & loop	✓	Sleeves + Back	Slit	✓
	<b>120xx 41yyy 021 15</b>	Hook & loop	✓	Sleeves + Back	Slit	21 TO WEAR®
	<b>120xx 41yyy 022 15</b>	Hook & loop	✓	Sleeves + Back	Pleat	21 TO WEAR®
	<b>120xx 41yyy 121 15</b>	Snap fastening	✓	Sleeves + Back	Slit	21 TO WEAR®
	<b>120xx 41yyy 122 15</b>	Snap fastening	✓	Sleeves + Back	Pleat	21 TO WEAR®

### Length variants 1 |

Part number	Length of the back
<b>41030</b>	130 cm
<b>41040</b>	140 cm

### Length variants 2 | COMFORT + 3 | COMFORT Plus

Part number	Length of the back
<b>41yyy = 41110</b>	110 cm
<b>41yyy = 41120</b>	120 cm
<b>41yyy = 41130</b>	130 cm
<b>41yyy = 41140</b>	140 cm

### Order example:

If you like to order the COMFORT Plus foundry coat 70 % Preox, 30 % Aramide, length 130 cm, covered snap fastening, arm and back ventilation and walking pleat, the result will be the following part number:

**12014 41130 122 15**

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



# MODULAR SYSTEM

**21 TO WEAR**

**HB  
PROTECTIVE  
WEAR**



## JACKET (see pages 86, 89 and 92)

Product line	Part number	Closure	Ergonomic sleeves	Ventilation	On stock
1   KF-3/Z	12003 11080 000 15	Hook&loop	–	–	✓
	12003 110yy 000 15	Hook&loop	–	–	21 TO WEAR®
	12003 110yy 200 15	Quick release	–	–	21 TO WEAR®
2   COMFORT CK-12/Z AW-1/Y	12008 11180 000 15	Hook&loop	✓	–	✓
	120xx 111yy 000 15	Hook&loop	✓	–	21 TO WEAR®
	120xx 111yy 100 15	Snap fastening	✓	–	21 TO WEAR®
3   COMFORT Plus CK-12/Z AW-1/Y	120xx 111yy 010 15	Hook&loop	✓	Sleeves	21 TO WEAR®
	120xx 111yy 110 15	Snap fastening	✓	Sleeves	21 TO WEAR®
	12014 11180 020 15	Hook&loop	✓	Sleeves + Back	✓
	120xx 111yy 020 15	Hook&loop	✓	Sleeves + Back	21 TO WEAR®
	120xx 111yy 120 15	Snap fastening	✓	Sleeves + Back	21 TO WEAR®

### Length variants 1 |

Part number	Length of the back
110yy = 11080	80 cm
110yy = 11090	90 cm
110yy = 11000	100 cm

### Length variants 2 | COMFORT + 3 | COMFORT Plus

Part number	Length of the back
111yy = 11180	80 cm
111yy = 11190	90 cm
111yy = 11100	100 cm

### Order example:

If you like to order the COMFORT Plus heat protection jacket 100 % Aramide, 90 cm length, with hook&loop fastener and ventilations under the arms and on the back, the result will be the following part number: **12008 11190 020 15**

## APRON WITH SLEEVES (see pages 87 and 91)

Product line	Part number	Length	Closure	On stock
1   KF-3/Z	12003 71130 000 15	130 cm	Brass chain	✓
2   COMFORT CK-12/Z AW-1/Y	12008 71110 000 15	110 cm	Hook&loop	21 TO WEAR®
	12008 71130 000 15	130 cm	Hook&loop	✓
	12014 71110 000 15	110 cm	Hook&loop	21 TO WEAR®
	12014 71130 000 15	130 cm	Hook&loop	21 TO WEAR®

## BIB APRON (see pages 88 and 91)

Product line	Part number	Length	Closure	On stock
1   KF-3/Z	12003 71131 000 15	130 cm	Tie trap	✓
2   COMFORT CK-12/Z AW-1/Y	12008 71111 000 15	110 cm	Hook&loop	21 TO WEAR®
	12008 71131 000 15	130 cm	Hook&loop	✓
	12014 71111 000 15	110 cm	Hook&loop	21 TO WEAR®
	12014 71131 000 15	130 cm	Hook&loop	21 TO WEAR®

## HALF APRON (see page 88)

Product line	Part number	Length	Closure	On stock
1   KF-3/Z	12003 71100 000 15	100 cm	Tie trap	✓
2   COMFORT CK-12/Z AW-1/Y	12008 71080 000 15	80 cm	Hook&loop	21 TO WEAR®
	12008 71100 000 15	100 cm	Hook&loop	21 TO WEAR®
	12014 71080 000 15	80 cm	Hook&loop	21 TO WEAR®
	12014 71100 000 15	100 cm	Hook&loop	21 TO WEAR®

## HEAD PROTECTION (see pages 93 and 94)

Product line	Part number	Designation	Ventilation	On stock
1   KF-3/Z	12003 7H007 000 15	Protective hood with shoulder and chest protection	–	✓
	12003 7H007 001 15	Protective hood	–	✓
	12003 7H009 000 15	Helmet cover	–	✓
2   COMFORT CK-12/Z AW-1/Y	12008 71001 000 15	Protective hood with shoulder and chest protection	–	21 TO WEAR®
	12014 71001 000 15	Protective hood with shoulder and chest protection	–	21 TO WEAR®
	12008 71001 001 15	Protective hood	–	21 TO WEAR®
	12014 71001 001 15	Protective hood	–	21 TO WEAR®
	12008 71002 000 15	Helmet cover	–	21 TO WEAR®
	12014 71002 000 15	Helmet cover	–	21 TO WEAR®
3   COMFORT Plus CK-12/Z AW-1/Y	12008 71001 002 15	Protective hood with shoulder and chest protection	✓	✓
	12014 71001 002 15	Protective hood with shoulder and chest protection	✓	21 TO WEAR®

# ▶ READY TO WEAR



## ONE SYSTEM, MORE THAN 1,000 POSSIBILITIES.

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

that corresponds to your corporate company colours.

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

	THREE OPTIONS				PART	COLOURS						
	REFLEC-TIVE STRIPES	KNEE POCKETS	2ND COMBAT POCKET	OR 1 RULER POCKET		BLACK	MEDIUM GREY	DARK BLUE	ROYAL NAVY	RED	YELLOW	
JACKET	<input type="checkbox"/>				YOKE	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
					TORSO/ARMS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
					PIPES	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
TROUSERS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	OR <input type="checkbox"/>	LEGS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
					POCKET PLEAT	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
					PIPES	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
BIB AND BRACE TROUSERS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	OR <input type="checkbox"/>	LEGS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
					POCKET PLEAT	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
					PIPES	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
COVERALL	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	OR <input type="checkbox"/>	TORSO/ARMS/LEGS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
					YOKE + POCKET PLEAT	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
					PIPES	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

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

\*\* Up to a maximum of 60 units. Delivery times for larger quantities are available on request.



Optional:  
Reflective stripes



Optional:  
Second combat pocket

## USE OUR READY TO WEAR CONFIGURATOR TO DESIGN YOUR OWN PROTECTIVE CLOTHING!

Come and try online for yourself at:  
[www.hb-ready-to-wear.com](http://www.hb-ready-to-wear.com)





# INSULATION VALUES

## INSULATION VALUES COLD PROTECTION

This table shows the performance levels of our TEMPEX® cold protective wear. It shows the duration of use for the relevant clothing in relation to temperature and physical strain. The performance levels are light duty (more static works) and medium duty (works where you move more). The specified values are achieved only if jacket and trousers of the same material construction are worn.



	Part Number	Part	Insulation value / $\frac{\text{m}^2 \cdot \text{K}}{\text{W}}$ R-value	Standing activity 75 W/m <sup>2</sup>				Activity with low movement 115 W/m <sup>2</sup>				Activity with regular movement 170 W/m <sup>2</sup>			
				Air speeds				Air speeds				Air speeds			
				0,4 m/s		3 m/s		0,4 m/s		3 m/s		0,4 m/s		3 m/s	
				8 h	1 h	8 h	1 h	8 h	1 h	8 h	1 h	8 h	1 h	8 h	1 h
CLASSIC 2.0	01174 1K014 000	Jacket order picker	0,428 (B) AP 2 x	3°C	-16°C	10°C	-6°C	-13°C	33°C	-3°C	-20°C	-34°C	-49°C	-20°C	-38°C
	01174 2K012 000	Trousers order picker	0,428 (B) AP 2 x	3°C	-16°C	10°C	-6°C	-13°C	33°C	-3°C	-20°C	-34°C	-49°C	-20°C	-38°C
	01174 1K037 000	Ladies' jacket order picker	0,428 (B) AP 2 x	3°C	-16°C	10°C	-6°C	-13°C	33°C	-3°C	-20°C	-34°C	-49°C	-20°C	-38°C
	01174 2K017 000	Ladies' trousers order picker	0,428 (B) AP 2 x	3°C	-16°C	10°C	-6°C	-13°C	33°C	-3°C	-20°C	-34°C	-49°C	-20°C	-38°C
CLASSIC	09044 1K048 000	Jacket	0,339 (B) AP 2 x	8°C	-10°C	16°C	1°C	-5°C	-22°C	4°C	-11°C	-22°C	-41°C	-10°	-26°C
	09044 2K024 000	Trousers	0,339 (B) AP 2 x	8°C	-10°C	16°C	1°C	-5°C	-22°C	4°C	-11°C	-22°C	-41°C	-10°	-26°C
	09044 1K049 000	Ladies' jacket	0,339 (B) AP 2 x	8°C	-10°C	16°C	1°C	-5°C	-22°C	4°C	-11°C	-22°C	-41°C	-10°	-26°C
	09044 2K001 002	Ladies' trousers	0,339 (B) AP 2 x	8°C	-10°C	16°C	1°C	-5°C	-22°C	4°C	-11°C	-22°C	-41°C	-10°	-26°C
	09028 1K009 000	Jacket order picker with acrylic fur lining	0,344 (B) AP 2 x	8°C	-7°C	15°C	1°C	-5°C	-22°C	3°C	-11°C	-23°C	-42°C	-11°C	-27°C
	09028 2K006 000	Trousers order picker with acrylic fur lining	0,344 (B) AP 2 x	8°C	-7°C	15°C	1°C	-5°C	-22°C	3°C	-11°C	-23°C	-42°C	-11°C	-27°C
	09045 1K000 000	Jacket order picker	0,448 (B) AP 2 x	1°C	-18°C	9°C	-7°C	-15°C	-35°C	-4°C	-22°C	-37°C	-49°C	-22°C	-40°C
	09045 2K000 000	Trousers order picker	0,448 (B) AP 2 x	1°C	-18°C	9°C	-7°C	-15°C	-35°C	-4°C	-22°C	-37°C	-49°C	-22°C	-40°C
	09045 1K001 000	Ladies' jacket order picker	0,448 (B) AP 2 x	1°C	-18°C	9°C	-7°C	-15°C	-35°C	-4°C	-22°C	-37°C	-49°C	-22°C	-40°C
	09045 2K001 000	Ladies' trousers order picker	0,448 (B) AP 2 x	1°C	-18°C	9°C	-7°C	-15°C	-35°C	-4°C	-22°C	-37°C	-49°C	-22°C	-40°C
	09045 3K000 000	Coverall order picker	0,411 (B) AP 2 x	4°C	-14°C	11°C	-5°C	-11°C	-31°C	-2°C	-18°C	-32°C	-49°C	-18°C	-36°C
	09045 4K000 000	Coat visitor	0,292 (R) AP 2 x	11°C	-2°C	18°C	5°C	0°C	-16°C	7°C	-6°C	-16°C	-33°C	-5°C	-20°C
	09046 1K012 001	Jacket forklift driver	0,404 (B) AP 2 x	5°C	-12°C	13°C	-3°C	-9°C	-28°C	0°C	-16°C	-29°C	-49°C	-16°C	-33°C
	09046 2K007 001	Trousers forklift driver	0,404 (B) AP 2 x	5°C	-12°C	13°C	-3°C	-9°C	-28°C	0°C	-16°C	-29°C	-49°C	-16°C	-33°C
	09046 1K012 000	Jacket forklift driver Plus	0,398 (B) AP 2 x	5°C	-12°C	13°C	-3°C	-9°C	-28°C	0°C	-16°C	-29°C	-49°C	-16°C	-33°C
	09046 2K007 000	Trousers forklift driver Plus	0,398 (B) AP 2 x	5°C	-12°C	13°C	-3°C	-9°C	-28°C	0°C	-16°C	-29°C	-49°C	-16°C	-33°C
COMFORT	01183 1K007 002	Jacket	0,391 (B) AP 2 x	5°C	-12°C	13°C	-3°C	-9°C	-28°C	0°C	-16°C	-29°C	-49°C	-16°C	-33°C
	01183 2K008 006	Trousers	0,391 (B) AP 2 x	5°C	-12°C	13°C	-3°C	-9°C	-28°C	0°C	-16°C	-29°C	-49°C	-16°C	-33°C
	01183 1K008 001	Ladies' jacket	0,391 (B) AP 2 x	5°C	-12°C	13°C	-3°C	-9°C	-28°C	0°C	-16°C	-29°C	-49°C	-16°C	-33°C
	01183 2K003 003	Ladies' trousers	0,391 (B) AP 2 x	5°C	-12°C	13°C	-3°C	-9°C	-28°C	0°C	-16°C	-29°C	-49°C	-16°C	-33°C
	01183 1K005 000	Jacket order picker	0,435 (B) AP 2 x	2°C	-16°C	10°C	-6°C	-14°C	-34°C	-3°C	-21°C	-35°C	-49°C	-21°C	-39°C
	01183 2K002 000	Trousers order picker	0,435 (B) AP 2 x	2°C	-16°C	10°C	-6°C	-14°C	-34°C	-3°C	-21°C	-35°C	-49°C	-21°C	-39°C
	01183 1K006 000	Ladies' jacket order picker	0,435 (B) AP 2 x	2°C	-16°C	10°C	-6°C	-14°C	-34°C	-3°C	-21°C	-35°C	-49°C	-21°C	-39°C
	01183 2K003 000	Ladies' trousers order picker	0,435 (B) AP 2 x	2°C	-16°C	10°C	-6°C	-14°C	-34°C	-3°C	-21°C	-35°C	-49°C	-21°C	-39°C
	01183 3K001 000	Coverall order picker	0,443 (B) AP 2 x	2°C	-17°C	9°C	-7°C	-14°C	-35°C	-4°C	-21°C	-36°C	-49°C	-21°C	-40°C
	01183 4K001 000	Coat visitor	0,274 (B) AP 2 x	12°C	-1°C	19°C	6°C	2°C	-13°C	8°C	-4°C	-13°C	-30°C	-3°C	-17°C
	01183 1K013 000	Jacket forklift driver	0,508 (B) AP 2 x	-3°C	-23°C	5°C	-12°C	-21°C	-42°C	-9°C	-27°C	-45°C	-49°C	-28°C	-48°C
	01183 2K010 000	Trousers forklift driver	0,508 (B) AP 2 x	-3°C	-23°C	5°C	-12°C	-21°C	-42°C	-9°C	-27°C	-45°C	-49°C	-28°C	-48°C
	01183 1K018 000	Jacket forklift driver Plus	0,511 (B) AP 2 x	-3°C	-23°C	5°C	-12°C	-21°C	-42°C	-9°C	-28°C	-45°C	-49°C	-29°C	-48°C
	01183 2K010 000	Trousers forklift driver	0,511 (B) AP 2 x	-3°C	-23°C	5°C	-12°C	-21°C	-42°C	-9°C	-28°C	-45°C	-49°C	-29°C	-48°C
HYGIENE	01174 1K007 001	Jacket	0,371 (B) AP 2 x	6°C	-10°C	14°C	-2°C	-7°C	-26°C	1°C	-14°C	-26°C	-46°C	-14°C	-30°C
	01174 2K008 005	Trousers	0,371 (B) AP 2 x	6°C	-10°C	14°C	-2°C	-7°C	-26°C	1°C	-14°C	-26°C	-46°C	-14°C	-30°C
	01174 1K005 001	Jacket order picker	0,417 (B) AP 2 x	3°C	-15°C	11°C	-5°C	-12°C	-31°C	-2°C	-19°C	-33°C	-49°C	-19°C	-36°C
	01174 2K008 003	Trousers order picker	0,417 (B) AP 2 x	3°C	-15°C	11°C	-5°C	-12°C	-31°C	-2°C	-19°C	-33°C	-49°C	-19°C	-36°C
	01174 4K001 001	Coat visitor	0,267 (R) AP 2 x	13°C	0°C	19°C	7°C	3°C	-12°C	9°C	-3°C	-12°C	-28°C	-2°C	-16°C

If a cold protection suit is selected from this table for a specific workplace, it must be ensured that the hand and foot coverings also has sufficiently high heat insulation for the ambient temperature that is present and that the face and head are properly protected. The specified values are achieved only if a jacket and trousers of the same construction are worn. The heat insulation may be converted into clo: 1 clo = 0,155 m<sup>2</sup>K/W.

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



# STANDARDS



## IEC 61482-2

IEC 61482-2:2009 (preceding standards: EN 61482-1-2 and ENV 50354)

### Protective clothing against the thermal hazards of an electric arc

This Type of protective clothing is intended to protect the wearer against thermal effects of a defined electric fault arc according to the tested protection level e.g. protection class.

The Standard defines general requirements and requires an electric arc flash test. The material and garments tests are carried out either according to IEC 61482-1-1 (determination of the ATPV value) or IEC 6148-1-2 ("Box-Text"; preceding standard EN 61481-2). The tested protective clothing does not replace electrically insulating protective clothing such as clothing in accordance with EN 50286:1999, "Electrically insulating protective clothing for work on low-voltage installations". Complete personal protection also requires suitable protective equipment such as safety helmet/visor, protective gloves etc.



## EN 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 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 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 13034 Type 6

### Protective clothing against liquid chemicals - Performance requirements for chemical protective clothing offering limited protective

#### performance against liquid chemicals

This standard specifies the minimum requirements to be met by protective clothing against chemicals offering limited protective effect, including reusable protective clothing. Protective clothing against chemicals offering limited protective effect is for use where there is a possibility of exposure to minor chemical spraying, liquid aerosols or low-pressure spattering.



## EN 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 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 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 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 1149-5

(preceding standard: EN 1149-5)

### Electrostatic properties - Material performance and design requirements

This standard specifies the requirements to be met by the materials used in and the design of electrostatically conductive protective clothing forming part of a fully earthed system to avoid ignitable discharge. The antistatic function is defined as minimising the risk of flammable discharge (explosion). The requirements may not be sufficient in a combustible atmosphere



## EN 17353

### Protective Wear - Equipment for enhanced visibility in medium risk situations

This standard specifies the requirements for enhanced visibility equipment for clothing and products capable of visually signalling the presence of the wearer. Enhanced visibility equipment is intended to provide conspicuity to the wearer's presence in medium risk situations in all daylight conditions and/or when illuminated by vehicle headlights or searchlights in the dark. Performance requirements are included for colour



## EN 342

### Protective clothing - Ensembles and garments for protection against cold.

This standard defines the test methods and performance requirements for protective clothing against cold of -5 °C or lower. It tests the thermal insulation and air permeability of the clothing. The test result states how long the wearer of the protective clothing can remain at certain temperatures when stationary or when performing tasks involving small or moderate amounts of movement. Insulation values TEMPEX® Cold Protection: Please note our insulation values table for our TEMPEX® cold protective clothing on page 217. It shows the duration of use of the relevant garments in relation to physical performance and temperature.



#### EN 511 Gloves as protection in cold environments

This standard defines the test methods and performance requirements for gloves used as protection in cold environments. It measures the insulation performance of the material in the event of contact with a cold object, resistance to the gradual permeation of cold, and thermal resistance in the event of direct contact with a cold object. The 3-digit code next to the standard pictogram indicates the performance levels, where 0 is the weakest and 4 is the best performance. The water resistance is defined with two performance levels: 0 = water permeation after 30 minutes, 1 = no water permeation after 30 minutes.



#### EN 15384 Protective clothing for the fire brigade for wildland firefighting

This European Standard specifies methods of test and minimum performance requirements for protective clothing, designed to protect the wearer's body, except the head, hands and feet, to be worn in wildland firefighting and associated activities. This clothing is not intended to provide protection during fire entrapment.



#### EN 407 Gloves as protection against thermal risks

Gloves tested in accordance with this standard provide protection against heat and/or flames. The standard provides six testing options: combustion behaviour, contact heat, convective heat, radiant heat, small splashes of molten metal and larger quantities of molten metal. The actual level of protection depends on which test is carried out during certification and which performance level is achieved, where 1 is the lowest and 4 is the highest. "X" means not tested, "0" means below the minimum requirement.



#### EN 388 Gloves as protection against mechanical risks

This standard defines the test methods and performance requirements for gloves used as protection against mechanical risks. It provides four testing options: abrasion resistance, cut resistance, tear propagation force and penetration force. The actual level of protection depends on which test is carried out during certification and which performance level is achieved, where 1 is the lowest and 4 (resp. 5) is the highest. "X" means not tested, "0" means below the minimum requirement.



#### EN ISO 20345 Personal protective equipment – safety footwear

This standard defines basic requirements and voluntary additional requirements for safety footwear for general purposes such as mechanical risks, slip resistance, thermal risks and ergonomic features. The letters SB and S1 to S5 indicate the requirements that have been met.



#### EN 166 Personal eye protection

This standard defines functional requirements for different Types of personal eye protection equipment and includes basic requirements for all eye protection equipment such as the size of the minimum field of view, flammability, UV resistance or protection against dust, splashes of molten metal and electric arcs. This standard applies to all Types of personal eye protection equipment for protection against a range of hazards encountered in industry or in laboratories.

#### EN 171 Personal eye protection/infrared protective filter

This standard defines protection levels and transmission requirements for infrared protective filters. The filters defined in this standard are not suitable for the (in)direct observation of electric arcs.



#### EN 397 Industrial hard hats

Industrial hard hats are primarily intended to protect the wearer against falling objects and their consequences, such as brain injuries and skull fractures. This European standard defines general requirements, test methods and test conditions as well as requirements pertaining to the protective function (e.g. shock absorption and penetration resistance) of industrial hard hats.

#### EN 50365 Electrically insulating helmets for use on low voltage installations


This standard defines the requirements for electrically insulating helmets for protection when working on or near parts under alternating voltage of up to 1000 V (AC) or direct voltage up to 1500 V (DC). If it is used in combination with other electrically insulating PPE, the helmet should prevent dangerous electric current passing through the head as well as electric shocks. All helmets must also meet the requirements according to EN 397.

#### EN 13688 Hupf 2 Manufacturing and testing description for universal protective clothing for firemen (Part 2 – Firemen's trousers)

Hupf 2 specifies the minimum requirements to achieve sufficient basic protection for all firemen to protect them against general risks of firefighting service. It applies to the firemen's protective clothing described therein and contains a revision of safety requirements based on the current EN ISO 11612:2013 with regard to materials, sizes, design and marking, as well as adapted test methods.

The firemen trousers shall comply with the applicable EN ISO 11612 "Protective clothing - Clothing for protection against heat and flame", the applicable EN ISO 13688 "Protective clothing, General requirements" and this "Manufacturing and testing description for a universal protective clothing for firemen (HuPF)". The protective clothing for firemen is intended to protect the wearer from the hazards of firefighting activities together with the other personal protective equipment required in each case.

All products pictured in this catalogue are certified according to the product specified standards.

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

# ▶ SIZES AND CARE

## MEN

Unisex	3XS, 2XS, XS		S		M		L		XL		2 XL		3 XL		4 XL	
Regular sizes	40	42	44	46	48	50	52	54	56	58	60	62	64	66	68	70
Long	86	88	90	94	98	102	106	110	114	118	122	126	130	134	138	142
Short	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35
Double sizes	38/40	42/44		46/48		50/52		54/56		58/60		62/64		66/68		70/72
Collar sizes	35/36		37/38		39/40		41/42		43/44		45/46		47/48		49/50 bis 59/60	

## WOMEN

Unisex	3XS	2XS	XS		S		M		L		XL		2XL		3XL	4XL
Single sizes	30	32	34	36	38	40	42	44	46	48	50	52	54	56	58	60
Long	72	76	80	84	88	92	96	100	104	108						
Short	18	19	20	21	22	23	24	25	26	27						
Double sizes	28/30	32/34		36/38		40/42		44/46		48/50		52/54		56/58		

## VEST

Vest		1	2	3	4											
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## UNDERWEAR

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

## HEADGEAR

Head cover Cleanroom	0/54	1/56	2/58	3/60	4/62	5/64	6/66	7/68	8/70							
Visor cap Cleanroom	1/54-56		2/57-59	3/60-63												

## BELTS

Belt length	90	100	110	120	130	140	150									
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## GLOVES

Gloves Cold Protection	6	7	8	9	10	11	12									
Gloves Heat Protection						11										

## SOCKS, SHOES&BOOTS

Socks		37/38		39/40		41/42		43/44		45/46		47/48				
Shoes/Gaiters	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	

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

- ☒ Sizes available from stock.
- ☐ Sizes produced after receipt of order; usually not on stock. Please contact our sales staff for more information.



The 21 TO WEAR® icon indicates products which are available via our high-speed delivery service 21 TO WEAR® within 21 days. Please find more information at [www.21towear.com](http://www.21towear.com)

## CUSTOMISED SIZES

HB Protective Wear offers a comprehensive selection of sizes for its collections. However, if you or your staff members require a customised size not included in the stated sizes, we will be pleased to manufacture such garment to your stated body dimensions.





## WASHING

The numbers stated in the wash tub correspond to the maximum washing temperatures and must not be exceeded. The single bar below the wash tub requires mild treatment with reduced washing amount and low speed during spin-drying. The double bar means very mild treatment with reduced mechanical load (e.g. wool).



## BLEACHING



## TUMBLE DRYING

The points state the drying level in the tumble dryer.



## IRONING

The points state the temperature ranges of adjustable irons.



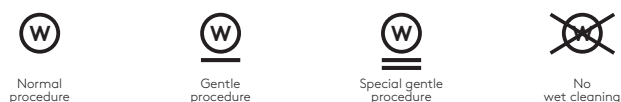
## PROFESSIONAL DRY CLEANING

The letters are intended for the textile care person. They state the applicable solvents. The bar below the circle requires limitation of mechanical load, moisture addition and/or temperature when cleaning.



## PROFESSIONAL WET CLEANING

This symbol identifies articles that can be treated by wet cleaning procedures. It is stated in the second line below the symbol for dry cleaning. The bars below the circle require limitation of mechanical load during wet cleaning. The double bar identifies an even milder procedure.



## NOTE ON FLEECE MATERIAL

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

## NOTE ON FLUORESCENT COLOURS

Fluorescent colours which are constantly exposed to UV radiation will fade more quickly. High-visibility clothing should therefore not be stored in direct sunlight.

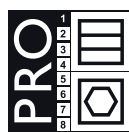
## NOTE ON TEMPEX® COLD PROTECTION GARMENTS

In order for you to be able to take advantage of your high-quality protective equipment for as long as possible, it is important to keep the following instructions in mind.



- Please hang up the clothing after each use and dry it in a sufficiently heated and well-ventilated room.
- Avoid pressing the garments during storage – e.g. in narrow lockers.
- Never hang or lay the clothing onto hot heat sources.
- The garments should never be exposed to temperatures above +50 °C.
- We absolutely recommend regular professional cleaning or washing according to the instructions on the label of the garment.

## THE PRO LABEL: GARMENTS SUITED FOR INDUSTRIAL LAUNDRY



HB products with this label are suitable for industrial laundry and meet the requirements of ISO 15797 for washing and drying processes in industrial laundry. Only textiles that are resistant to the conditions of these care procedures can be labelled with a care symbol for industrial laundry.

Drying symbols:

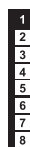


Suitable for tunnel finisher according to drying process B ISO 15797



Suitable for drum drying (tumbler) according to drying process A ISO 15797.

Washing symbol:



The numbers refer to the eight ISO 15797 washing processes

# ▶ LEGEND



## MULTI-RISK PROTECTION

Collections and items marked with "Multi-Risk" are certified according to minimum 4 EN standards. Therefore these are suited for work areas with multiple application fields.



## FEMALE CUT

Tailored with fitted waist and especially made for women.



## HIGH-SPEED DELIVERY SERVICE

These products are available in 21 days (Germany). Our PPE service for urgent needs. Abroad delivery takes few days more.



## LIGHT-WEIGHT FABRIC

If you see this icon the product line is manufactured with extraordinarily light-weight fabrics.



## GARMENT WEIGHT

The garment weight tells you how much exactly weighs the item, based on a medium size (M or 52).



## DEEP FREEZING COLD STORE PLUS

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



## DEEP FREEZING COLD STORE

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



## COOLING CHILLROOM

Clothing for work in moderately cold conditions



## READY TO WEAR

This collection can be configured individually (216 colour combinations, 12 equipment versions) and will be with you within 21 days.



## SUSTAINABILITY

Products with this icon are made of sustainable eco-friendly materials like organic cotton or recycled PET bottles.



## ERGONOMIC DESIGN

Product line with ergonomically optimised cut for more freedom of movement.



## BREATHABILITY

This product offers a pleasant wearing and climate comfort thanks to its fast drying material and a quick moisture transport.



## BODY MAPPING

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

## ATPV = Arc Thermal Performance Value:

Thermal value, which indicates the energy applied to a textile material where there is a 50 % probability of second degree skin burns, given in cal/cm<sup>2</sup> or kJ/m<sup>2</sup> = heat quantity per unit of area.

## EBT50 Breakopen Treshold Energy:

Thermal value which illustrates the impact energy on a textile material at which there is a 50 % probability of the material breaking open before an ATPV value can be determined, given in cal/cm<sup>2</sup> or kJ/m<sup>2</sup> = heat quantity per unit of area.

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

## HAF = Heat Attenuation Factor:


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

## 4kA and 7kA/4kA

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

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

## Reflective stripes

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

# CUSTOMER SERVICE

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## D-A-CH

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