



GENERAL CATALOGUE 2026  
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 PRODUCT PROTECTION

ESD  
ELECTRO-  
STATIC  
DISCHARGE



CLEANROOM  
PRODUCT PROTECTION

CLEANROOM  
& DUST



# ► EDITORIAL

HB PROTECTIVE WEAR. DIE SCHUTZMARKE!

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HB  
PROTECTIVE  
WEAR



Dear Sir or Madam,  
Dear business partners and customers,

Whether protection against arc flashes, heat, and cold or ESD product protection: With our new 2026 catalogue, we present many new products and collections and showcase sustainable solutions for modern PPE and ESD protective clothing. Our focus is on functional, environmentally friendly, and durable materials.

For ESD product protection, we offer two collections made from organic and recycled materials: **CONDUCTEX® Green Turtle** and **CONDUCTEX® Cotton Knit Green Turtle**. Like our proven **CONDUCTEX® Pro Knit** range, both have been expanded to include many new colours and styles, especially for women. Here you will find everything you need for your ESD workplace – from T-shirts to coats. This extensive new product range is unparalleled in its depth and breadth.

In the field of arc flash protection, we are relaunching our bestseller HB-MODarc&vis®: the new high-performance **HB-ArcFlash Pro** collection for men and women. It impresses

with its top design, high functionality, and optimal fit thanks to its ergonomic cut and stretch inserts.

For high-temperature environments, we present an innovative metallized heat protection that provides noticeable relief when working on blast furnaces:

**TEMPEX®-TREME HEAT COMFORT Duo**. Different material thicknesses result in a lower overall weight and greater physical relief: At the front, where radiant heat has the greatest impact, we use a fabric with C4 protection, and at the back, a lighter material.

In the FIRE & RESCUE section, we showcase our new, well-equipped **Technical Rescue trousers** for men and women, as well as our **HB-FeuerwehrHELDEN** collection for children and young people, a modern outfit for the important future fire brigade personnel.

In short: In our new comprehensive catalogue, you will experience a unique combination of function, design, and protection that go hand in hand at HB Protective Wear. We hope you enjoy discovering the new products – always one step ahead!

Klaus Berthold  
CEO  
Owner of HB Protective Wear



Scan me:  
HB-Newsletter



# CONTENT

## HB PROTECTIVE WEAR

### THE COMPANY

Die Schutzmarke .....	06
Logistic efficiency and sustainable processes.....	08
Quality and fairness as corporate principles .....	10
Engaged for employees and society .....	12
All signs on green .....	14
Multi-risk protection from HB .....	16

## ARC & ENERGY

### ARC FLASH PROTECTION .....

HB-SecureAllround® Jacket, trousers, coverall, bib and brace trousers .....	18
HB-ArcSelect® Pro Blouson, trousers .....	22
HB-ArcSelect® Pro Bib and brace trousers .....	24
HB-ArcSelect® Pro Shirt, coat .....	26
HB-4arc® Blouson, trousers, bib and brace trousers .....	28
HB-MODarc® Blouson, trousers, bib and brace trousers .....	30
HB-MODarc® Blouson, trousers, bib and brace trousers with reflective stripes .....	32
HB-MODarc® Ladies: Blouson, trousers .....	34
HB-MODarc® Polo shirt, long sleeve.....	36
HB-MODarc® Long sleeve, sweatshirt, loop-sweatshirt .....	38
HB-PROtection® Jacket, trousers, bib and brace trousers .....	40
HB-PROtection® Ladies: jacket, trousers .....	42
HB-PROtection® Green Turtle Shirt .....	44
HB-MODarc&vis® Polo shirt, sweatshirt, vest high-vis FR .....	46
HB-MODarc&vis® Fleece jacket, parka with liner .....	48
HB-MODarc&vis® Parka with direct laminate, brace trousers.....	50
HB-ArcFlash Pro Blouson, trousers, bib and brace trousers .....	52
HB-ArcFlash Pro Softshell, Ladies: Blouson, trousers.....	54
HB-4Energy® Jacket, trousers, Ladies trousers.....	56
HB-4Energy® Bib and brace trousers, trousers .....	58
HB-MultiPro FR® Parka .....	60
HB-MultiPro FR® Bib and brace trousers, Fleece jacket .....	62
NOMEX® Viskose Blouson, trousers, bib and brace trousers .....	64
NOMEX® Comfort Blouson, jacket, coat .....	66
NOMEX® Comfort Trousers, bib and brace trousers, Overall.....	68
INOTEC® Arc & Energy Jacket, rousers, bib and brace trousers ....	70

## HEAT, SPLASHES & WELDING

### HEAT, SPLASHES AND WELDING PROTECTION .....

PROBAN® Jacket, trousers, bib and brace trousers .....	74
HB-WeldersFORCE® Blouson, trousers .....	76
HB-WeldersFORCE® Bib and brace trousers .....	78
HB-4welders® 2.0 Blouson, trousers, bib and brace trousers .....	80
HB-ComFlex® Jacket, trousers .....	82
HB-ComFlex® Bib and brace trousers, apron with sleeves.....	84
SECAN® Securo 420 Jacket, trousers, bib and brace trousers.....	86
HB-Iron Pro Jacket, trousers, bib and brace trousers, shirt.....	88
MARLAN Jacket, trousers, bib and brace trousers, shirt.....	90
HB-HeavyMetal Pro® Jacket, trousers.....	92
HB-HeavyMetal Pro® Bib and brace trousers, shirt.....	94
VINEX® Blouson, trousers, bib and brace trousers, shirt.....	96
Accessories Heat Cooling garments, knee pads, belt FR .....	98
TEMPEX®-TREME HEAT Material overview .....	100
TEMPEX®-TREME HEAT CLASSIC KF-3/Z.....	102
TEMPEX®-TREME HEAT COMFORT AW-1/Y and CK-12/Z.....	105
TEMPEX®-TREME HEAT COMFORT Duo AW-1/Y and CK-12/Z .....	108
TEMPEX®-TREME HEAT COMFORT Plus AW-1/Y and CK-12/Z .....	110
TEMPEX®-TREME HEAT Face- and head protection .....	112
TEMPEX®-TREME HEAT Hand protection.....	118
TEMPEX®-TREME HEAT Foot protection.....	119

## CHEMICALS

CHEMICAL PROTECTION .....	120
HB-CHEMstandard Jacket, coat, shirt, trousers, bib and brace trousers.....	122
HB-CHEMprotect® Jacket, shirt, trousers, Latzhose .....	124
HB-CHEMprotect® Jacket, shirt, trousers, bib and brace trousers ..	126
HB-CHEM Functional underwear Undershirt, underpants ..	127

## HIVIS & WEATHER

HIGH VISIBILITY AND WEATHER PROTECTION .....	128
HI-VISION® Basic Polo shirt, T-shirt .....	130
HB-StormBase® Parka, brace trousers.....	132



COLD  
PROTECTION

<b>COLD PROTECTION</b> .....	134
TEMPEX® CLASSIC CHILLROOM Jacket, vest, trousers .....	136
TEMPEX® CLASSIC COLD STORE Jacket, trousers, coat visitor, coverall (order picker) .....	138
TEMPEX® CLASSIC COLD STORE Plus Jacket, trousers (forklift driver) .....	140
TEMPEX® COMFORT CHILLROOM Jacket .....	141
TEMPEX® COMFORT CHILLROOM Vest, trousers .....	142
TEMPEX® COMFORT COLD STORE Jacket, trousers (order picker) ..	143
TEMPEX® COMFORT COLD STORE Coat visitor, coverall .....	144
TEMPEX® COMFORT COLD STORE Plus Jacket, trousers (forklift driver) .....	145
TEMPEX® THERMO Fleece-jacket, -vest, -shirt, -trousers .....	146
TEMPEX® THERMO Jacket, vest, trousers .....	148
TEMPEX® HYGIENE Jacket, vest, trousers, Besuchermantel (Komissionierer) .....	150
TEMPEX® THERMO HYGIENE Jacket, vest, trousers .....	152
TEMPEX® COLD Pro COLD STORE Jacket, inner jacket, trousers ..	154
TEMPEX® THERMO Accessories Functional underwear .....	156
TEMPEX® THERMO Accessories Face- and head protection .....	158
TEMPEX® THERMO Accessories Hand protection .....	160
TEMPEX® THERMO Accessories Foot protection .....	166

FIRE &  
RESCUE  
SERVICES

<b>TECHNICAL ASSISTANCE, RESCUE, AREA FIRE FIGHTING AND STATION WEAR</b> .....	168
HB-FeuerwehrHELDEN Jacket, trousers, braces .....	170
Flammgard® KLASSIK Blouson, jacket .....	172
Flammgard® KLASSIK Trousers, softshell-, fleece jacket .....	174
Flammgard® KLASSIK Green Turtle Polo shirt, blouse, shirt ..	176
Flammgard® NORDRHEIN-WESTFALEN Blouson, trousers .....	178
Flammgard® BADEN-WÜRTTEMBERG Blouson, jacket .....	180
Flammgard® BADEN-WÜRTTEMBERG Trousers, softshell-, fleece jacket .....	182
Flammgard® SAARLAND Blouson, jacket .....	184
Flammgard® SAARLAND Trousers, softshell-, fleece jacket .....	186
Flammgard® BAYERN Blouson, trousers .....	188
HB-TECHNICAL RESCUE Parka, trousers, fleece jacket .....	190
HB-TECHNICAL RESCUE LITE Jacket, trousers .....	192
HB-WILDFIRE® 2.0 Jacket, identification collar .....	194
HB-WILDFIRE® 2.0 Trousers, braces .....	196

ESD  
ELECTRO-  
STATIC  
DISCHARGE

<b>ESD PRODUCT PROTECTION</b> .....	198
CONDUCTEX® Green Turtle Coat .....	200
CONDUCTEX® Green Turtle Coat, trousers .....	202
CONDUCTEX® Cotton Knit Green Turtle T-shirt, polo shirt....	204
CONDUCTEX® Cotton Knit Green Turtle T-shirt, polo shirt....	206
CONDUCTEX® Pro Knit Polo shirt .....	208
CONDUCTEX® Pro Knit Polo shirt, T-Shirt .....	210
CONDUCTEX® Pro Knit Long-sleeve, sweatshirt .....	212
CONDUCTEX® Pro Knit Sweatjacket .....	214
Naptex® 4.0 Blouson, trousers .....	216
Naptex® 4.0 Coat .....	218
HABETEX® ESD Comfort Coverall .....	220
HABETEX® ESD Comfort Coat .....	221
Accessories ESD Head cover .....	223

CLEANROOM  
& DUST

<b>CLEANROOM PRODUCT PROTECTION</b> .....	224
HABETEX® climatic Pro Coat, coverall .....	226
HABETEX® Micronplus Coverall .....	227
HABETEX® Micronselect Coverall, coat .....	228
Accessories CLEANROOM Head and hand protection .....	230

**WORTH KNOWING and TEMPEX®-TREME HEAT VARIANTS  
MODULAR SYSTEM METALLISED HEAT PROTECTION**

Overview product lines .....	232
TEMPEX®-TREME HEAT Modular system .....	236
Our Partners .....	241
Emblems and patches: Your logo on your PPE .....	242
READY TO WEAR .....	244
Insulation values Cold protection .....	245
Standards .....	246
Sizes and care .....	248
Legend .....	250
Customer service .....	251

# DIE SCHUTZ MARKE!

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



## HB PROTECTIVE WEAR

# PROTECTIVE GARMENTS MADE WITH RESPONSIBILITY AND VISIONS

For more than 70 years, HB Protective Wear has been Germany's only manufacturer focusing exclusively on personal protective clothing. Our logo – the turtle – stands for adaptability and resilience, and with its shell, it has the most personal of all protective equipment. Thanks to our deep knowledge of standards and materials, as well as a clear commitment to sustainability and small and medium-sized businesses, we are one of the market-leading suppliers of protective clothing in Germany and Europe.

We offer a broad, flexibly configurable product portfolio that can be tailored to the respective corporate CI and, of course, meets the required standards profile. With READY TO WEAR and a modular heat protection system, we enable fast, tailor-made solutions – especially for small and medium-sized companies. Personal advice, a well-stocked web shop, and a dedicated service team are always available to answer your questions immediately and find the best solutions.

And so, we continue to invest in quality, innovation, and customer focus in order to offer even more flexible, safer, and more sustainable PPE solutions. In short: we combine in-depth expertise, individual product design, and first-class service to provide you with reliable, sustainable protective clothing – always one step ahead and always tailored to your needs.

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





## HB PROTECTIVE WEAR

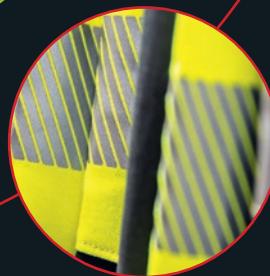
### LOGISTIC EFFICIENCY AND SUSTAINABLE PROCESSES

Our central logistics center, covering over 4,000 m<sup>2</sup>, can hold up to 500,000 garments – most of which are produced in Europe. This enables us to deliver more than 1.5 million garments annually and ensure reliable supply even when order volumes are high. If an item is not immediately available, our high-speed delivery service 21 TO WEAR® steps in for selected collections: delivery within 21 days – an additional safety buffer for your planning.

Sustainability and safety are core principles: we work closely with customers, certification institutes, standards committees, and trade associations to optimize our manufacturing processes and ensure that we always meet the latest safety standards. Wherever possible, we use environmentally friendly materials. This responsible approach not only enhances the safety of PPE wearers but also reduces the ecological footprint of our products.

In addition, we are ISO 9001 and ISO 14001 certified. On top, we improved our position in the international EcoVadis CSR ranking in 2025 and are among the top 5 % in our industry worldwide. We only can achieve all this thanks to our qualified employees with their passion for PPE, strong customer focus, and highly specialized material and processing expertise. That is why our brand promise is: **BE SAFE. WE CARE.**

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





## HB PROTECTIVE WEAR

### ACTING RESPONSIBLY – QUALITY AND FAIRNESS AS CORPORATE PRINCIPLES

HB Protective Wear attaches great importance to personal responsibility and comprehensive quality assurance. The annual auditing and certification of our Category III PPE items in accordance with Module D of EU Regulation 2016/425 ensures that our products meet the most stringent safety standards. The extended testing procedure increases both the safety and the overall quality of our protective clothing. This approach allows us to conserve resources, reduce costs, and at the same time respond flexibly to individual customer requirements.

Fair interaction with employees, partners, and suppliers is firmly anchored in our corporate culture; values such as honesty, partnership-based thinking, and social responsibility shape our daily actions. Our ethical guidelines are laid down in our publicly available Code of Conduct. This defines binding rules of conduct that oblige us to do our business in accordance with social expectations. Regular social audits ensure that these standards are consistently implemented not only internally, but also by our suppliers.

In brief, HB Protective Wear combines the highest product quality, transparent practices, resource-efficient production, and a strong ethical foundation – a combination that gives our customers the confidence they need in their protective equipment.



WE SUPPORT OUR EMPLOYEES AND MAKE POSITIVE CONTRIBUTIONS TO SOCIETY.



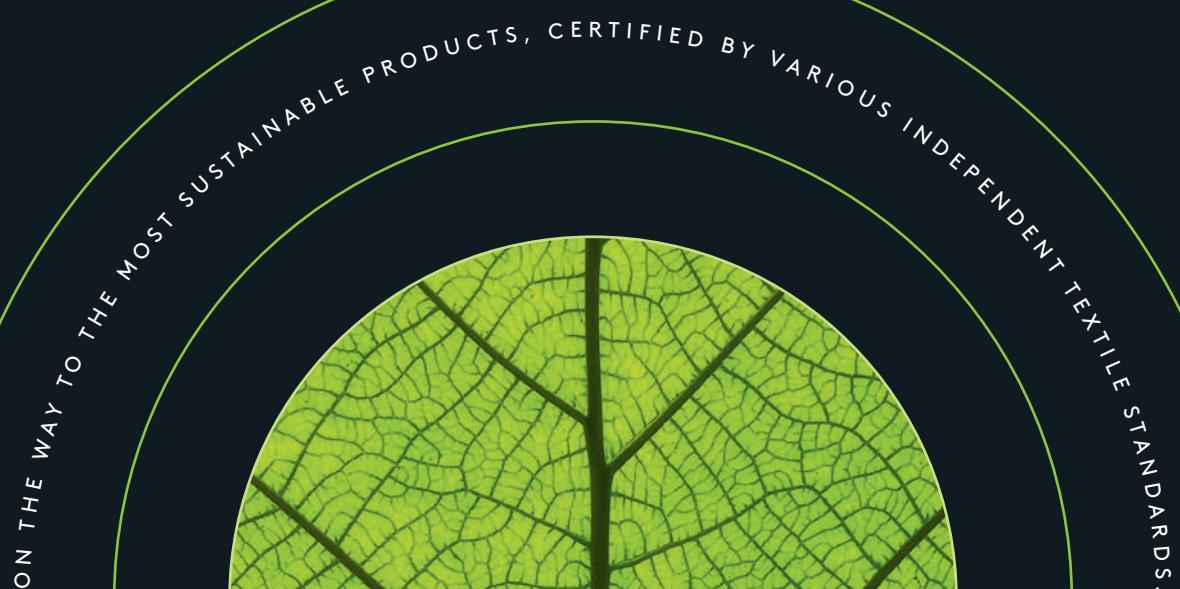
## HB PROTECTIVE WEAR

### COMMITMENT TO EMPLOYEES AND SOCIETY

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

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

We show further social commitment by supporting charitable institutions in our region with regular donations. But it is also a tradition for our international production companies to assist to charitable causes of their choice at their respective locations, supported by HB's headquarter.



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



sustainBility



## HB PROTECTIVE WEAR

### ALL SIGNS ON GREEN

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

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

In order to provide the wearers of our protective clothing with the best possible sustainable protection, many of our products are certified to OEKO-TEX® STANDARD 100 – which you can read in our OEKO-TEX® certificates.



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





## HB PROTECTIVE WEAR

### WHAT IS BETTER THAN PROTECTION? THE RIGHT PROTECTION

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

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

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

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

ARC & ENERGY

## YOU HAVE ALWAYS BEEN PROUD OF NOT FOLLOWING THE HERD.

You have your own views and ideas and want people to see that.

Our Arc & Energy range offers you plenty of scope to set your own individual accents.

Simply choose from a wide range of colours, comfortable materials and top designs to suit your taste. With the good feeling that you are optimally protected from the hazards of your profession, such as arc flashes or sudden ignition.

Mind you, at the forefront of the trend – and not behind it.





Model: Julia, Quality Assurance  
Collection: HB-ArcFlash Pro

Model: Paul, Marketing  
Collection: HB-ArcSelect® Pro

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	IEC 61482-2 APC 1	EN ISO 11612 A1+A2/B1/C1/ E2/FT	EN ISO 11611 Class 1 A1+A2	EN 1149-5	EN 13034 Type 6	EN ISO 15797	REGULAR SIZES, IN STOCK
1   2   3   4		3026	dark blue/ medium grey/red							46-58, 94-110 More sizes available see page 248

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



## JACKET 4KA

Arc flash class 1

Part number: **01128 10134 020 3026**

Garment weight: approx. 1,240 g

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

## TROUSERS 4KA

Arc flash class 1

Part number: **01128 20081 050 3026**

Garment weight: approx. 1,060 g

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



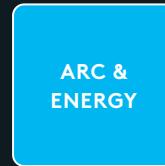
### 1 collection – more than 1,000 possibilities

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

### These colours are available:



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



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

Closure band  
with snap  
fasteners  
covered on  
both sides



Elasticated  
section  
for kidney  
protection

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

#### 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

**FABRIC WEIGHT:** approx. 350 g/m<sup>2</sup>

**ATPV VALUE:** 17.3 cal/cm<sup>2</sup> . 724.3 kJ/m<sup>2</sup> . **HAF VALUE:** 84.1%

**HABETEX®**

# HB-ArcSelect® Pro

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

ITEM	COLOUR	COLOUR NO.	COLOUR NAME	IEC 61482-2	EN ISO 11612	EN ISO 11611	EN 1149-5	EN 17353	PRO	REGULAR SIZES, IN STOCK
1		<b>2041</b> <b>2081</b> <b>2382</b>	navy/royal anthracite/red anthracite/medium grey	IEC 61482-2 1-ply: APC 1 2-ply: APC 2* *Front part and sleeves/ front trousers	EN ISO 11612 A1+A2/B1/ C1/F1	EN ISO 11611 Class 1 A1+A2	EN 1149-5	EN 17353 Type B2		46-58, 94-110 More sizes available see page 248
2   , 3		<b>45</b> <b>58</b>	navy anthracite							

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



## BLOUSON 4kA

Arc flash class 1

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

Garment weight: approx. 950 g

## BLOUSON 7kA/4kA

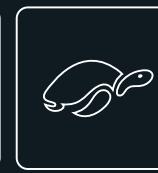
Arc flash class 2

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

Garment weight: approx. 1,100 g

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





Standard pictograms as flame-retardant direct embroidery



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



#### TROUSERS 4kA

Arc flash class 1

Part number: 01228 20000 015 + COLOUR NO.

Garment weight: approx. 760g

#### TROUSERS 7kA/4kA

Arc flash class 2

Part number: 01228 20000 016 + COLOUR NO.

Garment weight: approx. 870g

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

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

**FABRIC WEIGHT:** approx. 340 g/m<sup>2</sup> (2-ply: + approx. 280 g/m<sup>2</sup>)

**4kA: ATPV VALUE:** 13.0 cal/cm<sup>2</sup>

**7kA/4kA: ATPV VALUE:** 37.0 cal/cm<sup>2</sup> • **ELIM:** 18.0 cal/cm<sup>2</sup>

# HB-ArcSelect® Pro

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

ITEM	COLOUR	COLOUR NO.	COLOUR NAME	IEC 61482-2	EN ISO 11612	EN ISO 11611	EN 1149-5	EN 17353	PRO	REGULAR SIZES, IN STOCK
1		2041	navy/royal	IEC 61482-2 1-ply: APC 1						46-58, 94-110
		2081	anthracite/red	2-ply: APC 2*	EN ISO 11612 A1+A2/81/ C1/F1	EN ISO 11611 Class 1 A1+A2	EN 1149-5	EN 17353 Type B2		More sizes available see page 248
2  , 3		2382	anthracite/medium grey	* Front part and sleeves/ front trousers					EN ISO 15797	
		45	navy							
		58	anthracite							

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



2 and 3 | Front trousers available as 1-ply  
or 2-ply version

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



## BIB AND BRACE TROUSERS 4kA

Arc flash class 1

Part number: **01228 50100 013 + COLOUR NO.**

Garment weight: approx. 960g

## BIB AND BRACE TROUSERS 7kA/4kA

Arc flash class 2

Part number: **01228 50100 014 + COLOUR NO.**

Garment weight: approx. 1,050g

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



## POSSIBLE COMBINATIONS – IN 2 PROTECTION CLASSES



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

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

**FABRIC WEIGHT:** approx. 340 g/m<sup>2</sup> (2-ply: + approx. 280 g/m<sup>2</sup>)

**4kA: ATPV VALUE:** 13.0 cal/cm<sup>2</sup>

**7kA/4kA: ATPV VALUE:** 37.0 cal/cm<sup>2</sup> · **ELIM:** 18.0 cal/cm<sup>2</sup>

# HB-ArcSelect® Pro

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

ITEM	COLOUR	COLOUR NO.	COLOUR NAME	IEC	EN ISO	EN ISO	EN ISO	PRO	REGULAR SIZES, IN STOCK
1	blue	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	EN ISO 15797	37/38 – 47/48 More sizes available see page 248
	dark blue	45	navy						
	medium grey	52	medium grey						
	orange	22	orange						
2	dark blue	45	navy	IEC 61482-2 APC 2	EN ISO 11612 A1+A2/B1/C1/F1				S-2XL More sizes available see page 248

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



## SHIRT 4KA

Arc flash class 1

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

Garment weight: approx. 560g

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



2 |



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



Moving pleat on the back

#### MEN'S COAT 7kA

Arc flash class 2

Part number: 01228 40030 006 45

Garment weight: approx. 1,650 g

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

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

**1 | ATPV VALUE:** 12.3 cal/cm<sup>2</sup> . **HAF VALUE:** 82.3 % . **FABRIC WEIGHT:** approx. 280 g/m<sup>2</sup> .

**2 | ATPV VALUE:** 37.0 cal/cm<sup>2</sup> . **ELIM:** 18.0 cal/cm<sup>2</sup> . **FABRIC WEIGHT:** approx. 340 g/m<sup>2</sup> + approx. 280 g/m<sup>2</sup>

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

ITEM	COLOUR	COLOUR NO.	COLOUR NAME	IEC 61482-2 APC 2*	EN ISO 11612 A1+A2/B1/C1/E3/F1	EN ISO 11611 Class 2 A1+A2	EN 1149-5	EN ISO 15797	REGULAR SIZES, IN STOCK
1		2205	navy/medium grey		IEC 61482-2 APC 2* *From part and sleeves/ front trousers		EN ISO 11612 A1+A2/B1/C1/E3/F1		EN ISO 11611 Class 2 A1+A2
2, 3		458	navy		EN 1149-5		EN ISO 15797		46-58, 94-110 More sizes available see page 248

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

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



Easy fit:  
Shaped elbow with dart



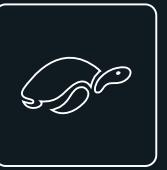
#### BLOUSON 7kA/4kA

Arc flash class 2

Part number: **01237 10125 002 2205**

Garment weight: approx. 1,291g

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



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



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



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

Flame-retardant  
stretch braces with  
useful fixlock buckle

Side entries with  
elastic knitted wedge

#### **TROUSERS 7KA/4KA**

Arc flash class 2

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

Garment weight: approx. 1,152 g

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

#### **BIB AND BRACE TROUSERS 7KA/4KA**

Arc flash class 2

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

Garment weight: approx. 1,361 g

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

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

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

**ATPV VALUE:** 20.0 cal/cm<sup>2</sup> · 836.8 kJ/m<sup>2</sup> · **ELIM:** 16.0 cal/cm<sup>2</sup>

**HB-4arc®**

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

ITEM	COLOUR	COLOUR NO.	COLOUR NAME	IEC 61482-2	EN ISO 11612	EN ISO 11611	EN 1149-5	EN 13034	EN ISO 15797	REGULAR SIZES, IN STOCK
1		2251	grey/black	1-ply: AFC 1	EN ISO 11612 A1+A2/B1/ C1/F1	EN ISO 11611 Class 1 A1+A2	EN 1149-5	EN 13034 Type 6	EN ISO 15797	46-58, 94-110
2,3		2251	grey/black	2-ply: AFC 2*	*Front part and sleeves/ front trousers					More sizes available see page 248
		2188	black/grey							

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

**Blouson also available in black/grey – in just 21 days delivered.**  
**4kA: 01072 10107 034 2188**  
**7kA/4kA: 01072 10107 035 2188**



#### BLOUSON 4kA

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

#### BLOUSON 7kA/4kA

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

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



#### TROUSERS 4kA

Arc flash class 1

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

Garment weight: approx. 730 g

#### TROUSERS 7kA/4kA

Arc flash class 2

Part number: **01072 20074 003 + COLOUR NO.**

Garment weight: approx. 845 g

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



#### BIB AND BRACE TROUSERS 4kA

Arc flash class 1

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

Garment weight: approx. 855 g

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

Arc flash class 2

Part number: **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

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

**4kA: ATPV VALUE:** 13.0 cal/cm<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 %

**HABETEX**

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

ITEM	COLOUR	COLOUR NO.	COLOUR NAME	IEC 61482-2	EN ISO 11612	EN ISO 11611	EN 1149-5	EN 13034	EN 17353	PRO	REGULAR SIZES, IN STOCK
1		2251	grey/black	1-ply: APC 1					Type B3		46-58, 94-110
		2041	navy/royal	2-ply: APC 2*	EN ISO 11612 A1+A2/B1/ C1/F1	EN ISO 11611 Class 1 A1+A2	EN 1149-5				EN ISO 15797 Washing temperature 60 °C
2,3		2251	grey/black	*Front part and sleeves/ front trousers					EN 17353 Type B2		More sizes available see page 248
		2188	black/grey								
		45	navy								

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

**Blouson also available in black/grey – in just 21 days delivered.**  
**4kA: 01072 10107 050 2188**  
**7kA/4kA: 01072 10107 051 2188**

#### Higher visibility:

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

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

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



Completely manufactured in roof-tile design

Reflective stripes, suited for industrial laundry

Band collar with covered snap fastener



#### **BLOUSON 4kA REFLECTIVE STRIPES**

Arc flash class 1

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

Garment weight: approx. 895 g

#### **BLOUSON 7kA/4kA REFLECTIVE STRIPES**

Arc flash class 2

Part number: **01072 10107 051 + 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 high-visibility protective clothing acc. to EN ISO 20471.



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



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

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

#### TROUSERS 4kA REFLECTIVE STRIPES

Arc flash class 1

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

Garment weight: approx. 765g

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

Arc flash class 2

Part number: **01072 20074 038 + COLOUR NO.**  
**01072 20074 040 45**

Garment weight: approx. 880g

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

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

Arc flash class 1

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

Garment weight: approx. 890g

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

Arc flash class 2

Part number: **01072 50055 032 + COLOUR NO.**  
**01072 50055 034 45**

Garment weight: approx. 1,005g

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

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

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

**4kA: ATPV VALUE:** 13.0 cal/cm<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 %

**HABETEX**

HB-MODarc® is high-quality arc flash PPE for women that can be easily combined and adapted to different applications. The soft and lightweight fabric offers a good fit with plenty of freedom of movement and, thanks to the cotton, is very comfortable to wear. The 2-layer models are double-layered in key areas. Available from 1 item via our high-speed delivery service 21 TO WEAR®.

ITEM	COLOUR	COLOUR NO.	COLOUR NAME	IEC 61482-2 1-ply: APC 1	EN ISO 11612 A1+A2/B1/ C1/F1	EN ISO 11611 Class 1 A1+A2	EN 1149-5	EN 13034 Type 6	EN 17353 Type B3	EN 17353 Type B2	PRO HIGH SPEED	REGULAR SIZES, AVAILABLE
1	2251 2188	2251 2188	grey/black black/grey									
2	2251 2188	2251 2188	grey/black black/grey	IEC 61482-2 1-ply: APC 1	EN ISO 11612 A1+A2/B1/ C1/F1	EN ISO 11611 Class 1 A1+A2	EN 1149-5	EN 13034 Type 6	EN 17353 Type B3	EN 17353 Type B2		EN ISO 15797 Washing temperature 60°C
3	2041 2251 2188	2041 2251 2188	navy/royal grey/black black/grey	IEC 61482-2 2-ply: APC 2* * Front part and sleeves/ front trousers	EN ISO 11612 A1+A2/B1/ C1/F1	EN ISO 11611 Class 1 A1+A2	EN 1149-5	EN 13034 Type 6	EN 17353 Type B3	EN 17353 Type B2		36–46, 18–23, 72–92 More sizes available see page 248
4	2188	45	black/grey navy									

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



The products on this page can be ordered  
from one piece and are available via our  
highspeed delivery service 21 TO WEAR.



## LADIES BLOUSON 4kA

Arc flash class 1

Part number: **01072 10206 002 + COLOUR NO.**

Garment weight: approx. 770g

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.



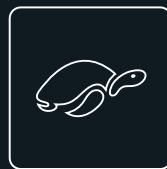
## LADIES TROUSERS 4kA

Arc flash class 1

Part number: **01072 20144 006 + COLOUR NO.**

Garment weight: approx. 705g

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.



#### Higher visibility:

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



#### LADIES BLOUSON 4kA REFLECTIVE STRIPES

Arc flash class 1

Part number: **01072 10206 013 + COLOUR NO.**

Garment weight: approx. 820 g

#### LADIES BLOUSON 7kA/4kA REFLECTIVE STRIPES

Arc flash class 2

Part number: **01072 10206 014 + COLOUR NO.**

Garment weight: approx. 905 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 high-visibility protective clothing acc. to EN ISO 20471.

#### LADIES TROUSERS 4kA REFLECTIVE STRIPES

Arc flash class 1

Part number: **01072 20144 020 2188**

**01072 20144 022 45**

Garment weight: approx. 735 g

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

Arc flash class 2

Part number: **01072 20144 021 2188**

**01072 20144 023 45**

Garment weight: approx. 850 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 high-visibility protective clothing acc. to EN ISO 20471.

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

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

**4kA: ATPV VALUE:** 13.0 cal/cm<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 %

**HABETEX®**

As an additional layer of clothing, our shirts increase the protective function and thus extend the possible uses of PPE. The intelligent clothing solutions in our extensive HB-MODarc® collection thus cover many areas of work.

ITEM	COLOUR	COLOUR NO.	COLOUR NAME					REGULAR SIZES, IN STOCK
1  , 2	 	45 521	navy cement grey					S-2XL More sizes available see page 248
2	 	228 50	orange light grey	IEC 61482-2 APC 1	EN ISO 11612 A1+A2/B1/ C1/F1	EN 1149-5	EN 13758-2	XS-L More sizes available see page 248
3  , 4		45	navy					

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



**LONG SLEEVE 4kA**  
Arc flash class 1  
Part number: **01244 80010 007 + COLOUR NO.**  
Garment weight: approx. 295g

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.





#### LADIES POLO SHIRT 4kA, LONG SLEEVE

Arc flash class 1

Part number: **01244 80022 000 45**

Garment weight: approx. 270g

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.

#### LADIES LONG SLEEVE 4kA

Arc flash class 1

Part number: **01244 80022 002 45**

Garment weight: approx. 265g

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.

**MATERIAL:** 54% MODACRYLIC, 44% COTTON, 2% CARBON .

**ATPV VALUE:** 7.3 cal/cm<sup>2</sup> . **ELIM:** 6.12 cal/cm<sup>2</sup> . **EBT50 VALUE:** 7.4 cal/cm<sup>2</sup> . **FABRIC WEIGHT:** approx. 225 g/m<sup>2</sup>

Long-sleeved shirt, sweatshirt and loop shirt represent a contemporary PPE look and increase the protective function of your PPE by adding an extra layer of clothing. Sweatshirt and loop shirt even offer arc flash class 2 protection and can also be worn solo. The extensive solutions in our large HB-MODarc® collection thus expand the range of possible applications and cover many areas of work.

ITEM	COLOUR	COLOUR-NO.	COLOUR NAME	IEC 61482-2 APC 1	IEC 61482-2 APC 2	EN ISO 11612 A1+A2/B1/C1/F1	EN ISO 11612 A1/B1/C1	EN 1149-5	EN 13758-2	EN ISO 15797 Washing temperature 60°C	REGULAR SIZES, IN STOCK
1		45	navy								S-2XL
2  , 3											More sizes available see page 248

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



Cuffs with cover stitching



**1, 2 and 3 |**  
Standards pictograms as flame retardant embroidery

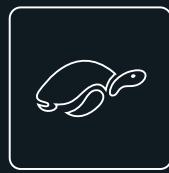
#### LONG SLEEVE 4kA

Arc flash class 1

Part number: **01294 80026 000 45**

Garment weight: approx. 305 g

Single-coloured • lightweight jersey T-shirt with round neck • cuffs with cover stitching • leasing label • standard pictograms as FR direct embroidery on the lower left sleeve.



#### SWEATSHIRT 7kA

Arc flash class 2

Part number: **01279 80023 005 45**

Garment weight: approx. 650g

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

#### LOOP-SWEATSHIRT 7kA

Arc flash class 2

Part number: **01279 80023 003 45**

Garment weight: approx. 780g

Single-coloured • overlapping stand-up collar • inserted pocket openings with zippers • sleeve ends and hem with knitted cuffs • standard pictograms as FR direct embroidery on the lower left sleeve • leasing label.

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

**1 | FABRIC WEIGHT:** approx. 170 g/m<sup>2</sup> . . . **2 | 3 | FABRIC WEIGHT:** approx. 405 g/m<sup>2</sup> . . .

**1 | EBT50-WERT:** 4.7 cal/cm<sup>2</sup> . . . **ELIM:** 4.1 cal/cm<sup>2</sup> . . .

**2 | 3 | ATPV-WERT:** 19.0 cal/cm<sup>2</sup> . . . **ELIM:** 12.0 cal/cm<sup>2</sup>

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

ITEM	COLOUR	COLOUR NO.	COLOUR NAME	IEC 61482-2 1-ply: APC 1	IEC 61482-2 2-ply: APC 2* *Front part and sleeves/ front trousers	EN ISO 11612 A1+A2/B1/ C1/F1	EN ISO 11611 Class 1 A1+A2	EN 1149-5	EN 13034 Type 6	EN ISO 15797	PRO T	REGULAR SIZES, IN STOCK
1		<b>2177</b>	navy/dark grey									46–58, 94–110
2  , 3		<b>2175</b>	dark grey/navy									More sizes available see page 248
1		<b>2177</b>	navy/dark grey		IEC 61482-2 APC 2							
2		<b>2175</b>	dark grey/navy									

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



The 7kA version is completely doubled



#### JACKET 4kA

Arc flash class 1

Part number: **01072 10112 020 2177**

Garment weight: approx. 835 g

#### JACKET 7kA/4kA

Arc flash class 2

Part number: **01072 10112 018 2177**

Garment weight: approx. 910 g

#### JACKET 7kA

Arc flash class 2

Part number: **01072 10112 019 2177**

Garment weight: approx. 945 g

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

**21 TO WEAR****ARC & ENERGY****TROUSERS 4kA**

Arc flash class 1

Part number: **01072 20074 017 2175**

Garment weight: approx. 730g

**TROUSERS 7kA/4kA**

Arc flash class 2

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

Garment weight: approx. 795g

**TROUSERS 7kA**

Arc flash class 2

Part number: **01072 20074 035 2175**

Garment weight: approx. 860g

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

**BIB AND BRACE TROUSERS 4kA**

Arc flash class 1

Part number: **01072 50055 015 2175**

Garment weight: approx. 855g

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

Arc flash class 2

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

Garment weight: approx. 970g

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

**MATERIAL:** 55 % MODACRYLIC, 43 % COTTON, 2 % CARBON**FABRIC WEIGHT:** approx. 275 g/m<sup>2</sup> (2-ply: + approx. 175 g/m<sup>2</sup>)**4kA: ATPV VALUE:** 13.0 cal/cm<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 %**HB-PROtection**

Modern and comfortable arc flash protection for women: HB-PROtection®. The extremely soft fabric and optimised cut ensure a good fit and plenty of freedom of movement. The lightweight material blend delivers impressive arc flash performance. The cotton content also makes it comfortable to wear. For best possible protection the jacket is available in three protective variants.

ITEM	COLOUR	COLOUR NO.	COLOUR NAME	IEC 61482-2	EN ISO 11612	EN ISO 11611	EN 1149-5	EN 13034	EN ISO 15797	REGULAR SIZES, AVAILABLE
1		<b>2177</b>	navy/dark grey	 1-ply: APC 1 2-ply: APC 2* *Front part and sleeves/ front trousers	 EN ISO 11612 A1+A2/B1/ C1/F1	 EN ISO 11611 Class 1 A1+A2	 EN 1149-5	 EN 13034 Type 6	 EN ISO 15797	36–46, 18–23, 72–92 More sizes available see page 248
2		<b>2175</b>	dark grey/navy							

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



#### LADIES JACKET 4kA

Arc flash class 1

Part number: **01072 10206 006 2177**

Garment weight: approx. 1,020g

#### LADIES JACKET 7kA/4kA

Arc flash class 2

Part number: **01072 10206 008 2177**

Garment weight: approx. 1,105g

#### LADIES JACKET 7kA

Arc flash class 2

Part number: **01072 10206 007 2177**

Garment weight: approx. 1,220g

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



#### LADIES TROUSERS 4ka

Arc flash class 1

Part number: 01072 20144 010 2175

Garment weight: approx. 750 g

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



The products on this page can be ordered from one piece and are available via our highspeed delivery service 21 TO WEAR®.

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

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

**4kA: ATPV-WERT:** 13.0 cal/cm<sup>2</sup>

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

**HB-PROtection**

# HB-PROtection® Green Turtle

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

ITEM	COLOUR	COLOUR NO.	COLOUR NAME	IEC 61482-2 APC 1	EN ISO 11612 A1+A2/B1/C1/F1	EN 1149-5	EN 13758-2	EN ISO 15797	REGULAR SIZES, IN STOCK
1	■	45	navy						39/40-47/48 More sizes available see page 248
2	■	52	medium grey						36-48 More sizes available see page 248

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



1 On request the shirt is also available in tight fitting "Body Fit".  
Part number: 01251 60025 000 + COLOUR-NO.  
■ 45 navy ■ 52 middle grey

## SHIRT 4kA

Arc flash class 1

Part number: 01251 60026 000 + COLOUR-NO.

Garment weight: approx. 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.



#### What is the Organic Content Standard?



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



Dart at chest height

#### LADIES SHIRT 4kA

Arc flash class 1

Part number: 01251 60029 000 + COLOUR-NO.

Garment weight: approx. 390 g

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

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

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

**ATPV VALUE:** 6.9 cal/cm<sup>2</sup> • **HAF VALUE:** 72.6 % • **EBT50 VALUE:** 6.4 cal/cm<sup>2</sup>

**HB-PROtection**

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	PROTECTION	REGULAR SIZES, IN STOCK
1		2397	fluorescent orange/navy	IEC 61482-2 APC 1 EN ISO 11612 A1/B1/C1/F1 EN 13758-2	S-2XL More sizes available see page 248
2					XS-L More sizes available see page 248
3					
4					
5		2112	fluorescent yellow/navy	IEC 61482-2 APC 2 EN ISO 11612 A1/B1/C1 EN 1149-5 EN ISO 15797	XS-4XL More sizes available see page 248
6					1-4 More sizes available see page 248

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

### POLO SHIRT 4kA, LONG SLEEVE

Arc flash class 1

Part number: **01270 80012 003 2397**

Garment weight: approx. 350 g

With reflective stripes circumferentially.

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



Polo shirt reflective stripes like braces  
Part number:  
**01270 80012 006 2397**

1 to 5 | Flexible segmented and flame-retardant reflective stripes

### POLO SHIRT 4kA, LONG SLEEVE

Arc flash class 1

Part number: **01244 80012 003 2112**

Garment weight: approx. 300 g

### LADIES POLO SHIRT 4kA, LONG SLEEVE

Arc flash class 1

Part number: **01244 80022 001 2112**

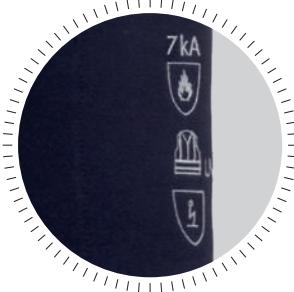
Garment weight: approx. 250 g

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





Standard pictograms as direct embroidery on the collar



4 |



Comfortable knitted cuffs

#### SWEATSHIRT 7kA

Arc flash class 2

Part number: 01279 80023 004 2112

Garment weight: approx. 670g

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

Reflective stripes, suitable for industrial laundry

5 |



Hook&loop fastener

#### VEST HIGH VIS FR

High-Visibility FR

Part number: 01072 10129 001 2112

Garment weight: approx. 435g

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

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

FABRIC WEIGHT: approx. 245 g/m<sup>2</sup> . ATPV VALUE: 8.9 cal/cm<sup>2</sup> . ELIM: 6.8 cal/cm<sup>2</sup> .

3 |, 4 | MATERIAL: 54% MODACRYLIC, 44% COTTON, 2% CARBON . FABRIC WEIGHT: approx. 225 g/m<sup>2</sup> .

ATPV-WERT: 7.3 cal/cm<sup>2</sup> . ELIM: 6.12 cal/cm<sup>2</sup> . EBT50-WERT: 7.4 cal/cm<sup>2</sup> .

5 | MATERIAL: 54% MODACRYLIC, 44% COTTON, 2% CARBON . FABRIC WEIGHT: approx. 405 g/m<sup>2</sup> .

ATPV VALUE: 19.0 cal/cm<sup>2</sup> . 794.96 kJ/m<sup>2</sup> .

6 | MATERIAL: 55% MODACRYLIC, 43% COTTON, 2% CARBON . FABRIC WEIGHT: approx. 275 g/m<sup>2</sup> .

**HABETEX®**

**HI-VISION®**

The HB-MODarc&vis® parka with liner is suitable for a wide range of applications and thanks to the elaborate roof tile processing also for handling liquid metals. With the zip-in inner fleece 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, IN STOCK	
1		2047	black/navy	-	-	-	-	-	-	-	-	-	EN 14056 Class 1	S-2XL More sizes available see page 248	
2		2112	fluorescent yellow/navy	EN ISO 20471 Class 2	EN 343 Class 3/3	IEC 61482-2 APC 2	EN ISO 11612 A1+A2/B1/ C1/E1/F1	EN ISO 11611 Class 1 A1+A2	EN 1149-5	EN 13034 Type PB [6]	-	-	-	-	-
3		45	navy	Certification only in combination with parka											

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

Optimised fit



#### FLEECE JACKET FR

Outdoor

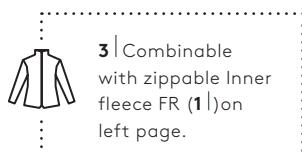
Part number: **07015 19095 000 2047**

Garment weight: approx. 700g

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 wristband • material certified acc. to EN ISO 11612 A1/B1/C1/F1.



ARC &  
ENERGY



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

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

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

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

**OUTER PLY: ATPV VALUE:** 10.4 cal/cm<sup>2</sup> . 435.4 kJ/m<sup>2</sup> . **HAF VALUE:** 80.2 %

**HABETEX®**

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	EN ISO 20471 Class 3 EN ISO 20471 Class 1	EN 343 Class 3/4	IEC 61482-2 APC 2 IEC 61482-2 APC 1	EN ISO 11612 A1/B1/ C1/F1	EN ISO 11611 Class 1 A1	EN 1149-5	EN 13034 Type 6	REGULAR SIZES, IN STOCK
1											S-2XL More sizes available see page 248
2		<b>2112</b>	fluorescent yellow/navy								One size More sizes available see page 248
3											

Certification only in combination with parka

**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



Wristband adjustable via  
hook&loop fastener

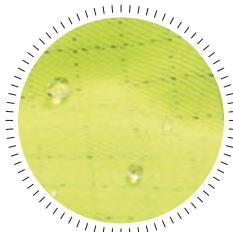
#### PARKA 7KA

Arc flash class 2

Part number: **05019 19071 013 2112**

Garment weight: approx. 1,665g

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



1 to 3 |  
100 % water-repellent

#### BIB TROUSERS 4ka

Arc flash class 1

Part number: 05019 29000 006 2112

Garment weight: approx. 1,060 g

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



Reflective stripes, suitable for industrial laundry

Foot width adjustable with PCV-Zip thanks to additional material



#### HOOD

Arc flash class 2

Part number: 05019 79006 001 2112

Garment weight: approx. 200 g

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



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

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

**OUTER PLY: ATPV VALUE:** 22.2 cal/cm<sup>2</sup> · 929.3 kJ/m<sup>2</sup> · **HAF VALUE:** 87.8 %

**HABETEX®**  
**HI-VISION®**

# HB-ArcFlash Pro

Relaunch of a bestseller: jackets, pants, and dungarees from our large HB-MODarc&vis® range have been completely redesigned and optimized. The new high-performance HB-ArcFlash Pro collection impresses with its top design featuring navy contrasting sections. Unchanged: the proven lightweight and durable fabric. Together with the new ergonomic cut and mechanical stretch inserts, it ensures comfortable working with freedom of movement even during challenging tasks.

ITEM	COLOUR	COLOUR NO.	COLOUR NAME	TEST	IEC 61482-2	EN ISO 11612	EN ISO 11611	EN 1149-5	EN 13034	EN 14404-4	PRO	REGULAR SIZES, IN STOCK	
1, 2		2112	fluorescent yellow/navy	EN ISO 20471 Blouson: Class 2 Trousers, Bib and braces: Class 1	IEC 61482-2 1-ply: APC 1 2-ply: APC 2* * Front part and sleeves/ front trousers	EN ISO 11612 A1+A2/B1/ C1/F1	EN ISO 11611 Class 1 A1+A2	EN 1149-5	EN 13034 Type 6	EN 14404-4	EN ISO 15797 Washing temperature 60°C		46-58, 94-110 More sizes available see page 248
3		3379	fluorescent yellow/navy/black										

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



## BLOUSON 4kA

Arc flash class 1

Part number: **01072 10086 000 2112**

Garment weight: approx. 950 g

## BLOUSON 7kA/4kA

Arc flash class 2

Part number: **01072 10086 001 2112**

Garment weight: approx. 1,135 g

Two-coloured • stand-up collar with covered snap fastener • covered 2-way zipper • 2 front pockets with flap and covered snap fasteners • 1 inside pocket on the left with hook&loop fastener • 2 side pockets with zipper • ergonomic sleeve shape • adjustable sleeve hem with covered snap fastener • cut-on waistband with covered snap fastener • standard pictograms on the front as FR direct embroidery • suited for industrial laundry.



METAL-FREE



light



**1 and 2** | Jacket and trousers worn together equal **EN ISO 20471** **high-visibility class 3** from size 40/20.

**2 |**

**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: **01072 20149 000 2112**

Garment weight: approx. 820 g

#### TROUSERS 7kA/4kA

Arc flash class 2

Part number: **01072 20149 001 2112**

Garment weight: approx. 955 g

Two-coloured • attached waistband with covered button closure • slit with zip-fly • two slanted pockets • 1 hip pocket on the right with flap • one bellows pocket on the left with additional pen pocket and mobile phone pocket – each with flap and covered snap fastener • 1 pocket for ruler on the right with attached pocket for utensils and flap • knee pad pockets • flame-retardant reflective stripes • suitable for industrial laundry.

#### BIB AND BRACE TROUSERS 4kA

Arc flash class 1

Part number: **01072 50110 000 3379**

Garment weight: approx. 960 g

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

Arc flash class 2

Part number: **01072 50110 001 3379**

Garment weight: approx. 1,095 g

Two-coloured • stretch straps with fix-lock clip and loop for fixation • high-reach kidney protection • 2 stretch gussets at side • slit with zip • 2 slant pockets • 1 bib pocket and hip pocket on the right with flap • bellows pocket on the left with pen pocket and mobile phone pocket inside – with flap and covered snap fastener • 1 ruler pocket on the right with additional pocket for utensils on top and flap • knee pad pockets • flame-retardant reflective stripes • suitable for industrial laundry.

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

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

**4kA: ATPV VALUE:** 13.0 cal/cm<sup>2</sup> . **ELIM:** 9.6 cal/cm<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 %

**HABETEX®**

**HI-VISION®**

# HB-ArcFlash Pro

The new HB-ArcFlash Pro softshell jacket is windproof, breathable and highly functional. It offers multi-risk protection with sweat protection class 2 and warning protection class 3, with optimum wearing comfort thanks to the elastic material and segmented reflective stripes. HB-ArcFlash Pro is of course also available for women with a perfect ergonomic fit.

ITEM	COLOUR	COLOUR NO.	COLOUR NAME	IEC 61482-2 APC 2	EN ISO 11612 A1/B1/ C2/F2	EN ISO 11611 Class 2 A1	EN 1149-5	EN 13034 Type PB [6]	EN 14404-4	PRO	REGULAR SIZES, IN STOCK
1		17	fluoresc. yellow	EN ISO 20471 Class 3	IEC 61482-2 APC 2	EN ISO 11612 A1/B1/ C2/F2	EN ISO 11611 Class 2 A1			-	S-2XL More sizes available see page 248
18			fluoresc. orange								
2		2112	fluorescent yellow/navy	EN ISO 20471 Blouson: Class 2	IEC 61482-2 1-ply: APC 1	EN ISO 11612 A1+A2/B1/ C1/F1	EN ISO 11611 Class 1 A1+A2	EN 1149-5	EN 13034 Type PB [6]		Regular sizes, available: 36-46, 18-23, 72-92
3		3379	fluorescent yellow/navy/ black	Trousers: Class 1	2-ply: APC 2* *Front part and sleeves/ front trousers				EN 14404-4	EN ISO 15797 Washing temperature 60°C	More sizes available see page 248

**FIELDS OF APPLICATION:** Plant responsible, network technicians, power suppliers, engineers, municipal utilities, plant construction, electricians, track work, infrastructure, electrification, transport and construction companies



## SOFTSHELLJACKET 7kA

Arc flash class 2

Part number: **10009 19102 000 + COLOUR-NO.**

Garment weight: approx. 1,080g

Single-coloured • high stand-up collar with hook&loop fastener • closure band with covered zipper • Napoleon pocket on the left and 2 side pockets, each with zipper • 2 inside pockets • sleeve hem with knitted cuff inside • FR reflective stripes in body language • standard pictograms as FR direct embroidery.



2 and 3 |



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



Flame retardant reflective stripes suited for industrial laundry



3 |



Useful pocket for utensils

#### LADIES BLOUSON 4kA

Arc flash class 1

Part number: **01072 10154 000 2112**

Garment weight: approx. 850g

#### LADIES BLOUSON 7kA/4kA

Arc flash class 2

Part number: **01072 10154 001 2112**

Garment weight: approx. 1,020g

Two-coloured • stand-up collar with covered snap button • covered 2-way zipper • 2 front pockets with flap and covered snap buttons • 1 inside pocket on the left with hook&loop fastener • 2 side pockets with zipper • ergonomic sleeves, sleeve hem adjustable with covered snap button • cut-on waistband with covered snap button • standard pictograms on the front as FR direct embroidery • suited for industrial laundry.

#### LADIES TROUSERS 4kA

Arc flash class 1

Part number: **01072 20059 000 2112**

Garment weight: approx. 780g

#### LADIES TROUSERS 7kA/4kA

Arc flash class 2

Part number: **01072 20059 001 2112**

Garment weight: approx. 890g

Two-coloured • attached waistband with covered button • slit with zip-fly • 2 slant pockets • 1 hip pocket on the right with flap • 1 bellow pocket on the left with additional pen pocket and mobile phone pocket – with flap and covered snap fastener • 1 pocket for ruler on the right with attached pocket for utensils and flap • knee pad pockets • flame-retardant reflective stripes • suitable for industrial laundry.

1 | **MATERIAL:** 40 % MODACRYLIC, 32 % COTTON, 16 % POLYESTER, 11 % POLYURETHANE, 1 % CARBON

**FABRIC WEIGHT:** approx. 385 g/m<sup>2</sup> . **ATPV VALUE:** 23.15 cal/cm<sup>2</sup> .

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

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

**4kA: ATPV VALUE:** 13.0 cal/cm<sup>2</sup> . **ELIM:** 9.6 cal/cm<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 %

**HABETEX®**  
**HI-VISION®**

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

ITEM	COLOUR	COLOUR-NO.	COLOUR NAME	EN ISO 20471 Class 2	EN ISO 20471 Class 1	IEC 61482-2 1-ply: APC 1 2-ply: APC 2* *Front part and sleeves/ front trousers 1	EN ISO 11612 A1/B1/ C1/F1	EN ISO 11611 Class 1 A1	EN 1149-5	EN 13034 Type 6	EN ISO 15797 Washing temperature 60 °C	PRO PROTEC	REGULAR SIZES, IN STOCK
1		4027	fluorescent yellow/ dark blue/navy	EN ISO 20471 Class 2									46-58, 23-29, 94-110 More sizes available see page 248
2	 	4027 4028	fluorescent yellow/ dark blue/navy dark blue/fluorescent yellow/navy		EN ISO 20471 Class 1	IEC 61482-2 1-ply: APC 1 2-ply: APC 2* *Front part and sleeves/ front trousers 1	EN ISO 11612 A1/B1/ C1/F1	EN ISO 11611 Class 1 A1	EN 1149-5	EN 13034 Type 6	EN ISO 15797 Washing temperature 60 °C		36-46, 18-23, 72-92 (Regular sizes, available) More sizes available see page 248
3		4027	fluorescent yellow/ dark blue/navy										

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



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



**2 and 3** | Elastic elements at the sides of the waistband, in the pocket opening, at the back of the trousers and in the crotch provide relief during kneeling activities



**2 and 3** | Partially robust and dirt-resistant areas on knee pockets and inside of the leg bottom

#### TROUSERS 4kA

Arc flash class 1

Part number: **01288 20156 002 4027 // 01288 20156 000 4028**

Garment weight: approx. 770 g

#### TROUSERS 7kA/4kA

Arc flash class 2

Part number: **01288 20156 003 4027 // 01288 20156 001 4028**

Garment weight: approx. 950 g

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

#### LADIES TROUSERS 4kA

Arc flash class 1

Part number: **01288 20160 002 4027**

Garment weight: approx. 735 g

#### LADIES TROUSERS 7kA/4kA

Arc flash class 1

Part number: **01288 20160 003 4027**

Garment weight: approx. 880 g

Two-coloured • ergonomic waistband • reinforced belt loops • slit with zip-fly • 2 slant pockets with reflective elements • 2 hip pockets with flap and press buttons • 1 ergonomic pocket for folding rule on the right and 1 leg pocket on the left - each with with flap and hanging free, the leg pocket as cargo pocket and with additional handy pocket inside • knee pockets with hook&loop fastener • the waistband, the inside of the slant pockets, the saddle in the back and the crotch are made with elastic material • segmented reflective stripes.

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

**FABRIC WEIGHT:** approx. 260 g/m<sup>2</sup> (2-ply: + approx. 180 g/m<sup>2</sup>)

**4kA: ATPV VALUE:** 11.0 cal/cm<sup>2</sup> . 460.24 kJ/m<sup>2</sup> . **ELIM:** 10.0 cal/cm<sup>2</sup> .

**7kA/4kA: ATPV VALUE:** 31.0 cal/cm<sup>2</sup> . 1297.04 kJ/m<sup>2</sup> . **ELIM:** 18.0 cal/cm<sup>2</sup>

**HB-4Energy**

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

ITEM	COLOUR	COLOUR-NO.	COLOUR NAME	IEC 61482-2 1-ply: APC 1	EN ISO 20471 Class 1	IEC 61482-2 2-ply: APC 2* *Front part and sleeves/ front trousers 1	EN ISO 11612 A1/B1/ C1/F1	EN ISO 11611 Class 1 A1	EN 1149-5	EN 13034 Type 6	EN 17353 Type B2	PRO EN 61482-2 1-ply: APC 1	REGULAR SIZES, IN STOCK
3		4027	fluorescent yellow/ dark blue/navy										46-58, 94-110 More sizes available see page 248
3		4028	dark blue/fluorescent yellow/navy										
4		48	dark blue	IEC 61482-2 APC 1	EN ISO 11612 A1/B1/ C1/F1	EN ISO 11611 Class 1 A1							

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



#### BIB AND BRACE TROUSERS 4kA

Arc flash class 1

Part number: 01288 50106 002 4027 // 01288 50106 000 4028

Garment weight: approx. 920 g

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

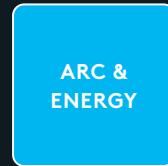
#### BIB AND BRACE TROUSERS 7kA/4kA

Arc flash class 2

Part number: 01288 50106 003 4027 // 01288 50106 001 4028

Garment weight: approx. 1,050 g

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



Elastic elements on the sides of the waistband, in the pocket opening, on the back of the pants, in the crotch, and on the knees provide relief when working on your knees

4



Durable and dirt-resistant material on the knee pockets and lower leg



Ergonomic folding rule pocket with flap



Leg pocket; free-hanging at the bottom with flap, as a bellows pocket on the left, with inner cell phone pocket

## TROUSERS 4kA

Arc flash class 1

Part number: 01288 20156 004 48

Garment weight: approx. 850g

Single-coloured • raised waistband at the back • slit with zipper • 2 wing pockets with trim and reflective elements • 2 back pockets with flaps and snap fasteners • 1 ergonomic folding rule pocket on the right and 1 leg pocket; free-hanging at the bottom with flap, as a bellows pocket on the left, with additional inner cell phone pocket • knee pocket with hook&loop fastener • elastic inserts on the sides of the waistband, in the pocket openings, on the back yoke, in the crotch area and around the knees • durable and dirt-resistant areas on the knee pockets and lower inner leg • segmented reflective stripes.

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

**FABRIC WEIGHT:** approx. 260 g/m<sup>2</sup> (2-ply: + approx. 180 g/m<sup>2</sup>)

**4kA: ATPV VALUE:** 11.0 cal/cm<sup>2</sup> . 460.24 kJ/m<sup>2</sup> . **ELIM:** 10.0 cal/cm<sup>2</sup> .

**7kA/4kA: ATPV VALUE:** 31.0 cal/cm<sup>2</sup> . 1297.04 kJ/m<sup>2</sup> . **ELIM:** 18.0 cal/cm<sup>2</sup>

**HB-4Energy**

# HB-MultiPro FR®

Windproof, water-repellent and breathable:

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

ITEM	COLOUR	COLOUR-NO.	COLOUR NAME	EN ISO 20471 Class 3	EN 343 Class 3/4	IEC 61482-2 APC 2	EN ISO 11612 A1/B1/C1/ E1/F1	EN ISO 11611 Class 2 A1	EN 1149-5	EN 13034 Type PB [6]	-	REGULAR SIZES, IN STOCK
1	2425		fluoresc. yellow/ stone grey									S-2XL More sizes available see page 248
	2143		fluoresc. yellow/ dark blue	EN ISO 20471 Class 3	EN 343 Class 3/4	IEC 61482-2 APC 2	EN ISO 11612 A1/B1/C1/ E1/F1	EN ISO 11611 Class 2 A1	EN 1149-5	EN 13034 Type PB [6]	-	
	2408		fluoresc. orange/ stone grey									
	2147		fluoresc. orange/ dark blue									
2	17		fluoresc. yellow									One size More sizes available see page 248
	18		fluoresc. orange									

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



Side pockets with  
zipper

## PARKA 7kA

Arc flash class 2

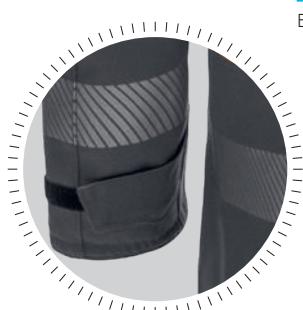
Part number: 01121 19018 000 + COLOUR NO.

Garment weight: approx. 1,780g

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

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





Segmented reflective stripes,  
flame retardant



## HOOD

Arc flash class 2

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

Garment weight: approx. 195 g

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

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

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

**ATPV VALUE:** 8.8 cal/cm<sup>2</sup> · 368.19 kJ/m<sup>2</sup> · **ELIM:** 8.0 cal/cm<sup>2</sup>

**HABETEX®**

# HB-MultiPro FR®

Just like the parka, the dungarees have many convenient features such as a moisture barrier and numerous well-designed pockets. For even more effective protection against the cold, a matching fleece jacket can be added or, if required, worn on its own in the 4kA or 7kA version. Our new high-visibility fleece jacket certified acc. to EN ISO 20471 class 3 is the perfect outfit when working in the dark.

ITEM	COLOUR	COLOUR-NO.	COLOUR NAME									REGULAR SIZES, IN STOCK	
3		2425	fluoresc. yellow/stone grey		EN ISO 20471 Class 1	EN 343 Class 3/4	IEC 61482-2 APC 2		EN ISO 11612 A1/B1/C1/E1/F1	EN ISO 11611 Class 2 A1			
		2143	fluoresc. yellow/dark blue									EN 13034 Type PB [6]	
		2408	fluoresc. orange/stone grey									EN 1149-5	
		2147	fluoresc. orange/dark blue									-	
4		48	dark blue	-		IEC 61482-2							
		528	dark grey	-		1-ply: APC 1	EN ISO 11612 A1/B1/C2/F1	-				EN 14058 Class 1	
5		17	fluoresc. yellow	EN ISO 20471 Class 1		2-ply: APC 2							

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





ARC &  
ENERGY



3 | Effective protection against the cold: combine the fleece jacket with our HB-MODarc&vis® parka page 50 and HB-MultiPro FR® page 60.



4 and 5 | Stand-up collar with fastening loop for hooking into parka HB-MultiPro FR® – for additional cold protection



4 |



Can be zipped-in into the parkas

5 |



High-visibility acc. to EN ISO 20471 class 3

#### FLEECE JACKET 4kA

Arc flash class 1

Part number: **07015 19019 000 + COLOUR NO.**

Garment weight: approx. 970 g

#### FLEECE JACKET 7kA

Arc flash class 2

Part number: **07015 19019 001 + COLOUR NO.**

Garment weight: approx. 1,290 g

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

#### FLEECE JACKET 4kA

Arc flash class 1

Part number: **07015 19021 000 17**

Garment weight: approx. 1,010 g

#### FLEECE JACKET 7kA

Arc flash class 2

Part number: **07015 19021 001 17**

Garment weight: approx. 1,300 g

Single-coloured • stand-up collar with fastening tab for attaching to the outer jacket, can be worn high-necked or open • covered zipper • 2 side pockets with covered zip • hem adjustable with drawstring • sleeves with knitted cuffs and 2 fastening tabs each for attaching to the outer jacket • reflective stripes in bodylanguage for perfect all-round visibility • standard pictograms directly embroidered on the front.

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

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

**ATPV VALUE:** 8.8 cal/cm<sup>2</sup> · 368.19 kJ/m<sup>2</sup> · **ELIM:** 8.0 cal/cm<sup>2</sup>

4 | 5 | **MATERIAL:** 48% MODACRYLIC, 32% COTTON, 18% POLYESTER, 2% CARBON // Fleece

**FABRIC WEIGHT:** approx. 360 g/m<sup>2</sup> (2-ply: + approx. 195 g/m<sup>2</sup>)

**4kA: ATPV VALUE:** 10.0 cal/cm<sup>2</sup> · 418.68 kJ/m<sup>2</sup> · **ELIM:** 10.0 cal/cm<sup>2</sup>

**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	IEC 61482-2 APC 1	EN ISO 11612 A1/B1/C1/F1	EN ISO 11611 Class 1 A1	EN 1149-5	REGULAR SIZES, IN STOCK
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 More sizes available see page 248

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



## 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 high-visibility protective clothing acc. to EN ISO 20471 and EN 17353.



21 TO WEAR

ARC & ENERGY



2 |



#### 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 high-visibility protective clothing acc. to EN ISO 20471 and EN 17353.

#### BIB AND BRACE TROUSERS 4kA

Arc flash class 1

Part number: 01031 50026 014 2030

Garment weight: approx. 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 high-visibility protective clothing acc. to EN ISO 20471 and EN 17353.

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

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

**ATPV VALUE:** 9.9 cal/cm<sup>2</sup> · 414.4 kJ/m<sup>2</sup>

**HAF VALUE:** 79.0 %

DuPont™  
**NOMEX®**

# NOMEX® Comfort

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

ITEM	COLOUR	COLOUR NO.	COLOUR NAME	IEC 61482-2 APC 1	EN ISO 11612 A1/B1/C1/F1	EN 1149-5	REGULAR SIZES, IN STOCK
1							46-58, 94-110
2, 3	■	41	royal	IEC 61482-2 APC 1	EN ISO 11612 A1/B1/C1/F1	EN 1149-5	More sizes available see page 248

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



Front pocket with flap and covered snap fastener

Inner front pocket with flap and snap fasteners

## BLOUSON 4kA

Arc flash class 1

Part number: **01042 10011 001 41**

Garment weight: approx. 545 g

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



ARC &  
ENERGY



2 |



3 |



#### JACKET 4ka

Arc flash class 1

Part number: **01042 10003 001 41**

Garment weight: approx. 580g

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.

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

**ATPV VALUE:** 9.0 cal/cm<sup>2</sup> • 376.8 kJ/m<sup>2</sup>

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

**HAF VALUE:** 71.6 %

#### COAT 4ka

Arc flash class 1

Part number: **01042 40002 002 41**

Garment weight: approx. 720g

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.

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	IEC 61482-2 APC 1	EN ISO 11612 A1/B1/C1/F1	EN 1149-5	REGULAR SIZES, IN STOCK
1   2   3		41	royal				46-58, 94-110 More sizes available see page 248
<b>FIELDS OF APPLICATION:</b> Plant engineering and construction, energy suppliers, electric installation, public services, electricians							



## TROUSERS 4kA

Arc flash class 1

Part number: **01042 20003 006 41**

Garment weight: approx. 510 g

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

## BIB AND BRACE TROUSERS 4kA

Arc flash class 1

Part number: **01042 50002 012 41**

Garment weight: approx. 655 g

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

ARC &  
ENERGY



#### 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>

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

**HAF VALUE:** 71.6 %

DuPont™  
**NOMEX®**

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

ITEM	COLOUR	COLOUR NO.	COLOUR NAME	IEC 61482-2	EN ISO 11612	EN 1149-5	EN 13034	EN ISO 15797	REGULAR SIZES, IN STOCK
1   , 2   , 3		2027	royal/navy	 1-ply: APC 1 2-ply: APC 2* *Front part and sleeves/ front trousers	 A1/B1/C1/F1		 Type 6		46-58, 94-110 More sizes available see page 248

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





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



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

#### TROUSERS 4kA

Arc flash class 1

Part number: 01043 20000 004 2027

Garment weight: approx. 650g

#### TROUSERS 7kA/4kA

Arc flash class 2

Part number: 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: 01043 50100 004 2027

Garment weight: approx. 800g

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

Arc flash class 2

Part number: 01043 50103 000 2027

Garment weight: approx. 920g

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

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

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

**4kA: ATPV VALUE:** 9.0 cal/cm<sup>2</sup> • 376.8 kJ/m<sup>2</sup> • **HAF VALUE:** 71.6 %

**INOTEC**  
DuPont™  
**NOMEX**®



Model: Robin, Disposition

Collection: HB-WeldersFORCE®

Model: Irina, Assistance to the COO

Collection: HB-4welders® 2.0

HEAT, SPLASHES & WELDING

WHY NOT ENJOY  
A SENSE OF LEISURE EVEN WHEN FACING  
EXTREME CHALLENGES?

If there's one job that can be tough at times, it's yours.

Heat, flames, splashes: they are part of your everyday life.

Luckily, our Heat, Splashes & Welding range offers the perfect clothing to protect you.

With such a wide range and variety of options, you're sure to find the outfit  
that's right for you and your job. A modern look, high-quality workmanship and comfort  
that sometimes makes you forget you are at work.



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

ITEM	COLOUR	COLOUR NO.	COLOUR NAME	EN ISO 11611 Class 2 A1	EN ISO 11612 A1/B1/C1/E3/F1	EN ISO 15797	PRO -FLAME-RETARDANT	REGULAR SIZES, IN STOCK
1   2   3	■	52	medium grey					46–58, 23–29, 94–110 More sizes available see page 248

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



#### JACKET

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

HEAT,  
SPLASHES &  
WELDING



## TROUSERS

Welding protection class 2

Part number: **01272 20084 003 52**

Garment weight: approx. 905g

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 2

Part number: **01272 50062 001 52**

Garment weight: approx. 1,105g

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. 470 g/m<sup>2</sup>

Modern and comfortable PPE in several colour combinations:

With HB-WeldersFORCE®, we are adding two specialised fabrics for welding protection to our range.

Two qualities for flexible use: a 450 g/m<sup>2</sup> version for permanent welding work with larger amounts of sparks and higher radiant heat, and a lighter 350 g/m<sup>2</sup> version for occasional welding work with smaller sparks.

ITEM	COLOUR	COLOUR NO.	COLOUR NAME	MATERIAL WEIGHT					REGULAR SIZES, IN STOCK		
1		2027	royal/navy	350 g/m <sup>2</sup>					46–58, 23–29, 94–110  More sizes available see page 248		
		2041	navy/royal								
		2043	navy/medium grey	450 g/m <sup>2</sup>							
		2382	anthracite/medium grey								
2		45	navy	350 g/m <sup>2</sup>							
		58	anthracite	450 g/m <sup>2</sup>							

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



Specially arranged pockets make it easier to reach in with gloves

## BLOUSON 350

Welding protection class 1

Part number: 01144 10000 015 + COLOUR NO.

Garment weight: 820g

## BLOUSON 450

Welding protection class 2

Part number: 01209 10000 015 + COLOUR NO.

Garment weight: 1.070g

Two-coloured • stand-up collar • front with snap fasteners, covered on both sides • 2 breast pockets and 2 integrated side pockets, each with flap and covered snap fastener • FR let-in collar • sleeve hem width adjustable with plastic snap fastener • standard pictograms as FR direct embroidery on the front • manufactured in roof tile design.





2 | Attached knee pockets and the free-hanging folding rule pocket make it easier to work when kneeling



2 |



#### TROUSERS 350

Welding protection class 1

Part number: 01144 20000 012 + COLOUR NO.

Garment weight: 765g

#### TROUSERS 450

Welding protection class. 2

Part number: 01209 20000 012 + COLOUR NO.

Garment weight: 980g

Single-coloured • attached waistband with elastic band on both sides and button fastening on the outside • fly with covered zipper • 2 wing pockets • 2 back pockets, 1 ruler pocket on the right • each with flap and covered snap fastener • 1 mobile phone pocket on the left with flap and hook&loop fastener • knee pockets with covered hook&loop fastener • manufactured in roof tile design.

**MATERIAL:** 79 % COTTON, 20 % POLYESTER, 1 % CARBON

**FABRIC WEIGHT:** approx. 350 g/m<sup>2</sup> • approx. 450 g/m<sup>2</sup>

Both versions are designed in the same look to ensure that employees are uniformly equipped in line with requirements. The flame-retardant and reinforced cotton ensures good wearing properties and the addition of polyester for greater strength and dimensional stability, so that the jacket, trousers and bib&brace can withstand many industrial washes.

ITEM	COLOUR	COLOUR NO.	COLOUR NAME	MATERIAL WEIGHT					REGULAR SIZES, IN STOCK
1		2027	royal/navy	350 g/m <sup>2</sup>		EN ISO 11611 Class 1 A1+A2			
		2041	navy/royal						
		2043	navy/medium grey			EN ISO 11611 Class 2 A1+A2			
		2382	anthracite/medium grey	450 g/m <sup>2</sup>	EN ISO 11612 A1+A2/B1/C1/ E2/F1	EN 1149-5	EN ISO 15797		46-58, 23-29, 94-110
2  , 3		45	navy	350 g/m <sup>2</sup>		EN ISO 11611 Class 1 A1+A2			
		58	anthracite	450 g/m <sup>2</sup>		EN ISO 11611 Class 2 A1+A2			More sizes available see page 248

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



#### BIB AND BRACE TROUSERS 350

Welding protection class 1

Part number: **01144 50100 000 + COLOUR NO.**

Garment weight: 900g

#### BIB AND BRACE TROUSERS 450

Welding protection class 2

Part number: **01209 50100 000 + COLOUR NO.**

Garment weight: 1.165g

Single-coloured • flame-retardant stretch braces with Fixlock buckles • straight kidney protection • 2 side slits with knitted gusset • 2 side seam pockets • 1 outer bib pocket, 2 back pockets, 1 ruler pocket on the right • each with flap and covered snap fastener • 1 cell phone pocket on the left with flap and hook&loop fastener • slit processing with covered zipper • knee pockets with covered hook&loop fastener • manufactured in roof tile construction.

HEAT,  
SPLASHES &  
WELDING



## POSSIBLE COLOUR COMBINATIONS – AVAILABLE IN TWO DIFFERENT FABRIC WEIGHTS

1|



2|

Thanks to the smooth surface and elaborate roof tile manufacture, beads of sweat and metal splashes do not stick to the clothing, but roll off downwards.

**MATERIAL:** 79 % COTTON, 20 % POLYESTER, 1 % CARBON

**FABRIC WEIGHT:** approx. 350 g/m<sup>2</sup> · approx. 450 g/m<sup>2</sup>

# 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	EN ISO 11611 Class 2 A1+A2	EN ISO 11612 A1+A2/B1/C1/ E3/F1	EN 1149-5	IEC 61482-2 APC 1	EN ISO 15797	REGULAR SIZES, IN STOCK
1		2205	dark navy/medium grey						46-58, 23-29, 94-110
2, 3		458	dark navy	EN ISO 11611 Class 2 A1+A2	EN ISO 11612 A1+A2/B1/C1/ E3/F1	EN 1149-5	IEC 61482-2 APC 1	EN ISO 15797	More sizes available see page 248
		52	medium grey						

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



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.



## 21 TO WEAR

Ladies trousers – in just 21 days delivered.  
Part number: 01237 20144 011 + COLOUR NO.

458 dark navy 52 medium grey



Side entry with elastic knit wedge

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



Flame-retardant stretch braces with useful fixlock buckle



### 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.



2 and 3 |  
Ruler pocket with additional pen pocket

### 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>

HB-4welders®



Comfortable, resilient and flexible: HB-ComFlex® combines elastic denim with resistant high-tech fabric in particularly exposed areas, for permanent intensive welding and heavy flex works as well as risky work situations such as overhead welding. The elastic denim provides the necessary freedom of movement and high wearing comfort. Worn solo, the denim is suitable for less exposed areas and medium to heavy welding work.

ITEM	COLOUR	COLOUR NO.	COLOUR NAME	PROTECTION	REGULAR SIZES, IN STOCK
1		397	dark denim	 EN ISO 11612 A1+A2/B1/C1/E2	46-58, 23-29, 94-110
1, 2		2404	dark denim/dark navy	 EN ISO 11611 Class 2 A1+A2 EN ISO 15797 Washing temperature 60°C	More sizes available see page 248

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



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



## JACKET

Welding protection class 2  
Part number: **01281 10000 003 397**  
(Denim)

Garment weight: approx. 960g

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

Garment weight: approx. 1,040g  
With additional zip at the front and abrasion areas made of high-tech fabric.

Single-coloured/two-coloured • stand-up collar with snap fastener • fastening strip with snap fasteners covered on both sides • 2 breast pockets with flap and covered snap fasteners • 2 set-in side pockets with zip • sleeve hem width adjustable with snap fastener • FR leasing label • standard pictograms as FR direct embroidery on the front • roof tile manufacture.



## TROUSERS

Welding protection class 2

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

Garment weight: approx. 930g

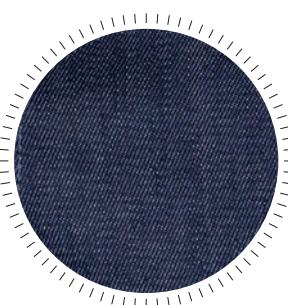
Part number: **01281 20000 006 2404**

(Denim + high-tech fabric)

Garment weight: approx. 940g

Trim of high-tech fabric on front trousers • knee pocket with adjustable hook & loop fastener • pocket pouch of folding rule • leg pocket hanging free.

Single-coloured/two-coloured • set-in waistband with side elastic band and patent button to the outside • slit with zip • 2 wing pockets • 2 hip pockets, 1 folding rule pocket on the right and one leg pocket on the left, each with flap and covered snap fastener • mobile phone pocket in left leg pocket • ergonomically shaped knees due to darts • roof tile manufacture.



Elastic denim allows comfortable working with every movement

**MATERIAL DENIM:** 94 % COTTON, 4 % POLYESTER, 2 % ELASTANE . **FABRIC WEIGHT:** approx. 425 g/m<sup>2</sup> .  
**MATERIAL HIGH-TECH FABRIC:** 40 % ARAMIDE, 30 % MODACRYLIC, 20 % LYOCELL, 9 % POLYAMIDE, 1 % CARBON .  
**FABRIC WEIGHT:** approx. 430 g/m<sup>2</sup>

HB-ComFlex® is a modern industrial washable mix&match PPE that can be adapted to different areas of use and workplaces. All jacket, trouser and bib&brace garments can be combined with each other.

The collection is complemented by a vegan welding apron that meets the requirements of the leasing industry to a particularly high degree.

ITEM	COLOUR	COLOUR NO.	COLOUR NAME	FLAME RETARDANT	WATER PROOF	REGULAR SIZES, IN STOCK	
3		<b>397</b>	dark denim		EN ISO 11612 A1+A2/B1/C1/E2	46-58, 23-29, 94-110 More sizes available see page 248	
4		<b>2404</b>	dark denim/dark navy		EN ISO 11611 Class 2 A1+A2		EN ISO 15797 Washing temperature 60°C 46/48-58/60 More sizes available see page 248
4		<b>458</b>	dark navy				

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



## BIB AND BRACE TROUSERS

Welding protection class 2

Part number: **01281 50100 008 397** (Denim)

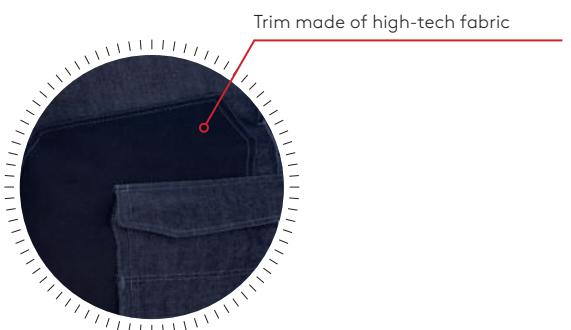
Garment weight: approx. 1,040g

Part number: **01281 50100 007 2404** (Denim+high-tech fabric)

Garment weight: approx. 1,190g

Trim of high-tech fabric on front trousers.

Single-coloured/two-coloured • flame-retardant stretch straps with fixlock buckle • high-cut kidney protection • 2 comfortable side entrances made of knitted material • 2 wing pockets • 2 back pockets, one reinforced ruler pocket on the right and one reinforced leg pocket on the left – each with flap and covered snap fastener • mobile phone pocket in left leg pocket • shaped knees due to darts • roof tile manufacture.





The vegan welding apron  
for industrial laundry



Back belt adjustable with  
press studs

#### APRON WITH SLEEVES

Welding protection class 2

Part number: **01285 70069 000 458** (High-tech fabric)

Garment weight: approx. 1,020 g

Single-coloured • stand-up collar with concealed press stud •  
polo closure with concealed press studs • sack yoke • FR leasing  
collar • back belt adjustable with press studs • sleeve hem width  
adjustable with inside press stud • standards pictograms as  
FR direct embroidery • roof tile manufacture.

**MATERIAL DENIM:** 94 % COTTON, 4 % POLYESTER, 2 % ELASTANE . **FABRIC WEIGHT:** approx. 425 g/m<sup>2</sup> .

**MATERIAL HIGH-TECH FABRIC:** 40 % ARAMIDE, 30 % MODACRYLIC, 20 % LYOCELL, 9 % POLYAMIDE, 1 % CARBON .

**FABRIC WEIGHT:** approx. 430 g/m<sup>2</sup>

# ► SECAN® Securo 420

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

ITEM	COLOUR	COLOUR NO.	COLOUR NAME	EN ISO 11611 Class 2 A1+A2	EN ISO 11612 A1+A2/B1/C1/ E3/F1	EN 1149-5	PRO TECHNOLOGY	REGULAR SIZES, IN STOCK
1   2   3	■	52	medium grey					46-58, 23-29, 94-110 More sizes available see page 248

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



## 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>



# HB-Iron Pro

Our bestseller for protection against liquid iron splashes. The SECAN® quality guarantees flame resistance up to 50 industrial washes and the reflective strips increase visibility. The ergonomic fit and modern design are just as impressive as the performance with maximum protection against heat radiation, welding splatters and large quantities of molten iron. NEW: a matching shirt made of lighter fabric, also with roof tile manufacture.

ITEM	COLOUR	COLOUR NO.	COLOUR NAME	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 Type B2	EN ISO 15797	PRO PERFORMANCE	REGULAR SIZES, IN STOCK
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 Type B2	EN ISO 15797		46-58, 23-29, 94-110 More sizes available see page 248
4		22	pure orange	EN ISO 11612 A1+A2/B1/C1/ E1/F1	EN ISO 11611 Klasse 1 A1+A2	-	-	-	-		39/40-47/48 More sizes available see page 248

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



## JACKET

Liquid metal Fe

Part number: 01248 10000 011 3011

Garment weight: approx. 1,070g

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

## Higher visibility:

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



## TRousERS

Liquid metal Fe

Part number: 01248 20000 000 3011

Garment weight: approx. 840g

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



## 21toWEAR

Trousers and bib and brace trousers also available with knee pockets – in just 21 days delivered.  
 Trousers, knee pockets: 01248 20000 008 3011  
 Bib and brace trousers, knee pockets: 01248 50100 006 3011



### BIB AND BRACE TROUSERS

Liquid metal Fe

Part number: 01248 50100 005 3011

Garment weight: approx. 1,100 g

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

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



### SHIRT

Liquid metal Fe

Part number: 01116 60026 005 + COLOUR NO.

Garment weight: approx. 495 g

Single-colored • Comfort fit • turn-down collar with bar and covered snap fastener • collar with additional plastic snap fastener to close the raised collar • closure with snap fasteners covered on both sides • ergonomically shaped sleeves • chest pockets with flaps and sleeve cuffs with gusset, each with covered snap fasteners • FR reflective stripes with yellow backing, suited for industrial laundry • no high-visibility protective acc. to EN ISO 20471 • FR leasing collar • standard pictograms as FR direct embroidery on right cuff • roof tile manufacture.

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

**FABRIC WEIGHT:** 1| to 3| approx. 420 g/m<sup>2</sup> . 4| approx. 250 g/m<sup>2</sup>



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	PROTECTION	REGULAR SIZES, IN STOCK
1 , 2 , 3  4		45	navy	  	<b>REGULAR SIZES, IN STOCK</b> 46-58, 23-29, 94-110 More sizes available see page 248 46-58 More sizes available see page 248
<b>FIELDS OF APPLICATION:</b> Aluminium working industry, foundries, metalworks, heat exposed workplaces					



#### JACKET

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

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

#### TROUSERS

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

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

HEAT,  
SPLASHES &  
WELDING



3 |



#### 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.

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

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

4 |



#### 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.

**HABETEX®**

# HB-HeavyMetal Pro®

HB-HeavyMetal Pro®, available in two weight classes, is the answer to the special requirements for PPE for working with high temperatures or molten metal. The material has good moisture management and is also very comfortable to wear thanks to its balanced composition. Just like the reflective strips, the fabric is suitable for tumbler and finisher.

ITEM	COLOUR	COLOUR NO.	COLOUR NAME	FABRIC WEIGHT	EN ISO 11612 A1+A2/ B1/C1/D2/ E2/F1	EN ISO 11611 Class 1 A1+A2	EN 1149-5	IEC 61482-2 APC 1	EN 17353 Type B2	PRO SELECT	REGULAR SIZES, IN STOCK
1   2		2080	anthracite grey/ pure orange	approx. 340g/m <sup>2</sup>	EN ISO 11612 A1+A2/ B1/C1/D2/ E2/F1	EN ISO 11611 Class 1 A1+A2					46-58, 23-29, 94-110
		2138	anthracite grey/ petrol	approx. 430g/m <sup>2</sup>	EN ISO 11612 A1+A2/ B1/C1/D3/ E3/F1	EN ISO 11611 Class 2 A1+A2	EN 1149-5	IEC 61482-2 APC 1	EN 17353 Type B2		More sizes available see page 248
		2204	navy/ anthracite grey							EN ISO 15797	

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



## JACKET 340

Liquid metal Al + Fe

Part number: **01221 10000 012 + COLOUR NO.** (340g/m<sup>2</sup>)

Garment weight: approx. 830g

## JACKET 430

Liquid metal Al + Fe

Part number: **01218 10000 012 + COLOUR NO.** (430g/m<sup>2</sup>)

Garment weight: approx. 1,050g

Two-coloured • stand-up collar with covered snap fastener • covered front closure with snap fasteners • 2 attached breast pockets with flaps and covered snap fasteners • 2 side pockets with covered PVC zip • ergonomically formed sleeves • sleeve width adjustable via snap fasteners • segmented FR reflective stripes, suitable for industrial laundry • no high-visibility protective clothing acc. to EN ISO 20471 • leasing neck label • embroidered FR standard pictograms on the front • manufactured with roof tile design.





2



1 and 2

Enjoy more freedom of movement  
thanks to the ergonomic cut

Leg pocket with  
mobile phone  
pocket inside

Knee pockets  
with adjustable  
hook&loop  
fastening

Contrast colour  
details



#### TROUSERS 340

Liquid metal Al + Fe

Part number: 01221 20000 009 + COLOUR NO. (340 g/m<sup>2</sup>)

Garment weight: approx. 730 g

#### TROUSERS 430

Liquid metal Al + Fe

Part number: 01218 20000 009 + COLOUR NO. (430 g/m<sup>2</sup>)

Garment weight: approx. 990 g

Two-coloured • added waistband with buttoning • covered zip fly • 2 side seam pockets • 2 back pockets, 1 ruler pocket on the right and 1 leg pocket on the left – each with flap and covered snap fastener • free hanging pocket pouch of ruler and leg pocket (+ mobile phone pocket inside) • knee pockets with adjustable hook&loop fastener • segmented FR reflective stripes, suitable for industrial laundry • no high-visibility protective clothing acc. to EN ISO 20471 • manufactured with roof tile design.

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

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

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

**HABETEX®**

# HB-HeavyMetal Pro®

The dynamic design of HB-HeavyMetal Pro® in trendy colours and ergonomic features stands for modern PPE with a high protection level. The standard profile also includes increased visibility certified according to EN 17353. The flame-retardant reflective strips are segmented and patched for optimum freedom of movement.

ITEM	COLOUR	COLOUR NO.	COLOUR NAME	FABRIC WEIGHT	EN ISO 11612 A1+A2/ B1/C1/D2/ E2/F1	EN ISO 11611 Class 1 A1+A2	EN ISO 11611 Class 2 A1+A2	EN 1149-5	IEC 61482-2 APC 1	EN 17353 Type B2	EN ISO 15797	PRO SELECTED	REGULAR SIZES, IN STOCK
1   , 2   , 3		2080	anthracite grey/ pure orange	approx. 340g/m <sup>2</sup>	EN ISO 11612 A1+A2/ B1/C1/D2/ E2/F1	EN ISO 11611 Class 1 A1+A2							46-58, 23-29, 94-110 More sizes available see page 248
		2138	anthracite grey/ petrol	approx. 430g/m <sup>2</sup>	EN ISO 11612 A1+A2/ B1/C1/D3/ E3/F1	EN ISO 11611 Class 1 A1+A2	EN ISO 11611 Class 2 A1+A2	EN 1149-5					
		2204	navy/ anthracite grey	approx. 430g/m <sup>2</sup>	EN ISO 11612 A1+A2/ B1/C1/D3/ E3/F1	EN ISO 11611 Class 1 A1+A2							
4		45	navy	approx. 250g/m <sup>2</sup>	EN ISO 11612 A1+A2/ B1/C1/D1/ E2/F1	EN ISO 11611 Class 1 A1+A2							39/40-47/48 More sizes available see page 248
		58	anthracite grey	approx. 250g/m <sup>2</sup>	EN ISO 11612 A1+A2/ B1/C1/D1/ E2/F1	EN ISO 11611 Class 1 A1+A2							

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



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

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



## BIB AND BRACE TROUSERS 340

Liquid metal Al + Fe

Part number: 01221 50100 009 + COLOUR NO. (340g/m<sup>2</sup>)

Garment weight: approx. 900g

## BIB AND BRACE TROUSERS 430

Liquid metal Al + Fe

Part number: 01218 50100 009 + COLOUR NO. (430g/m<sup>2</sup>)

Garment weight: approx. 1,170g

Two-coloured • fix-lock stretch braces • breast bib  
pocket • high-cut kidney protection • one-side access •  
covered zip fly • 2 side seam pockets • 2 back pockets,  
1 ruler pocket on the right and 1 leg pocket on the left -  
each with flap and covered snap fastener • free  
hanging pocket pouch of ruler and leg pocket  
(+ mobile phone pocket inside) • knee pockets with  
adjustable hook&loop fastener • segmented FR  
reflective stripes, suitable for industrial laundry •  
no high-visibility protective clothing acc. to EN ISO 20471 •  
manufactured with roof tile design.

HEAT,  
SPLASHES &  
WELDING



**1 to 3 |**  
**Better visibility**  
thanks to modern  
patched reflective  
stripes, flame  
retardant and suitable  
for industrial laundry,  
certified acc. to  
EN 17353



**2 and 3 |**  
Knee pockets  
with adjustable  
hook&loop  
fastening



#### SHIRT

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

Single-coloured • Comfort Fit • turn-down collar with snap fastener • collar additionally with a plastic snap fastener to close when the collar is turned up • front zipper with covered snap fastener on both sides • preformed sleeves • chest pocket with flap and sleeve cuff with gusset – each with covered snap fastener • FR laundry label • standard pictograms as FR embroidery on right sleeve cuff • manufactured with roof tile design.

**MATERIAL:** 01221 and 01109 50 % COTTON, 39 % MODACRYLIC, 10 % VISCOSE, 1 % CARBON

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

**FABRIC WEIGHT:** approx. 340 g/m<sup>2</sup> (01221) • approx. 430 g/m<sup>2</sup> (01218) • approx. 250 g/m<sup>2</sup> (01109)

**HABETEX®**

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

ITEM	COLOUR	COLOUR NO.	COLOUR NAME	EN ISO 11612 A1+A2/B1/C1/D3/ E3/F1	IEC 61482-2 APC 1	PRO TECHNIQUE	REGULAR SIZES, IN STOCK
1   , 2   , 3   4		48	dark blue	 EN ISO 11612 A1+A2/B1/C1/D3/ E3/F1	 IEC 61482-2 APC 1	 EN ISO 15797	46-58, 23-29, 94-110 More sizes available see page 248 39/40-47/48 More sizes available see page 248

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



#### 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



#### 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.

**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>

#### 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.

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

# ► ACCESSORIES HEAT

Health protection for PPE wearers on hot days:

Our cooling garments reduce heat stress in extreme temperatures. The cooling effect, which lasts for several hours, is activated simply under the tap. The surface is dry again in a few seconds and the product is immediately ready for use.

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

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

**3-D COOL® Technology:**  
Fast and long-lasting cooling in the right places and for several hours. The material stores the water and provides a clear cooling effect for several hours via evaporative cooling.

## COOLING VEST

Accessories

Part number: **90026 16021 000 45**

Garment weight: approx. 260g

Single-coloured • V-neck • covered hook&loop fastener for variable width adjustment • body in short shape for health protection: the kidney area remains free of cooling • in a few seconds the product is evenly activated with water and the surface is dry again and the vest is ready for use • does not drip and there is no condensation • lowers the body temperature to a normal physiological level • 3D-high-tech microfiber fleece • outer fabric antibacterial thanks to natural silver ions • pleasantly light and sweat-absorbing • can be worn under any clothing • machine washable in the household laundry.



**1 and 2**  
Antibacterial outer fabric

## COOLING BANDANA

Accessories

Part number: **90026 76026 000 45**

Garment weight: approx. 90g

Single-coloured • with ties in the back area • back with tab for cooling the neck area • in a few seconds the product is evenly activated with water and the surface is dry again and the bandana is ready for use • does not drip and does not release condensation • 3D-high-tech microfiber fleece • outer fabric antibacterial thanks to natural silver ions • pleasantly light and sweat-absorbing • can be worn under any helmet or hood • machine washable in the household laundry.



**2**  
Back centre with flap for cooling the neck area

HEAT,  
SPLASHES &  
WELDING



## KNEE PADS

Accessories

Part number: **04033 76013 000 58**

Garment weight: approx. 70g

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

Sale unit: 1 pair

3 |



Lightweight and sturdy

## BELT FR

Accessories

Part number: **01113 76012 000 46**

Garment weight: approx. 80g

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

4 |



Flame-retardant plastic buckle

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

**FABRIC WEIGHT:** 1 | and 2 | approx. 580g/m<sup>2</sup>

# ► 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. For comfortable working even under extreme conditions, we offer three COMFORT product lines with helpful features such as walking slits, ventilation and hook&loop fasteners.



HEAT,  
SPLASHES &  
WELDING



## 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
<b>Material number</b>	<b>12014</b>	<b>12008</b>	<b>12003</b>	<b>12015</b>
<b>Collection/Products</b>	TEMPEX®-TREME HEAT COMFORT/COMFORT Plus/COMFORT Duo	TEMPEX®-TREME HEAT COMFORT/COMFORT Plus/COMFORT Duo	TEMPEX®-TREME HEAT CLASSIC	Gaiters and gloves
<b>Material</b>	70% preox, 30% para-aramide	100% aramide (70% recycled meta-aramide, 30% para-aramide)	100% para-aramide	70% preox, 30% para-aramide
<b>Material weight</b>	approx. 360g/m <sup>2</sup>	approx. 420g/m <sup>2</sup>	approx. 475g/m <sup>2</sup>	approx. 690g/m <sup>2</sup>
<b>Carrier material</b>	Twill	Knitted fabric with roughened nap	Herringbone twill	Twill
<b>Aluminisation</b>	Aluminum pigmented transfer film	PES film aluminised on both sides	Aluminum pigmented transfer film	Aluminum pigmented transfer film
<b>Standards</b>	EN ISO 11612 A1/B1/C3/D3/E3/F1	EN ISO 11612 A1/B1/C4/D3/E3/F2	EN ISO 11612 A1/B1/C3/D3/E3/F1	EN ISO 11612 A1/B1/C3/D3/E3/F1
<b>Protection properties</b>	<ul style="list-style-type: none"> <li>• High protection against radiant heat</li> <li>• Very good protection from liquid metal spatters</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 spatters</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 spatters</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 spatters</li> <li>• Very high mechanical strength</li> </ul>
<b>Detailed photo</b>				

### FIELDS OF APPLICATION:

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

# ► TEMPEX®-TREME HEAT CLASSIC

We offer jacket, trousers, foundry coat and sleeve apron in the resistant material KF-3/Z in various designs. Choose between hook&loop- and Quick release fastening as well as different coat and jacket lengths (all available variants see page 236).

ITEM	MAT. NO.	MATERIAL	COLOUR	COLOUR NO.	COLOUR NAME	REGULAR SIZES, IN STOCK
1 to 4	12003	KF-3/Z	grey	15	silver	EN ISO 11612 A1/B1/C3/D3/E3/F1 46/48-58/60 More sizes available see page 248



## FOUNDRY COAT

Metalized heatprotection (C3)  
Part number: **12003 41030 000 15 (KF-3/Z)**  
Garment weight: approx. 1,520 g

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

## APRON WITH SLEEVES

Metalized heatprotection (C3)  
Part number: **12003 71130 000 15 (KF-3/Z)**  
Garment weight: approx. 1,125 g

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

HEAT,  
SPLASHES &  
WELDING



DISCOVER ALL  
MODELS ONLINE



3 |



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



4 |



All seams with FR thread

More variants and lengths available on request  
or from stock. See page 236.

#### 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.

# ► TEMPEX®-TREME HEAT CLASSIC

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

ITEM	MAT. NO.	MATERIAL	COLOUR	COLOUR NO.	COLOUR NAME	EN ISO 11612 A1/B1/C3/D3/E3/F1	SIZES, IN STOCK
5   6	12003	KF-3/Z	grey	15	silver		One size



## BIB APRON

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

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

## HALF APRON

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

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



# TEMPEX®-TREME HEAT COMFORT

The COMFORT range offers exceptional comfort thanks to ergonomic cuts, adjustable details and various length options. Practical Velcro fastenings make it easy to put on and take off. All models are available in lightweight CK-12/Z material or soft AW-1/Y material.

HEAT,  
SPLASHES &  
WELDING



ITEM	MAT. NO.	MATERIAL	COLOUR	COLOUR NO.	COLOUR NAME	REGULAR SIZES, IN STOCK
1	12014	CK-12/Z		15	silver	 EN ISO 11612 A1/B1/C3/D3/E3/F1 <b>46/48-58/60</b> More sizes available see page 248



## FOUNDRY COAT

Metalized heatprotection (C3)  
 Part number: **12014 41130 001 15 (CK-12/Z)**  
 Garment weight: approx. 1,110 g

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

Much more variants, materials and lengths available on request or from stock.  
 See page 237.



DISCOVER ALL MODELS ONLINE



# ► TEMPEX®-TREME HEAT COMFORT

The COMFORT products offer high wearing comfort and freedom of movement for works in many areas of application. An elasticated waistband and full-length hook&loop fastenings make it easy to put on and take off the clothes. The aprons are also available in different lengths (all available variants see page 237). All garments offer excellent protection against large aluminium and iron splashes as well as radiant heat.

ITEM	MAT. NO.	MATERIAL	COLOUR	COLOUR NO.	COLOUR NAME	EN ISO 11612 A1/B1/C3/D3/E3/F1	REGULAR SIZES, IN STOCK
2   to 5	12014	CK-12/Z		15	silver		46/48-58/60 More sizes available see page 248 Bib apron: One size



## JACKET

Metalized heatprotection (C3)  
Part number: **12014 11180 000 15 (CK-12/Z)**  
Garment weight: approx. 800g

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

## TROUSERS

Metalized heatprotection (C3)  
Part number: **12014 21000 001 15 (CK-12/Z)**  
Garment weight: approx. 890g

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

HEAT,  
SPLASHES &  
WELDING



Much more variants, materials and lengths  
available on request or from stock. See page 237.



#### APRON WITH SLEEVES

Metalized heatprotection (C3)  
Part number: 12014 71130 000 15 (CK-12/Z)  
Garment weight: approx. 960 g

Neckline with FR molleton • opening with covered hook&loop fastener • hook&loop fastener on the back • ergonomic sleeves • sleeve width adjustable via snap fastener inside • all seams with FR thread • length: approx. 130 cm.  
Further available length: 110 cm.



DISCOVER ALL  
MODELS ONLINE



#### BIB APRON

Metalized heatprotection (C3)  
Part number: 12014 71131 000 15 (CK-12/Z)  
Garment weight: approx. 470 g

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

# ► TEMPEX®-TREME HEAT COMFORT Duo

In our new Duo collection, the front and back are each made from a different material – for optimum protection with less weight and more comfort. The AW1-Y material with the highest thermal insulation (C4) provides protection at the front – where the radiant heat mainly hits. At the rear, we use the lighter CK-12/Z fabric (C3). This results in a lower garment weight and at the same time very good protection against heat and liquid metals.

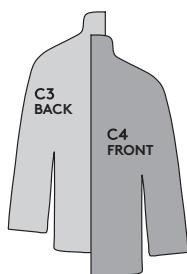
MAT. NO.	MATERIAL	COLOUR	COLOUR NO.	COLOUR NAME	REGULAR SIZES, IN STOCK
FRONT	12008	AW-1/Y	■	15	silver
BACK	12014	CK-12/Z			EN ISO 11612 A1/B1/C4/D3/E3/F2 EN ISO 11612 A1/B1/C3/D3/E3/F1 46/48–58/60 More sizes available see page 248



#### The new TEMPEX®-TREME HEAT COMFORT Duo composition

Safety where it matters most:

The front material complies with AW-1/Y (the highest protection against radiant heat [C4]), the material on the back complies with CK-12/Z (high protection against radiant heat [C3]).



#### FOUNDRY COAT

Metalized heatprotection (C4/C3)  
Part number: 12008 41230 011 15 (AW-1/Y+CK-12/Z)  
Garment weight: approx. 1,010 g

Front and sleeves made of AW-1/Y • back and collar made of CK-12/Z • lined stand-up collar with flame-retardant cotton lining • front with full-length hook&loop fastening inside • ergonomically shaped sleeves • sleeve width adjustable with snap fastener inside • with underarm ventilation • with walking slit • all seams with FR thread • length: 130 cm. Other available lengths: 110 cm/120 cm/140 cm

Much more variants and lengths available on request or from stock.  
See page 238.



DISCOVER ALL MODELS ONLINE



HEAT,  
SPLASHES &  
WELDING



### JACKET

Metalized heatprotection (C4/C3)

Part number: **12008 11280 010 15 (AW-1/Y+CK-12/Z)**

Garment weight: approx. 760g

Front and sleeves made of AW-1/Y • back and collar made of CK-12/Z • lined stand-up collar with flame-retardant cotton lining • front with full-length hook&loop fastening inside • ergonomically shaped sleeves • sleeve width adjustable snap fastener inside • all seams with FR thread • length: approx. 80 cm.

Other available lengths: 90 cm/100 cm

### TROUSERS

Metalized heatprotection (C4/C3)

Part number: **12008 21200 001 15 (AW-1/Y+CK-12/Z)**

Garment weight: approx. 860g

Front made of AW-1/Y • back made of CK-12/Z • 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 • FR seams.

# ► TEMPEX®-TREME HEAT COMFORT Plus

The COMFORT Plus program comprises the most comfortable equipment: the COMFORT versions are supplemented by additional features. In addition to the standard underarm ventilation, we offer optional additional back ventilation and, in the case of the castor coat, also the choice between a walking slit and the more comfortable concealed walking pleat for the best possible freedom of movement with optimum protection even when in action (all available variants see page 239 ff.).

ITEM	MAT. NO.	MATERIAL	COLOUR	COLOUR NO.	COLOUR NAME	FLAME RETARDANT	REGULAR SIZES, IN STOCK
1   2   3	12008	AW-1/Y	grey	15	silver	EN ISO 11612 A1/B1/C4/D3/ E3/F2	46/48-58/60 More sizes available see page 248



1 | 2 |  
1 and 2 | Inner hook&loop fastener,  
optionally with covered  
snap fastener

The coat is optionally  
available with open  
walking slit



Closed walking pleat

## FOUNDRY COAT

Metalized heatprotection (C4)  
Part number: 12008 41130 022 15 (AW-1/Y)  
Garment weight: approx. 1,470g

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.

Much more variants, materials and lengths available on request or from stock.  
See page 239 ff.



DISCOVER ALL  
MODELS ONLINE





#### JACKET

Metalized heatprotection (C4)  
Part number: **12008 11180 020 15 (AW-1/Y)**  
Garment weight: approx. 945 g

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



#### TROUSERS

Metalized heatprotection (C4)  
Part number: **12008 21000 001 15 (AW-1/Y)**  
Garment weight: approx. 995 g

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

# ► TEMPEX®-TREME HEAT

The aluminized heat protection clothing is complemented by compatible face and head protection, individually combinable. These include head protection hoods in various designs – also with ventilation openings – as well as the matching visors and heat protection glasses (all available variants see page 237 ff.).

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

## PROTECTIVE HOOD, CHEST PROTECTION

Accessories

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

Garment weight: approx. 508 g

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



## PROTECTIVE HOOD

Accessories

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

Garment weight: approx. 297 g

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



## PROTECTIVE HOOD, CHEST PROTECTION

Accessories

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

Garment weight: approx. 415 g

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



HEAT,  
SPLASHES &  
WELDING



## HELMET COVER

Accessories

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

Garment weight: approx. 184 g

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

4 |



**More variants available on request.**

See page 237 ff.

## FACE GUARD

Accessories

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

Garment weight: approx. 283 g

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

5 |



## CUFFS

Accessories

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

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

6 |



Elastic band on both ends

# ► TEMPEX®-TREME HEAT

The aluminized heat protection clothing is complemented by compatible face and head protection which can be individually combined. This includes safety helmets, flip-up mounting and Bochum goggles.

## PROTECTIVE HELMET PHENOL

Accessories

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

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

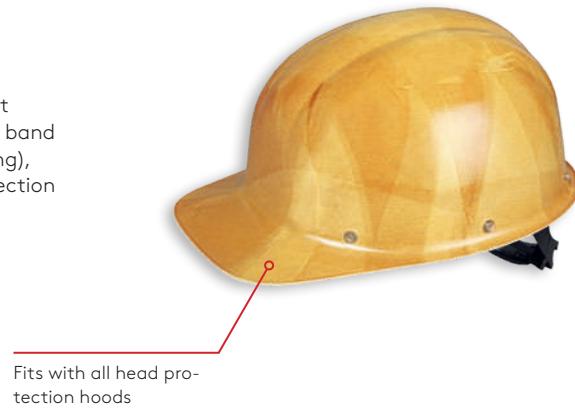
One size (51–64 cm)

 gold

Standards:



EN 397



## PROTECTIVE HELMET POLY

Accessories

Part number: **90022 7Z006 012 + COLOUR NO.**

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

One size (51–64 cm)

 10 white

 25 red

Standards:



EN 397

EN 50365



HEAT,  
SPLASHES &  
WELDING



### FLIP-UP MOUNTING

Accessories

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

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

One size

 silver



### BOCHUM GOGGLES

Accessories

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

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

 silver

Standards:



EN 166



### BOCHUM GOGGLES WITHOUT GLASS HOLDER

Accessories

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

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

 silver



# ► TEMPEX®-TREME HEAT

For optimum protection from head to toe, we also offer individually compatible visors and heat protection lenses tailored to different areas of application.

## 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



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

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

ITEM			MATERIAL LAYER CONSTRUCTION	UPPER	ISOLATION	LINING	LENGTH	SIZES, IN STOCK
1				Aramid, Sebatan leather	–		approx. 365 mm	11
	EN 407 413244			Aramid, Sebatan leather	–		approx. 385 mm	12
2				Aramid, Sebatan leather	–		approx. 435 mm	11
	EN 388 1X2XX			Aramid, Para-Aramid	–	Cotton FR	approx. 455 mm	12
3				Aramid, Para-Aramid	–		approx. 380 mm	11
	EN 407 423244			Aramid, Para-Aramid	–		approx. 400 mm	12
4				Aramid, Para-Aramid	–		approx. 465 mm	11
							approx. 485 mm	12

1 | and 2 |



3 | and 4 |



### 5-FINGER GLOVES 370 + LEATHER

Accessories

Part number: 12008 71011 002 2268

### 5-FINGER GLOVES 440 + LEATHER

Accessories

Part number: 12008 71011 001 2268

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

 silver/brown

### 5-FINGER GLOVES 390 + ARAMIDE

Accessories

Part number: 12008 71012 003 2269

### 5-FINGER GLOVES 470 + ARAMIDE

Accessories

Part number: 12008 71012 002 2269

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

 silver/yellow



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	EN ISO 11612 A1/B1/C3/D3/E3/F1 (Partial body protection)	EN ISO 20349-1	SIZES, IN STOCK
1   2		15	silver	preox/Aramid	-	-	One size
3		2276	white/grey	full calf leather	-	-	1 (= up to size 43) 2 (= from size 44)
4						EN ISO 20349-1	39-48

## GAITERS, HOOK&LOOP FASTENING

Accessories

Part number: **12015 71008 000 15**

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

Sale unit: 1 pair



## GAITERS, SNAP FASTENING

Accessories

Part number: **12015 71008 001 15**

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

Sale unit: 1 pair



## SPRING GAITERS

Accessories

Part number: **12015 71009 001 15**

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

Sale unit: 1 pair



## FOUNDRY BOOTS

Accessories

Part number: **14003 76025 000 2276**

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

CHEMICALS

## WHEN HAS RELIABLE PROTECTION EVER GIVEN YOU SO MUCH FREEDOM?

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





Model: Kai, Project Management  
Collection: HB-CHEMprotect®

# ► HB-CHEMstandard

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

ITEM	COLOUR	COLOUR NO.	COLOUR NAME	EN 13034 Type 6	REGULAR SIZES, IN STOCK
1   2   4   5 3		56	iron grey		46-58, 23-29, 94-110 More sizes available see page 248 39/40-47/48 More sizes available see page 248

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

## JACKET

Chemical protection type 6

Part number: **02001 10136 001 56**

Garment weight: approx. 535g

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



Side pockets with flaps and covered snap fasteners

## COAT

Chemical protection type 6

Part number: **02001 40032 001 56**

Garment weight: approx. 690g

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



**SHIRT**

Chemical protection type 6

Part number: **02001 60000 004 56**

Garment weight: approx. 490g

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

3 |

**TROUSERS**

Chemical protection type 6

Part number: **02001 20085 001 56**

Garment weight: approx. 535g

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

4 |



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. 665g

Single-coloured • stretch braces with clamp-on clips • 1 outer bib pocket and 1 hip pocket on the right – each with flap and covered hook&loop fastener • 2 side seam pockets • 1 ruler pocket on the right 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: 1.6, Butan-1-ol: 0.5, hydrochloric acid 36%: 0.4, Nitric acid 65%: 0.0

**HB-CHEM**

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

ITEM	COLOUR	COLOUR NO.	COLOUR NAME	EN 13034 Type 6	EN 1149-5	EN ISO 15797	REGULAR SIZES, IN STOCK
1   3   4		2030	royal/dark blue				46-58, 23-29, 94-110 More sizes available see page 248
2		2082	anthracite/dark blue				39/40-47/48 More sizes available see page 248
		41	royal				
		58	anthracite				

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



## JACKET

Chemical protection type 6

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

Garment weight: approx. 510 g

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

## SHIRT

Chemical protection type 6

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

Garment weight: approx. 470 g

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

**21 TO WEAR**

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

02018 20000 014 + COLOUR NO.

2030 royal/dark blue

2082 anthracite/dark blue



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

**TROUSERS**

Chemical protection type 6

Part number: 02018 20000 011 + COLOUR NO.

Garment weight: approx. 500 g

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

**BIB AND BRACE TROUSERS**

Chemical protection type 6

Part number: 02018 50100 012 + COLOUR NO.

Garment weight: approx. 595 g

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

**MATERIAL:** 99 % RECYCLED 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: 87.8, Butan-1-ol: 95.3; Penetration index P (%): Sulphuric acid 30 %: 0.0, Sodium hydroxide solution 10 %: 0.0, o-Xylene: 7.6, Butan-1-ol: 1.1

**HB-CHEM**

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

**21 TO WEAR**


ITEM	COLOUR	COLOUR NO.	COLOUR NAME	EN 13034 Type 6	EN 1149-5	EN ISO 15797	REGULAR SIZES, IN STOCK
5		10	white				36/38-44/46 More sizes available see page 248
6	  	10 2030 2082	white royal/dark blue anthracite/dark blue	EN 13034 Type 6	EN 1149-5	EN ISO 15797	46-58, 23-29, 94-110 More sizes available see page 248

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



5 and 6 |  
All pockets with flap  
and covered snap  
fasteners



#### LADIES COAT

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

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

#### 21 TO WEAR

Ladies coat available in further  
colours – in just 21 days delivered.  
**02018 40073 000 + COLOUR NO.**

2030 royal/dark blue  
 2082 anthracite/dark blue

#### MEN'S COAT

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

#### MEN'S COAT

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

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

**MATERIAL:** 99 % RECYCLED 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: 87.8, Butan-1-ol: 95.3; Penetration index P (%): Sulphuric acid 30 %: 0.0, Sodium hydroxide solution 10 %: 0.0, o-Xylene: 7.6, Butan-1-ol: 1.1

**HB-CHEM**



# HB-CHEM FUNCTIONAL UNDERWEAR

CHEMICALS



Underwear is an important supplement to ensure comprehensive chemical protection.

The low humidity absorption and the slight warming effect allow for optimal wearing comfort – an important component of an optimal protection system.

ITEM	COLOUR	COLOUR NO.	COLOUR NAME	SIZES , IN STOCK
1   2   3		11	off-white	6-8

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

## UNDERSHIRT, LONG-SLEEVED

Chemical protection type 6

Part number: **02008 76008 000 11**

Garment weight: approx. 200g

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. 170g

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



2 |

Hem with stretchy double-stitched seam

## UNDERPANTS, LONG

Chemical protection type 6

Part number: **02008 76010 000 11**

Garment weight: approx. 200g

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



Hem with stretchy double-stitched seam

3 |

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

**HB-CHEM**



Model: Anja, Head of Production Germany

Collection: HI-VISION® BASIC



## HIVIS & WEATHER

# WELCOME TO YOUR PERSONAL COMFORT ZONE!

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



# ► HI-VISION® Basic

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

ITEM	COLOUR	COLOUR NO.	COLOUR NAME	TESTED ACCORDING TO	REGULAR SIZES, IN STOCK
1, 2		2161	fluorescent orange-red/hydron blue	EN ISO 20471 Class 2	S-2XL More sizes available see page 248
3, 4		2162	fluorescent yellow/hydron blue	EN 13758-2 tested upon UV50+	XS-L More sizes available see page 248
		17	fluorescent yellow		
		18	fluorescent orange		

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



## POLO-SHIRT, SHORT SLEEVE

High-Visibility

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

Garment weight: approx. 330 g

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

## T-SHIRT, SHORT SLEEVE

High-Visibility

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

Garment weight: approx. 310 g

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



Standard pictograms as direct embroidery, proven to UV 50+



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



#### LADIES POLO-SHIRT, SHORT SLEEVE

High-Visibility

Part number: 04025 80025 000 + COLOUR NO.

Garment weight: approx. 300 g

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

#### LADIES T-SHIRT, SHORT SLEEVE

High-Visibility

Part number: 04025 80025 001 + COLOUR NO.

Garment weight: approx. 280 g

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

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

**FABRIC WEIGHT:** approx. 185 g/m<sup>2</sup>

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

**HI-VISION®**

# HB-StormBase®

This flexible weather protection collection doesn't leave you out in the rain.

Thanks to welded seams and reflective stripes, it offers reliable protection in wind and weather and poor visibility. Certified according to EN 343 class 3/3 – the highest protection class against precipitation and ground moisture. With removable thermal insert.

ITEM	COLOUR	COLOUR-NO.	COLOUR NAME	EN 343 Class 3/3	EN 1149-5	REGULAR SIZES, IN STOCK
1		2041	navy/royal			46/48-58/60 More sizes available see page 248
2		45	navy			

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



## PARKA INCL. QUILTED JACKET

Weather Protection

Part number: **05028 19001 001 2041**

Garment weight: approx. 1,440 g

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



2 |



With  
removable  
thermo  
trousers

#### BRACE TROUSERS INCL. QUILTED TROUSERS

Weather Protection

Part number: **05028 29003 000 45**

Garment weight: approx. 1,060 g

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

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

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

COLD PROTECTION

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

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

From head to toe, from the inside outside.





Model: Marc, Disposition

Collection: TEMPEX® COLD Pro

# ► 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, IN STOCK
1, 3		2040	navy/red	 EN 342 Y: 0,339 (B) m <sup>2</sup> K/W AP: Class 2 Men: 46/48-58/60 Ladies: 36/38-44/46 More sizes available see page 248 46/48-58/60
2				More sizes available see page 248

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



## JACKET

Chillroom (0-10 °C)

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

Garment weight: approx. 1,300g

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.

COLD  
PROTECTION



2 |



Pencil pocket

3 |



Full-length leg zippers  
covered inwards

#### 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

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

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

**FABRIC WEIGHT:** approx. 415 g/m<sup>2</sup>



CHILLROOM

# ► 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	EN 342 Y: 0,448 (B) m <sup>2</sup> K/W Y: 0,344 (B) m <sup>2</sup> K/W (Acrylic fur) AP: Class 2	REGULAR SIZES, IN STOCK Men: 46/48-58/60 Ladies: 36/38-44/46 More sizes available see page 248
1   2		2040	navy/red	EN 342 Y: 0,292 (R) m <sup>2</sup> K/W AP: Class 2	46/48-58/60 More sizes available see page 248
3				EN 342 Y: 0,411 (B) m <sup>2</sup> K/W AP: Class 2	
4					

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



### JACKET ORDER PICKER

Cold Store (-49 °C)

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

Garment weight: approx. 1,680g

### LADIES JACKET ORDER PICKER

Cold Store (-49 °C)

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

Garment weight: approx. 1,380g

### JACKET ORDER PICKER WITH ACRYLIC FUR LINING

Cold Store (-49 °C)

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

Garment weight: approx. 1,740g

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. 1,520g

### LADIES TRousERS ORDER PICKER

Cold Store (-49 °C)

Part number: **09045 2K001 000 2040**

Garment weight: approx. 1,355g

### TRousERS ORDER PICKER WITH ACRYLIC FUR LINING

Cold Store (-49 °C)

Part number: **09028 2K006 000 2040**

Garment weight: approx. 1,600g

Completely with acrylic fur lining.

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

**3 |**

Hood with faux fur lining

**4 |**

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

Adjustable hip size

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

#### 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.

#### COVERALL ORDER PICKER

Cold Store (-49 °C)

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

Garment weight: approx. 2,410 g

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

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

NON-WOVEN, INNER LINING: 100 % POLYESTER

**FABRIC WEIGHT:** approx. 520 g/m<sup>2</sup> • approx. 560 g/m<sup>2</sup> (with acrylic fur lining)



# ► TEMPEX® CLASSIC

## COLD STORE PLUS

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

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

ITEM	COLOUR	COLOUR NO.	COLOUR NAME	REGULAR SIZES, IN STOCK
1   2		2040	navy/red	 EN 342 Y: 0,404 (B) m <sup>2</sup> K/W Y: 0,398 (R) m <sup>2</sup> K/W (Plus) AP: Class 2 46/48-58/60 More sizes available see page 248

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



### JACKET FORKLIFT DRIVER

Cold Store Plus (-49 °C)

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

Garment weight: approx. 1,840 g

### JACKET FORKLIFT DRIVER PLUS

Cold Store Plus (-49 °C)

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

Garment weight: approx. 2,095 g

Additional acrylic fur lining on the back.

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

### TRousERS FORKLIFT DRIVER

Cold Store Plus (-49 °C)

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

Garment weight: approx. 1,650 g

### TRousERS FORKLIFT DRIVER PLUS

Cold Store Plus (-49 °C)

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

Garment weight: approx. 1,845 g

Knee pockets including additional knee insulation.

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

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

NON-WOVEN, INNER LINING: 100 % POLYESTER .

**FABRIC WEIGHT:** approx. 630 g/m<sup>2</sup>



**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	EN 342 Y: 0,391 (B) m <sup>2</sup> K/W AP: Class 2	REGULAR SIZES, IN STOCK
1		2040	navy/red		<b>REGULAR SIZES, IN STOCK</b> Men: 46/48-58/60 Ladies: 36/38-44/46 More sizes available see page 248

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


**JACKET**

Chillroom (0-10 °C)

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

Garment weight: approx. 1,395 g

**LADIES JACKET**

Chillroom (0-10 °C)

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

Garment weight: approx. 1,365 g

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

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

NON-WOVEN, INNER LINING: 100 % POLYESTER

**FABRIC WEIGHT:** approx. 445 g/m<sup>2</sup>



**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, IN STOCK
1		2040	navy/red	-	46/48-58/60 More sizes available see page 248
2		45	navy	EN 342 Y: 0,391 (B) m <sup>2</sup> K/W AP: Class 2	Men: 46/48-58/60 Ladies: 36/38-44/46
3		2040	navy/red	EN 342 Y: 0,435 (B) m <sup>2</sup> K/W AP: Class 2	More sizes available see page 248
4		45	navy		

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



Front zipper with chin protection

Side pockets

 Covered front zipper  
(only men's version)

 Full-length 2-way leg  
zippers covered inwards

**BODY WARMER**

Chillroom (0-10 °C)

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

Garment weight: approx. 640g

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. 1,485g

**LADIES TROUSERS**

Chillroom (0-10 °C)

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

Garment weight: approx. 1,300g

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



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

3 |



Adjustable suspenders

Raised back

Side pockets

Additional knee insulation made of acrylic fur lining

4 |

#### 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.

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

NON-WOVEN, INNER LINING: 100 % POLYESTER

**FABRIC WEIGHT:** CHILLROOM approx. 445 g/m<sup>2</sup> • COLD STORE approx. 545 g/m<sup>2</sup>



**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, IN STOCK
1				EN 342 Y: 0,274 (R) m <sup>2</sup> K/W
2		2040	navy/red	EN 342 Y: 0,443 (B) m <sup>2</sup> K/W
3				EN 342 Y: 0,508 (B) m <sup>2</sup> K/W AP: Class 2
4		45	navy	EN 342 Y: 0,511 (B) m <sup>2</sup> K/W (Plus) AP: Class 2
				46/48-58/60 More sizes available see page 248
				Men: 46/48-58/60 Ladies: 36/38-44/46 More sizes available see page 248

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


**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.

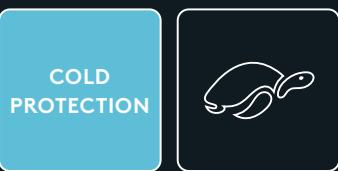
**ORDER PICKER COVERALL**

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.



Raised back



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

#### JACKET FORKLIFT DRIVER

Cold Store Plus (-49 °C)

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

Garment weight: approx. 1,840 g

#### JACKET FORKLIFT DRIVER PLUS

Cold Store Plus (-49 °C)

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

Garment weight: approx. 2,090 g

Additional acrylic fur lining on the back.

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

#### TROUSERS FORKLIFT DRIVER

Cold Store Plus (-49 °C)

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

Garment weight: approx. 1,810 g

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

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

NON-WOVEN, INNER LINING: 100 % POLYESTER

**FABRIC WEIGHT:** COLD STORE approx. 545 g/m<sup>2</sup> • COLD STORE PLUS approx. 645 g/m<sup>2</sup>



# ► 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, IN STOCK
1, 2, 4	■	45	navy	Men: 46/48-58/60 Ladies: 36/38-44/46 More sizes available see page 248 46/48-58/60
3				More sizes available see page 248



## FLEECE JACKET

Intermediate clothing

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

Garment weight: approx. 535 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

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



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



#### FLEECE SHIRT

Intermediate clothing

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

Garment weight: approx. 290g

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

#### FLEECE TROUSERS

Intermediate clothing

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

Garment weight: approx. 410g

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, IN STOCK
1 ,2 ,3 ,4 ,5 ,6		45	navy	Men: 46/48-58/60 Ladies: 36/38-44/46 More sizes available see page 248

## 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

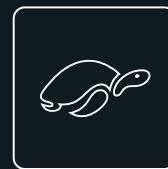
Intermediate clothing

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.





4 |



Men

#### JACKET

Intermediate clothing

Part number: **09020 1K002 000 45**

Garment weight: approx. 450 g

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

5 |



Men

4 and 5 | Inside chest pocket with pencil pocket

6 |



Men

Leg end with knitted cuffs

#### TRousERS

Intermediate clothing

Part number: **09020 2K009 000 45**

Garment weight: approx. 400 g

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

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

INNER LINING: 100 % POLYESTER .

**FABRIC WEIGHT:** approx. 245 g/m<sup>2</sup>

**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, IN STOCK
1		3116	white/silver grey/ fluorescent yellow	EN 342 Y: 0,371 (B) m <sup>2</sup> K/W AP: Class 2 - EN 342 Y: 0,371 (B) m <sup>2</sup> K/W AP: Class 2 EN 342 Y: 0,417 (B) m <sup>2</sup> K/W AP: Class 2 EN 342 Y: 0,267 (R) m <sup>2</sup> K/W AP: Class 2 EN 342 Y: 0,417 (B) m <sup>2</sup> K/W AP: Class 2
2		2237	white/silver grey	46/48-58/60 More sizes available see page 248
3		3116	white/silver grey/ fluorescent yellow	
4		2237	white/silver grey	
5				
6				

**FIELDS OF APPLICATION:** Food industry


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

Reflective patch on the straps

**JACKET**

Chillroom (0-10 °C)

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

Garment weight: approx. 1,180g

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

**BODY WARMER**

Chillroom (0-10 °C)

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

Garment weight: approx. 590g

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

**TROUSERS**

Chillroom (0-10 °C)

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

Garment weight: approx. 1,200g

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

COLD  
PROTECTION



#### JACKET ORDER PICKER

Cold Store (-49°C)

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

Garment weight: approx. 1,205 g

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

#### COAT VISITOR

Cold Store (-49°C)

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

Garment weight: approx. 1,565 g

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

#### TROUSERS

Cold Store (-49°C)

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

Garment weight: approx. 1,365 g

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

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

NON-WOVEN, INNER LINING: 100 % POLYESTER

**FABRIC WEIGHT:** CHILLROOM approx. 415 g/m<sup>2</sup> • COLD STORE approx. 515 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, IN STOCK
1 ,2 ,3 ,4 ,5 ,6		10	white	Men: 46/48-58/60 Ladies: 36/38-44/46 More sizes available see page 248

## JACKET ERGOPLUS

Intermediate clothing

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

Garment weight: approx. 435 g

## LADIES JACKET ERGOPLUS

Intermediate clothing

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

Garment weight: approx. 445 g

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



Men

## BODY WARMER ERGOPLUS

Intermediate clothing

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

Garment weight: approx. 305 g



Men

## LADIES BODY WARMER ERGOPLUS

Intermediate clothing

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

Garment weight: approx. 315 g

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



Men

## TROUSERS ERGOPLUS

Intermediate clothing

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

Garment weight: approx. 370 g

## LADIES TROUSERS ERGOPLUS

Intermediate clothing

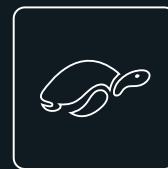
Part number: **09020 2K016 000 10**

Garment weight: approx. 400 g

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

Pre-formed legs

Legs with fleece at the bottom



## JACKET

Intermediate clothing

Part number: **09020 1K002 001 10**

Garment weight: approx. 450 g

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



## BODY WARMER

Intermediate clothing

Part number: **09020 1K023 000 10**

Garment weight: approx. 285 g

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



## TRousERS

Intermediate clothing

Part number: **09020 2K009 000 10**

Garment weight: approx. 400 g

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



**CONSTRUCTION:** UPPER MATERIAL: 100 % POLYAMIDE, DIAMOND NON-WOVEN INSULATION, 100 % POLYESTER INNER LINING .  
**FABRIC WEIGHT:** approx. 245 g/m<sup>2</sup>

# ► TEMPEX® COLD Pro

## COLD STORE

PPE for movement-intensive work at temperatures up to  $-49^{\circ}\text{C}$ , like order-picker work.

**INTENSITY OF MOVEMENT:** intensive to normal

ITEM	COLOUR	COLOUR NO.	COLOUR NAME	EN 342 Y: 0,428 (B) m <sup>2</sup> K/W AP: Class 2	EN 17353 Type B2	PRO S-2XL	REGULAR SIZES, IN STOCK
1  , 3		2128	grey/black			Reduced temperature 60°C	S-2XL More sizes available see page 248
2				-	-		

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



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



Flap with reflective application  
for easy pocket opening



Preformed  
sleeves

## JACKET

Cold Store ( $-49^{\circ}\text{C}$ )

Part number: 01174 15001 000 2128

Garment weight: approx. 1,750 g

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



#### INNER JACKET

Cold Store (-49 °C)

Part number: **09057 15002 000 2128**

Garment weight: approx. 790 g

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

#### TROUSER

Cold Store (-49 °C)

Part number: **01174 25001 000 2128**

Garment weight: approx. 1,730 g

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

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

INNER LINING: 100 % POLYESTER

**FABRIC WEIGHT:** 1 | and 3 | approx. 620 g/m<sup>2</sup> • 2 | approx. 460 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. 215g

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

Material: 55 % Polyester, 45 % Cotton

Sizes: 5-8

navy



## UNDERSHIRT TROYER, LONG-SLEEVE

Accessories

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

Garment weight: approx. 230g

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

Material: 55 % Polyester, 45 % Cotton

Sizes: 5-8

navy

## UNDERPANTS, LONG

Accessories

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

Garment weight: approx. 205g

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

Material: 55 % Polyester, 45 % Cotton

Sizes: 5-8

navy

## KIDNEY BELT

Accessories

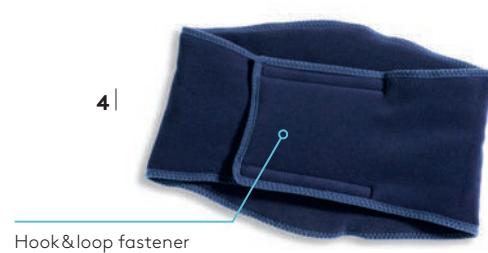
Part number: **07024 7K003 000 45**

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

Material: 100 % Polyester

Sizes: S-2XL

navy



COLD PROTECTION



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

### 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



Matching the TEMPEX® collections

### HOOD CLASSIC

Accessories

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

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

One size

Sale unit: 1 piece

navy



Matching the TEMPEX® CLASSIC collection

### HOOD COMFORT

Accessories

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

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

One size

Sale unit: 1 piece

navy



Matching the TEMPEX® COMFORT collection

### HOOD HYGIENE

Accessories

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

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

One size

Sale unit: 1 piece

white



Matching the TEMPEX® HYGIENE collection

# ► TEMPEX® THERMO ACCESSORIES

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

## KNITTED CAP

Accessories

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

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

One size

Sale unit: 1 piece

**46** black  
 **10** white



## BALACLAVA, DOUBLE-LAYERED

Accessories

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

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

One size

Sale unit: 1 piece

black



## BALACLAVA

Accessories

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

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

One size

Sale unit: 1 piece

navy



COLD  
PROTECTION



### PROTECTIVE HELMET POLY

Accessories

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

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

One size (51-64 cm)

Sale unit: 1 piece

■ red

Standards:



EN 50365



EN 397



Removable, washable  
insulated insert



### INSULATING INSERT

Accessories

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

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

One size

Sale unit: 1 piece

■ dark blue

### PROTECTIVE HELMET POLY WITH INSULATING INSERT

Accessories

Part number: **90022 75001 000 25**

Description see protective helmet and insulation insert.

One size (51-64 cm)

Sale unit: 1 piece

■ red and ■ dark blue

Standards:



EN 50365



EN 397

### 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.

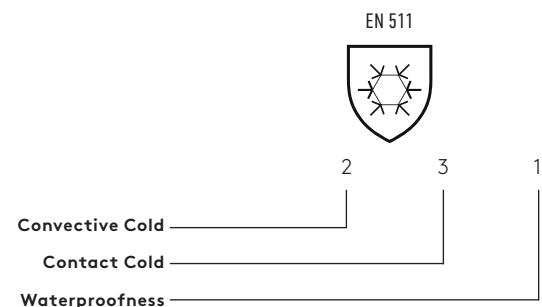
# ► TEMPEX® THERMO ACCESSORIES

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.



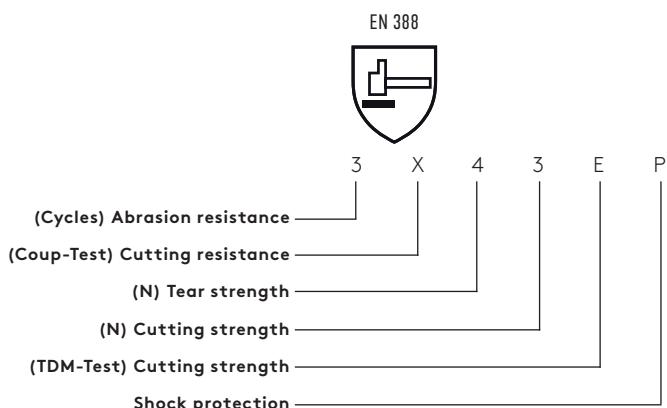
## Performance levels for protective gloves against cold according to EN 511

Test	Performance Level			
	1	2	3	4
<b>Convective Cold</b> Thermal Insulation/ <sub>TR</sub> (in m <sup>2</sup> K/W) (Insulation value)	0,10 ≤ / <sub>TR</sub> < 0,15	0,15 ≤ / <sub>TR</sub> < 0,22	0,22 ≤ / <sub>TR</sub> < 0,30	0,30 ≤ / <sub>TR</sub>
<b>Contact Cold</b> Thermische Isolation/ <sub>TR</sub> (in m <sup>2</sup> K/W) (Widerstandswerte)	0,025 ≤ R < 0,050	0,050 ≤ R < 0,100	0,100 ≤ R < 0,150	0,150 ≤ 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	COLD PROTECTION	MATERIAL LAYER CONSTRUCTION				SIZES
		BACK OF HAND	LINING	PALM OF HAND		
1	EN 511 111	EN 388 2 X 2 2 C	Polyester	HPPE, polyester and steel fiber thread	Synthetic leather	6-12
2		EN 388 2 1 1 1 X	Spandex	Thinsulate™ 40 g	Full grain goat leather	7-12

1 |

2 |



#### 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

#### 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

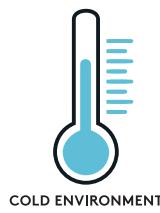
# TEMPEX® THERMO ACCESSORIES

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	EN 511 12 X	EN 388 2141 X	MATERIAL LAYER CONSTRUCTION			SIZES
			BACK OF HAND	LINING	PALM OF HAND	
1	EN 511 22 1	EN 388 2121 X	Neoprene	Fleece	MACROTHAN® (Nylon and PU)	7-11
2	EN 511 22 0	EN 388 2232 X	Polyester	Thinsulate™ 100g, Fleece	MICROTHAN® + (Nylon and PU)	7-13
3			Leather	Knitted pile	Leather	8-10

1 |

Robust palm protection



COLD ENVIRONMENT

2 |



COLD ENVIRONMENT

3 |



COLD ENVIRONMENT

## GLOVES TK PRO

Accessories

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

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

black/middle grey

## 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

## GLOVES 2 2 0 PLUS, KNIT

Accessories

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

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

middle grey/black



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



#### GLOVES LEATHER PRO

Accessories

Part number: **14013 76027 000 46**

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

black

#### 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

# ► 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			8, 10
2	Thinsulate™ 100 g	Polyester	
3			8–11



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



Covered with leather  
Elastic band at wrist



## FLEECE GLOVES, GRIP

Accessories

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

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

■ black

## FLEECE GLOVES, KNIT & GRIP

Accessories

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

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

■ black

## FLEECE GLOVES, RUBBER GRIP

Accessories

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

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

■ black

COLD  
PROTECTION



ITEM	EN 388 214 XX	EN 388 214 XX	MATERIAL	SIZES
1	-	-	Cotton, Polyamide	8-10
2	-	-	Polypropylene	One size

1|



EN 388  
Additional insulation  
underneath cold  
protection gloves

2|



Processed  
seamless

#### KNITTED GLOVES, GRIP

Accessories

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

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

navy

#### UNDERGLOVES

Accessories

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

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

navy

# ► TEMPEX® THERMO ACCESSORIES

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

## S2 INSULATED SAFETY BOOTS

Accessories

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

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

Sizes: 37–50

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

Standards:



EN 20345



## S2 LACED SAFETY BOOTS

Accessories

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

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

Sizes: 36–50

 black

Standards:



EN 20345



## S3 SAFETY BOOTS

Accessories

Part number: **14003 76033 001 46**

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

Sizes: 36–48

 black

Standards:



EN 20345



COLD  
PROTECTION



### S3 INSULATED SAFETY BOOTS

Accessories

Part number: **14017 76033 000 66**

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

Sizes: 39-47

brown

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



Model: Fabian, Solution Manager Fire & Rescue Services

Collection: HB-TECHNICAL RESCUE

FIRE & RESCUE SERVICES  
WITH THIS LOOK,  
YOU CAN'T LOSE.

Cool outfits that make you look great: with our Fire & Rescue range, you will be way ahead of the pack in terms of appearance alone. Our well-designed collections offer you maximum individuality, functionality and comfort. And, of course, you will also be optimally protected in every situation. That can only mean one thing: whether you are providing technical assistance, fighting fires or on fire brigade duty, you're the winner!

Model: Susanne, Sales Support  
Collection: Flammgard® KLASSIK



# HB-FeuerwehrHELDEN

HB Protective Wear offers a contemporary outfit for youth fire brigades with its "HB-FeuerwehrHELDEN" product line. The development of this collection draws on the many years of expertise of this experienced manufacturer of protective clothing for the FIRE & RESCUE SERVICES sector. Design and quality are impressive, and not just at first glance. A cool collection that promotes team spirit, pride and fun among the next generation of heroes.

ITEM	COLOUR	COLOUR NO.	COLOUR NAME	REGULAR SIZES, IN STOCK
1		2440	dark blue/orange	Child: 122-188
2		48	dark blue	Child: Size 1 – for Size 122-140 Size 2 – for Size 146-164 Size 3 – for Size 170-188
3				
4		2440	dark blue/orange	Men: 46-58 More sizes available see page 248
5		48	dark blue	Men: One size
6				

**FIELDS OF APPLICATION:** Garments for youth fire brigades



## JACKET

Child's sizes

Part number: **04060 10227 000 2440**

Garment weight: approx. 510 g

## JACKET

Men's sizes

Part number: **04060 10000 021 2440**

Garment weight: approx. 690 g

Two-coloured • stand-up collar with covered hook&loop fastener • covered front closure with zipper and snap fasteners • 2 attached breast pockets with flaps and hook&loop fasteners • name loop on left chest • 2 side pockets with covered PVC zip • ergonomically formed sleeves with elbow reinforcement • sleeve width adjustable via hook&loop fasteners • slightly elongated back • reflective elements on chest pocket flap and below back Yoke • no high-visibility protective clothing acc. to EN ISO 20471 and 17353.

**1 and 4 |, 2 and 5 |**  
Another eye-catching feature are the reinforcements on elbows and knees which are based on the outfits worn by rescue services personnel.





2 | and 5 |



3 | and 6 |

**Comfortable fit:** elasticated elements on the sides of the waistband ensure that the trousers fit well and that young people wearing them can move around easily in any situation

Just like the adults' outfits the pockets are designed as bellows pockets with free-hanging pocket bags and hook&loop fasteners

**For even more freedom of movement:** ergonomic knee parts



3 | and 6 |

Braces attachable via buttons instead of bib&brace trousers



**Maximum comfort:** adjustable length at the front and elasticated at the back

#### TROUSERS

Child's sizes

Part number: **04060 20166 000 48**

Garment weight: approx. 460 g

#### TROUSERS

Men's sizes

Part number: **04060 20000 021 48**

Garment weight: approx. 680 g

Single-coloured • added waistband (half elastic) with button closure • covered zip fly • back yoke made of elastic material • 2 slant pockets • inner buttons in waistband to attach separate braces • 2 leg pockets with free hanging pouch pocket on each side, flaps with hook&loop fastener • ergonomic knee with knee-reinforcement • reflective stripes on the legs • no high-visibility protective clothing acc. to EN ISO 20471 and 17353.

#### BRACES

Child's sizes

Part number: **04060 70080 000 48**

Garment weight: approx. 90 g

#### BRACES

Men's sizes

Part number: **04060 70064 001 48**

Garment weight: approx. 120 g

Single-coloured • adjustment buckles at the front for length adjustment • elastic band in the back • button-holes for attaching to the trousers.

- HB-FeuerwehrHELDEN complies with the new clothing guidelines of the German Youth Fire Brigade
- High-quality and light-weight fabric, comfortable to wear
- Modern, comfortable and functional: thanks to its contemporary cut, the new collection for young firefighters is a real eye-catcher

**MATERIAL:** 65 % POLYESTER, 35 % COTTON

**FABRIC WEIGHT:** approx. 245 g/m<sup>2</sup>

# Flammgard® KLASSIK

Like all Flammgard® products, this station wear is made of a hard-wearing and high-quality fabric.

Firefighters wear it when they are not on fire duty – e.g. for equipment maintenance, training courses or fire safety watches. It is comfortable like leisure wear, looks presentable and also protects in case of fire.

ITEM	COLOUR	COLOUR NO.	COLOUR NAME	EN ISO 11612 A1+A2/B1/C1	REGULAR SIZES, IN STOCK
1   2	■	48	dark blue	Flammgard®	Men: 46–58, 23–29, 94–110 Ladies: 36–46, 18–23, 72–92 More sizes available see page 248

**FIELDS OF APPLICATION:** Station wear for firemen



Men



Elasticated hem

Adapters available for any kind of shoulder tunnel

Comfortable side folds

## BLOUSON

Station wear FR

Part number: 01041 10160 000 48

Garment weight: approx. 1,255 g

## LADIES BLOUSON

Station wear FR

Part number: 01041 10168 005 48

Garment weight: approx. 1,185 g

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



Female cut

Ladies



2 |



Hook&loop tape  
for name badge



Reinforced  
elbows

Men

#### JACKET

Station wear FR

Part number: **01041 10162 000 48**

Garment weight: approx. 1,215 g

#### LADIES JACKET

Station wear FR

Part number: **01041 10174 000 48**

Garment weight: approx. 1,130 g

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



Ladies

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

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



# 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&loop tape for name tags.

ITEM	COLOUR	COLOUR NO.	COLOUR NAME	EN ISO 11612 A1+A2/B1/C1	EN ISO 13688 HuPF2	REGULAR SIZES, IN STOCK
3		<b>48</b>	dark blue	EN ISO 11612 A1+A2/B1/C1	EN ISO 13688 HuPF2	Men: 46-58, 23-29, 94-110 Ladies: 36-46, 18-23, 72-92 More sizes available see page 248
4		<b>2051</b>	dark blue/fluorescent yellow	-	-	46-58, 23-29, 94-110 More sizes available see page 248
5		<b>45</b>	navy	-	-	S-2XL More sizes available see page 248

**FIELDS OF APPLICATION:** Station wear for firemen

## LADIES TROUSERS

Station wear FR

Part number: **01041 20117 000 48**

Garment weight: approx. 845 g

## TROUSERS, ELASTIC WAISTBAND

Station wear FR

Part number: **01041 20109 000 48**

Garment weight: approx. 855 g

## TROUSERS WITH REFLECTIVE TAPE

Station wear FR

Part number: **01041 20086 008 48**

Garment weight: approx. 840 g

Reflective stripes parallel to the seam • no high-visibility protective clothing acc. to EN ISO 20471 and EN 17353.

## LADIES TROUSERS WITH REFLECTIVE TAPE

Station wear FR

Part number: **01041 20117 003 2051**

Garment weight: approx. 855 g

Reflective stripes parallel to the seam • no high-visibility protective clothing acc. to EN ISO 20471 and EN 17353.

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



## ACCESSORIES

Accessories

### Adapter for rank badge

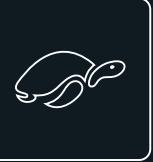
Part number: **01041 70044 000 48**

Flap with hook&loop fastening.

### Name badges

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





## SOFTSHELLJACKET

Station wear

Part number: **11001 10161 014 46**

Garment weight: approx. 915g

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.



## FLEECE JACKET

Station wear

Part number: **07001 10151 000 45**

Garment weight: approx. 650g

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



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

5 | 100% POLYESTER . . .

**FABRIC WEIGHT:** 3 | and 4 | approx. 300 g/m<sup>2</sup> . . . 5 | approx. 260 g/m<sup>2</sup>



# Flammgard® KLASSIK Green Turtle

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

ITEM	COLOUR	COLOUR NO.	COLOUR NAME	REGULAR SIZES, IN STOCK
1		488	black blue	Men: S-2XL Ladies: XS-L More sizes available see page 248
2, 3		10 471	white pastel blue	Men: 39/40-47/48 Ladies: 36-46 More sizes available see page 248

**FIELDS OF APPLICATION:** Station wear for firemen



## POLOSHIRT

Station wear

Part number: **90027 86045 000 488**

Garment weight: approx. 230g

## LADIES' POLOSHIRT

Station wear

Part number: **90027 86046 000 488**

Garment weight: approx. 220g

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



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



Ladies



#### BLOUSE, SHORT-SLEEVE

Station wear  
Part number: **03028 60031 001 + COLOUR NO.**  
Garment weight: approx. 195g

#### BLOUSE, LONG-SLEEVE

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

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



Men

#### SHIRT, SHORT-SLEEVE

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

#### SHIRT, LONG-SLEEVE

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

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



**MATERIAL:** 1 | 100 % RECYCLED POLYESTER . 2 | and 3 | 100 % COTTON (ORGANIC) .  
**FABRIC WEIGHT:** 1 | approx. 160 g/m<sup>2</sup> . 2 | and 3 | approx. 120 g/m<sup>2</sup>



# Flammgard® NORDRHEIN-WESTFALEN

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

ITEM	COLOUR	COLOUR NO.	COLOUR NAME	EN ISO 11612 A1+A2/B1/C1	EN 1149-5	REGULAR SIZES, IN STOCK
1		488	black blue			Men: 46-58, 23-29, 94-110 Ladies: 36-46, 18-23, 72-92 More sizes available see page 248
2						

**FIELDS OF APPLICATION:** Station wear for firemen Nordrhein-Westfalen



Men



## BLOUSON

Station wear FR

Part number: **01056 10149 018 488**

Garment weight: approx. 1,185g

## LADIES BLOUSON

Station wear FR

Part number: **01056 10168 006 488**

Garment weight: approx. 1,060g

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



Ladies



### TROUSERS (HuPF PART 2)

Station wear FR

Part number: **01056 20106 007 488**

Garment weight: approx. 685g

### LADIES TROUSERS

Station wear FR

Part number: **01056 20117 004 488**

Garment weight: approx. 720g

### TROUSERS, WITHOUT CARGO POCKET

Station wear FR

Part number: **01056 20106 008 488**

Garment weight: approx. 615g

### LADIES TROUSERS, WITHOUT CARGO POCKET

Station wear FR

Part number: **01056 20117 005 488**

Garment weight: approx. 600g

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



### ACCESSORIES

Accessories

Also available for North Rhine-Westfalia blouson:

#### Adapter for rank badge

Part number: **01056 70048 000 488**

Flap with hook&loop fastening.

#### Name badges

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



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

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



# 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	EN ISO 11612 A1+A2/B1/C1	EN 1149-5	REGULAR SIZES, IN STOCK
1  , 2		2240	black blue/red			Men: 46-58, 23-29, 94-110 Ladies: 36-46, 18-23, 72-92 More sizes available see page 248

**FIELDS OF APPLICATION:** Station wear for firemen Baden-Württemberg



## BLOUSON

Station wear FR

Part number: 01056 10150 028 2240

Garment weight: approx. 1,295 g

## LADIES BLOUSON

Station wear FR

Part number: 01056 10163 024 2240

Garment weight: approx. 1,210 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.





Men



#### JACKET

Station wear FR

Part number: **01056 10159 012 2240**

Garment weight: approx. 1,345 g

#### LADIES JACKET

Station wear FR

Part number: **01056 10169 008 2240**

Garment weight: approx. 1,195 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 "Stauffer Löwe + Feuerwehr" embroidery • loop with metal half ring in the pocket • 2 side pockets as welt pockets with zip • 1 Napoleon pocket • 5 inside pockets in various designs • cuffs with gusset, adjustable via covered snap fastener • hem with drawstring • back with "FEUERWEHR" patch • flame-retardant lining.



Ladies

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

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



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

ITEM	COLOUR	COLOUR NO.	COLOUR NAME				REGULAR SIZES, IN STOCK
3		<b>2240</b>	black blue/red	EN ISO 11612 A1+A2/B1/C1	EN 1149-5	EN ISO 13688 HuPF 2	Men: 46-58, 23-29, 94-110 Ladies: 36-46, 18-23, 72-92 More sizes available see page 248
4		<b>2046</b>	black/red	-	-	-	46-58, 23-29, 94-110 More sizes available see page 248
5		<b>2040</b>	navy/red	-	-	-	S-2XL More sizes available see page 248

**FIELDS OF APPLICATION:** Station wear for firemen Baden-Württemberg

## TROUSERS

Station wear FR

Part number: **01056 20103 018 2240**

Garment weight: approx. 705 g

## LADIES TROUSERS

Station wear FR

Part number: **01056 20111 005 2240**

Garment weight: approx. 700 g

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



## ACCESSORIES

Accessories

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

### Adapter for rank badge

Part number: **01056 70048 000 488**

Flap with hook&loop fastening.

### Name badges

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





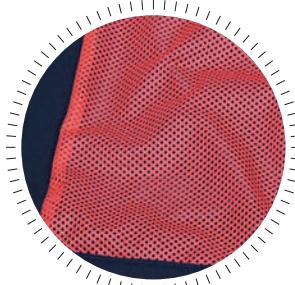
### SOFTSHELLJACKET

Station wear

Part number: **11001 10161 010 2046**

Garment weight: approx. 955 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**)

Decorative piping on front and back



Hook&loop fastener for  
name badge

### FLEECE JACKET

Station wear

Part number: **07001 10152 000 2040**

Garment weight: approx. 730 g

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



Hem with ribbed  
structure

**MATERIAL:** 3 | 59 % ARAMIDE, 40 % VISCOSA 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>



All certified Flammgard® Saarland products are made of the proven aramid viscose fabric weighing only 260 g/m<sup>2</sup> 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.	EN ISO 11612 A1+A2/B1/C1	EN 1149-5	REGULAR SIZES, IN STOCK
1  , 2		2240	black blue/red			Men: 46-58, 23-29, 94-110 Ladies: 36-46, 18-23, 72-92 More sizes available see page 248

**FIELDS OF APPLICATION:** Station wear for firemen Saarland



Men



## BLOUSON

Station wear FR

Part number: **01056 10150 026 2240**

Garment weight: approx. 1,310g

## LADIES BLOUSON

Station wear FR

Part number: **01056 10163 022 2240**

Garment weight: approx. 1,220g

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



Ladies



Men



#### JACKET

Station wear FR

Part number: **01056 10198 002 2240**

Garment weight: approx. 1,345 g

#### LADIES JACKET

Station wear FR

Part number: **01056 10169 006 2240**

Garment weight: approx. 1,190 g

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



Ladies

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

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



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, IN STOCK
3		2240	black blue/red	EN ISO 11612 A1+A2/B1/C1	EN 1149-5	EN ISO 13688 HuPF 2* * only signed men's trousers	Men: 46-58, 23-29, 94-110 Ladies: 36-46, 18-23, 72-92 More sizes available see page 248
4		2046	black/red	-	-	-	46-58, 23-29, 94-110 More sizes available see page 248
5		2040	navy/red	-	-	-	S-2XL More sizes available see page 248

**FIELDS OF APPLICATION:** Station wear for firemen Saarland

## TROUSERS

Station wear FR

Part number: **01056 20103 016 2240**

Garment weight: approx. 715g

## LADIES TROUSERS

Station wear FR

Part number: **01056 20137 001 2240**

Garment weight: approx. 680g

## TROUSERS ACC. TO VWV (HuPF PART 2)

Station wear FR

Part number: **01056 20110 002 2240**

Garment weight: approx. 780g

Two-coloured • waistband with hook fastening and elasticated on both sides • 2 pleats at the front of the trousers • covered zip • 2 side pockets • 2 recessed back pockets with flap and hook&loop fastening • 2 bellow pockets on the side seam with flaps and hook&loop fastening, flaps with red trim and underlined "FEUERWEHR" embroidery • right-hand flap with opening for pen • lined crotch • seat seam designed to be easy to modify.



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



## ACCESSORIES

Accessories

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

### Adapter for rank badge

Part number: **01056 70048 000 488**

Flap with hook&loop fastening.

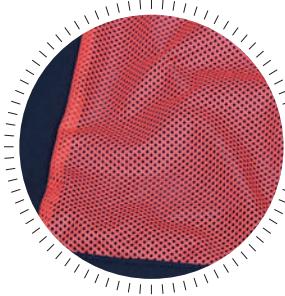
### Name badges

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





Jacket also available with  
red mesh lining (Part number:  
**11001 10161 013 2046**)



### SOFTSHELLJACKET

Station wear

Part number: **11001 10161 011 2046**

Garment weight: approx. 945g

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.

4 |  
Hook&loop tape  
for name badge



Decorative piping on  
front and back

### FLEECE JACKET

Station wear

Part number: **07001 10152 001 2040**

Garment weight: approx. 725g

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

5 |



Hem with ribbed structure

**MATERIAL:** 3 | 59 % ARAMIDE, 40 % VISCOSA 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>



Day shift duty made easy: The material of our Flammgard® Bayern collection is particularly light and soft and can be worn very comfortably even over longer periods of use. Movement-friendly parts such as elastic knit inserts and shaped knees provide physical relief. Red details add visual accents and make the Bayern collection a real eye-catcher.

ITEM	COLOUR	COLOUR NO.	COLOUR NAME	REGULAR SIZES, IN STOCK
1		2120	dark navy/red	Men: 46–58, 23–29, 94–110 Ladies: 36–46, 18–23, 72–92
2		458	dark navy	More sizes available see page 248

**FIELDS OF APPLICATION:** Station wear for firemen Bayern



## BLOUSON

Station wear

Part number: **04104 10218 000 2120**

Garment weight: approx. 810 g

## LADIES BLOUSON

Station wear

Part number: **04104 10217 000 2120**

Garment weight: approx. 750 g

Two-coloured • shoulder tunnel for rank badge • loop fastener for name badges on the right front • undercollar and inner collar band in contrasting colour red • front closure with zipper • 2 breast pockets with flaps and hook&loop fastening • left pocket with pen compartment • ladies model with darts at chest height • 2 side pockets as welt pockets with zip • 2 inner pockets with zip and red pipe • mobile phone pocket inside on the right • cuffs with elastic knit insert • hem cuff with elastic knit • completely lined • label inside on the back for barcode or name patches.

## ACCESSORIES

Accessories

### Adapter for rank badge

Part number: **04104 70044 002 458**

Flap with hook&loop fastening.

### Name badges

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





2 |

Men



Saddle made of elastic fabric

Ladies



Ladies' zip

Ergonomic knee section

Elastic waistband  
for more freedom of  
movement

## TROUSERS

Station wear

Part number: **04104 20155 000 458**

Garment weight: approx. 640g

## LADIES TROUSERS

Station wear

Part number: **04104 20154 000 458**

Garment weight: approx. 620g

Two-colored • waistband with patent button closure and elastic band on both sides • covered zip-fly • saddle made of elastic fabric • 2 wing pockets • 2 back pockets • 2 integrated leg pockets, each with a piped pocket and zipper • ergonomic knee section.



2 integrated leg  
pockets, each with a piped  
pocket and zipper

**MATERIAL:** 63 % POLYESTER, 33 % COTTON, 4 % ELASTOLEFIN

**FABRIC WEIGHT:** approx. 245 g/m<sup>2</sup>



# HB-TECHNICAL RESCUE

The all-rounder for technical assistance: combining freedom of movement, safety and comfort. The parka is virus and bacteria-proof, protects against rain and keeps you warm on colder days with its zip-in fleece jacket. The trousers feature elastic material and an ergonomic cut. The clothing also complies with the DGUV high-visibility vest exemption.

ITEM	COLOUR	COLOUR NO.	COLOUR NAME					REGULAR SIZES, IN STOCK
1		3271	dark blue/ fluorescent yellow/ black	EN ISO 11612 A1+A2/B1/C1	EN 343 4 4 X (excl. Fleecejacket) EN 343 4 3 X (incl. Fleecejacket)	-	-	46-58, 23-29, 94-110 More sizes available see page 248
2		2047	black/navy	-	-	-	-	46-58, 23-29, 94-110 More sizes available see page 248
3		2428	black blue/ anthracite grey	EN ISO 11612 A1+A2/B1/ C1/F1	-	EN 1149-5	EN 17353 Type B2	Men: 46-58, 23-29, 94-110 Ladies: 36-46, 18-23, 72-92 More sizes available see page 248

**FIELDS OF APPLICATION:** Technical assistance



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. 1,525 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 high-visibility protective clothing acc. to EN ISO 20471 and EN 17353 • zippers to zip in a fleece jacket.



## FLEECE JACKET

Technical assistance FR

Part number: **07015 19006 000 2047**

Garment weight: approx. 670g

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.



**Braces for the trousers,**  
attachable via buttons

Part number: **01284 70064 001 488**

## TRousERS

Technical assistance FR

Part number: **01295 20161 000 2428**

Garment weight: approx. 805g

## LADIES TRousERS

Technical assistance FR

Part number: **01295 20162 000 2428**

Garment weight: approx. 795g

Single-coloured • segmented reflective stripes • detachable braces • waistband with hook fastening • covered zip fly • elasticated waist in the side • 2 slant pockets, 1 hip pockets, 2 below pockets on side seam – each with flap and hook&loop fastening • 2 inside knee pockets • reinforcement material on knee and hem • hem with elastic • no high-visibility protective clothing acc. to EN ISO 20471 and EN 17353.



Elasticated waist  
in the side

Men

Ladies

Reinforcement material  
on knee and hem

**MATERIAL:** 1 | 98 % ARAMIDE, 2 % CARBON . 2 | 48 % MODACRYLIC, 32 % COTTON, 18 % POLYESTER, 2 % CARBON .

3 | 48 % VISCOS, 47 % ARAMIDE, 4 % ELASTOLEFIN, 1 % CARBON .

**FABRIC WEIGHT:** 1 | approx. 195 g/m<sup>2</sup> . 2 | approx. 360 g/m<sup>2</sup> . 3 | approx. 260 g/m<sup>2</sup>

# 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	EN ISO 11612 A1+A2/B1/C1	EN ISO 13688 HuPF 2	REGULAR SIZES, IN STOCK
1					-	46-58, 23-29, 94-110
2		48	dark blue			More sizes available see page 248

**FIELDS OF APPLICATION:** Technical assistance



## JACKET

Technical assistance FR

Part number: **01041 10162 001 48**

Garment weight: approx. 1,345 g

Single-coloured • with reflective stripes • yoke partition on front and back • collar with flap and hook&loop fastening • front zipper with snap fastener covered on both sides • 2 breast pockets with flaps and hook&loop fastening • right-hand pocket flap with hook&loop tape for name badge • left-hand flap with additional pocket opening under the flap • loop with metal half ring in the pocket • 2 side patch pockets with flaps • 2 inside pockets in various designs • cuffs with gusset, adjustable via covered hook&loop fastening • hem with drawstring • back with hook&loop tape for badge • sleeves with reinforced elbows • no high-visibility protective clothing acc. to EN ISO 20471 and EN 17353 • flame-retardant lining.



## TROUSERS

Technical assistance FR

Part number: **01041 20086 006 48**

Garment weight: approx. 910 g

Single-coloured • with reflective stripes • waistband with hook&loop fastening • 2 pleats on the front of the trousers, 4 darts on the back • with front and crotch lining • zip covered on one side • 2 side pockets • 1 back pocket with flap and hook&loop fastening • 2 bellow pockets on the side seam with flaps and hook&loop fastening • adjustable elasticated hem • seat seam designed to be easy to modify • no high-visibility protective clothing acc. to EN ISO 20471 and EN 17353.

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

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

# HB-WILDFIRE® 2.0

HB-WILDFIRE® 2.0 has been specially developed to meet the increasing demands placed on emergency services. A safe and comfortable outfit that protects against flames and relieves physical strain, e.g. thanks to the inner lining with hydrophilic finish and lightweight, hard-wearing outer material that can withstand many washes.

ITEM	COLOUR	COLOUR NO.	COLOUR NAME	EN ISO 11612 A1+A2/B1/ C1/F1	EN 15384	REGULAR SIZES, IN STOCK
1		3390	red/dark blue/black			46-58, 23-29, 94-110
		3393	dark blue/dark blue/ black			More sizes available see page 248
		3394	gold/gold/black			

**FIELDS OF APPLICATION:** Fire fighting in wide areas, Technical Assistance



## JACKET

Wildland firefighting

Part number: **01284 10196 003 + COLOUR NO.**

Garment weight: approx. 1,175 g

Three-coloured • with segmented yellow/silver/yellow reflective stripes • no high-visibility clothing according to EN ISO 20471 and EN 17353 • stand-up collar with flap and snap fastener • fastening strip with zip and covered snap fastener • covered hook&loop strips on front and back for fastening the overcoat back collar • front part lined • elbow reinforcement with silicone-coated trim • 2 set-in radio pockets on the chest with flaps and covered hook&loop fastener; right with opening for the antenna and 2 hook straps for attaching the radio • 1 inside pocket on the right; 1 Napoleon pocket on the left • 2 set-in side pockets with flap and covered hook&loop fastener • back section with 2 movement pleats • ergonomically shaped sleeves with adjustable hem width.

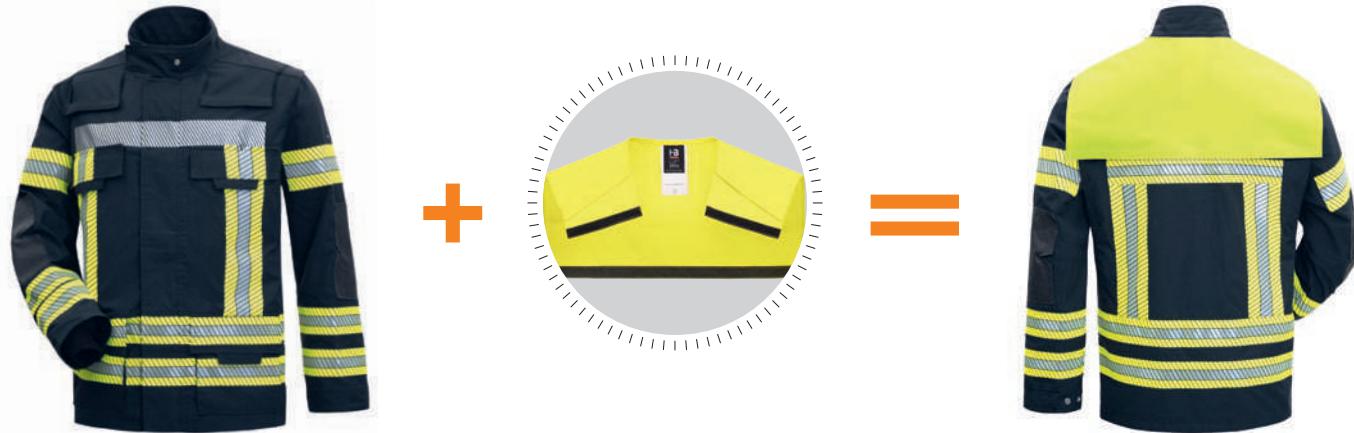
**MATERIAL:** 49.5 % VISCOSE FR, 49.5 % ARAMID, 1% CARBON

**FABRIC WEIGHT:** approx. 230 g/m<sup>2</sup>



ITEM	COLOUR	COLOUR NO.	COLOUR NAME	THREE REGULAR SIZES, IN STOCK
2		10	white	<b>40-48:</b> for jackets sz. 40-48; 86-98; 20-24
		17	yellow	<b>50-58:</b> for jackets sz. 50-58; 102-118; 25-29
		25	red	<b>60-70:</b> for jackets sz. 60-70; 122-142; 30-35
		41	royal	

**FIELDS OF APPLICATION:** Fire fighting in wide areas, Technical Assistance



#### IDENTIFICATION COLLAR

Wildland firefighting

Part number: **01266 70049 001 + COLOUR NO.**

Garment weight: approx. 85 g

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 % LYOCELL, 1% CARBON

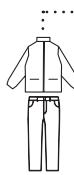
**FABRIC WEIGHT:** approx. 300 g/m<sup>2</sup>

# HB-WILDFIRE® 2.0

The elaborate manufacture of HB-Wildfire® 2.0 with special moulded seams and segmented reflective strips ensures freedom of movement. Particularly exposed areas are reinforced with a silicone-carbon trim and all pockets have hook&loop fasteners. Button-on braces provide additional comfort. Jackets and trousers are also available in long and short sizes.

ITEM	COLOUR	COLOUR NO.	COLOUR NAME	EN ISO 11612 A1+A2/B1/C1	EN 15384	REGULAR SIZES, IN STOCK
3		2197	red/black			46-58, 23-29, 94-110
		2395	black blue/black			
		2414	gold/black			More sizes available see page 248

**FIELDS OF APPLICATION:** Fire fighting in wide areas, Technical Assistance



The perceptibility acc. to EN 15384 is given when jacket and trousers are worn together. The values prescribed in the standard correspond to the requirements of DGUV 205-020.

## TROUSERS

Wildland firefighting

Part number: **01284 20152 000 + COLOUR NO.**

Garment weight: approx. 835 g

Two-coloured • with segmented yellow/silver/yellow reflective stripes • no high-visibility clothing according to EN ISO 20471 and EN 17353 • buttons in the waistband for attaching braces • waist adjustment by elastic band on the sides • covered zip • 2 wing pockets • silicone coated knee reinforcement and hem protection • inner leg reinforcement • 1 hip pocket • 2 bellow pockets on side seam each with flap and hook&loop • 2 outside knee pockets • hem with adjustable snap fastener flap.

**MATERIAL:** 49.5 % MODACRYLIC, 49.5 % COTTON, 1 % CARBON

**FABRIC WEIGHT:** approx. 230 g/m<sup>2</sup>



ITEM	COLOUR	COLOUR NO.	COLOUR NAME	REGULAR SIZES, IN STOCK
4	red	25	red	
	black blue	488		
	gold	68		One size

**FIELDS OF APPLICATION:** Fire fighting in wide areas, Technical Assistance



With the braces  
the trousers can be turned  
into bib and brace trousers in  
no time at all



#### BRACES

Wildland firefighting

Part number: 01284 70064 001 + COLOUR NO.

Garment weight: approx. 95 g

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>

ESD ELECTROSTATIC DISCHARGE

# WHEN EVERYTHING AROUND IS CHARGED, YOU REMAIN COMPLETELY RELAXED.

Wherever sensitive electronic components are manufactured, electrostatic discharge can cause damage. Our extensive ESD range offers a wide selection of clothing to protect products from this – comfortable shirts as well as lightweight trousers and coats, all with great fit. Of course, our ESD garments offer reliable conductivity as they pass extensive tests. So you have every reason to stay completely relaxed.



Model: Meike,  
Solution Manager Distribution South&CH  
Collection: CONDUCTEX® and CONDUCTEX® Pro Knit

Model: Heiko,  
Solution Manager Textile Services  
Collection: CONDUCTEX®  
and CONDUCTEX® Pro Knit

# CONDUCTEX® Green Turtle

Best sellers for environmental protection: our successful CONDUCTEX® coats without side seams are now available in many colours made from recycled material. The proven blended fabric scores extra points for sustainability – while remaining as light, comfortable and conductive as ever. All closing seams are double-stitched. The fabric carries the Hohenstein quality label "Breathability" and the GRS Standard label.

ITEM				REGULAR SIZES, IN STOCK
1   - 4	10 <sup>6</sup> bis 10 <sup>7</sup> Ω acc. to EN 61340-5-1 (IEC 61340-5-1)	Breathability	EN ISO 15797	Men: S-2XL Ladies: XS-L More sizes available see page 248

**FIELDS OF APPLICATION:** Semiconductor and telecommunications industry, aerospace industry, automotive industry, electronics manufacturing\*



1 to 4 | Attached side pockets with slanted openings



Sleeve hem adjustable via snap fasteners

## COAT, LONG SLEEVE

ESD

Part number: **08100 48100 000 + COLOUR NO.**

Garment weight: approx. 330 g

Single-coloured • cut without side seams • lapel collar • front with one-sided covered snap fasteners • 1 attached front pocket on the left • 2 attached side pockets with slanted openings • sleeve hem adjustable via snap fasteners • embroidered EPA emblem on right upper arm.

10 white  
 50 silver grey

471 pastel blue  
 41 royal

On request following colours are available  
 45 navy       58 anthracite

## LADIES COAT, LONG SLEEVE

ESD

Part number: **08100 48101 000 + COLOUR NO.**

Garment weight: approx. 320 g

Single-coloured • cut without side seams • lapel collar • front with one-sided covered snap fasteners • 1 attached front pocket on the left • 2 attached side pockets with slanted openings • 2 front tucks • sleeve hem adjustable via snap fasteners • embroidered EPA emblem on right upper arm.

10 white

On request following colours are available  
 50 silver grey  
 471 pastel blue  
 41 royal  
 45 navy  
 58 anthracite



Front with one-sided  
covered snap fasteners

#### COAT, SHORT SLEEVE

ESD

Part number: **08100 48100 002 + COLOUR NO.**

Garment weight: approx. 285 g

Single-coloured • cut without side seams • lapel collar • front with one-sided covered snap fasteners • 1 attached front pocket on the left • 2 attached side pockets with slanted openings • hemmed short-sleeve • embroidered EPA emblem on right upper arm.

10 white  
 50 silver grey

471 pastel blue  
 41 royal

On request following colours are available  
 45 navy       58 anthracite



#### LADIES COAT, SHORT SLEEVE

ESD

Part number: **08100 48101 002 + COLOUR NO.**

Garment weight: approx. 275 g

Single-coloured • cut without side seams • lapel collar • front with one-sided covered snap fasteners • 1 attached front pocket on the left • 2 attached side pockets with slanted openings • 2 front tucks • hemmed short-sleeve • embroidered EPA emblem on right upper arm.

10 white

On request following colours are available  
 50 silver grey       45 navy  
 471 pastel blue       58 anthracite  
 41 royal

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

**FABRIC WEIGHT:** approx. 130 g/m<sup>2</sup>

**CONDUCTEX®**

# CONDUCTEX® Green Turtle

Best sellers for environmental protection: our successful CONDUCTEX® coats without side seams are now available in many colours made from recycled material. The proven blended fabric scores extra points for sustainability – while remaining as light, comfortable and conductive as ever. All closing seams are double-stitched. The fabric carries the Hohenstein quality label "Breathability" and the GRS Standard label.

ITEM				REGULAR SIZES, IN STOCK
1   2	10 <sup>6</sup> bis 10 <sup>7</sup> Ω acc. to EN 61340-5-1 (IEC 61340-5-1)	Breathability	EN ISO 15797	Men: S-2XL Ladies: XS-L More sizes available see page 248 46-58, 23-29, 94-110 More sizes available see page 248
3				

**FIELDS OF APPLICATION:** Semiconductor and telecommunications industry, aerospace industry, automotive industry, electronics manufacturing\*



#### COAT, WITH KNITTED CUFFS

ESD

Part number: **08100 48100 001 + COLOUR NO.**

Garment weight: approx. 350 g

Single-coloured • cut without side seams • lapel collar • fastener strip with covered snap fasteners • 1 breast pocket attached on left • 2 side pockets with slanted openings • sleeves with stretchable knitted cuffs • embroidered EPA emblem on right upper arm.

10 white

On request following colours are available

**41** royal



#### COAT, WITH KNITTED CUFFS

ESD

Part number: **08100 48101 001 + COLOUR NO.**

Garment weight: approx. 340 g

Single-coloured • cut without side seams • lapel collar • fastener strip with covered snap fasteners • 1 breast pocket attached on left • 2 side pockets with slanted openings • sleeves with stretchable knitted cuffs • embroidered EPA emblem on right upper arm.

10 white

On request following colours are available

**41** royal



## TRousers

ESD

Part number: 08100 28100 000 + COLOUR NO.

Garment weight: approx. 260g

Single-coloured • attached waistband with covered button fastening • slit detail with plastic fastening • adjustable elastic band with button on both sides • 1 back pocket without flap and fastening • EPA emblem on left leg.

■ 41 royal  
■ 45 navy

■ 58 anthracite

On request following colours are available

■ 10 white      ■ 471 pastel blue  
■ 50 silver grey

### GRS – Global Recycled Standard



The polyester content of these coats is developed from recycled PET bottles which have been collected in Europe and is GRS certified. The production of the rPET yarn requires 60% less energy and avoids 2.4kg 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.

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

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

**FABRIC WEIGHT:** approx. 130 g/m<sup>2</sup>

**CONDUCTEX<sup>®</sup>**

# CONDUCTEX® Cotton Knit Green Turtle

Our successful CONDUCTEX® Cotton Knit collection is now also completely sustainable: the T-shirts and polo shirts for men and women are made from organically grown cotton in all colours. The environmentally friendly material is very comfortable to wear and impresses with its consistently high quality and conductivity. Available with a light grid pattern in silver grey and black.

ITEM		REGULAR SIZES, IN STOCK
1   - 4	$10^6$ bis $10^7$ Ω acc. to EN 61340-5-1 (IEC 61340-5-1)	Men: S-2XL Ladies: XS-L More sizes available see page 248

**FIELDS OF APPLICATION:** Semiconductor and telecommunications industry, aerospace industry, automotive industry, electronics manufacturing



## T-SHIRT

ESD

Part number: **08023 86002 016 + COLOUR NO.**

Garment weight: approx. 200 g

Single-coloured • optimised sleeve shape • modern shirt length, suitable for wearing over the shirt • EPA emblem on right upper arm.

 **50** silver grey

 **46** black

## LADIES T-SHIRT

ESD

Part number: **08023 86047 000 + COLOUR NO.**

Garment weight: approx. 160 g

Single-coloured • tailored cut • modern shirt length, suitable for wearing on top • EPA emblem on right upper arm.

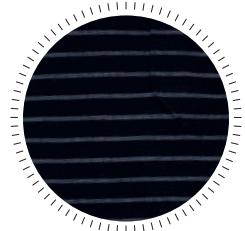
On request following colours are available

 **50** silver grey  **46** black





ESD  
ELECTRO-  
STATIC  
DISCHARGE



Bright Grid



#### POLO SHIRT, SHORT SLEEVE

ESD

Part number: **08023 86004 037** + COLOUR NO.

Garment weight: approx. 240 g

Single-coloured • optimised sleeve shape • conductive polo collar • polo placket with button fastening • left chest pocket with button fastening • modern shirt length, suitable for wearing on top • EPA emblem on right upper arm.

50 silver grey

46 black

#### LADIES' POLO SHIRT, SHORT SLEEVE

ESD

Part number: **08023 86044 003** + COLOUR NO.

Garment weight: approx. 200 g

Single-coloured • tailored cut • conductive polo collar • polo placket with button fastening • left chest pocket with button fastening • doubled sleeve cuffs • modern shirt length, suitable for wearing on top • EPA emblem on right upper arm.

On request following colours are available

50 silver grey

46 black



**MATERIAL:** 95 % COTTON (ORGANIC), 5 % CARBON

**FABRIC WEIGHT:** approx. 160 g/m<sup>2</sup>

**CONDUCTEX®**

# CONDUCTEX® Cotton Knit Green Turtle

Our successful CONDUCTEX® Cotton Knit collection is now also completely sustainable: the T-shirts and polo shirts for men and women are made from organically grown cotton in all colours. The environmentally friendly material is very comfortable to wear and impresses with its consistently high quality and conductivity. With a dark grid pattern, it is now available in the trendy colour anthracite in addition to royal blue, navy and black.

ITEM		REGULAR SIZES, IN STOCK
1   - 4	10 <sup>6</sup> bis 10 <sup>7</sup> Q acc. to EN 61340-5-1 (IEC 61340-5-1)	Men: S-2XL Ladies: XS-L More sizes available see page 248

**FIELDS OF APPLICATION:** Semiconductor and telecommunications industry, aerospace industry, automotive industry, electronics manufacturing



## T-SHIRT

ESD  
Part number: **08025 86100 100 + COLOUR NO.**  
Garment weight: approx. 200 g

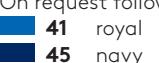
Single-coloured • optimised sleeve shape • modern shirt length, suitable for wearing over the shirt • EPA emblem on right upper arm.

 41 royal       58 anthracite  
45 navy       46 black

## LADIES T-SHIRT

ESD  
Part number: **08025 86102 100 + COLOUR NO.**  
Garment weight: approx. 160 g

Single-coloured • tailored cut • modern shirt length, suitable for wearing on top • EPA emblem on right upper arm.

On request following colours are available  
 41 royal       58 anthracite  
 45 navy       46 black



ESD  
ELECTRO-  
STATIC  
DISCHARGE



Dark Grid



Ladies' polo shirts  
tailored cut



#### POLO SHIRT, SHORT SLEEVE

ESD

Part number: **08025 86101 100 + COLOUR NO.**

Garment weight: approx. 240 g

Single-coloured • optimised sleeve shape • conductive polo collar • polo placket with button fastening • left chest pocket with button fastening • modern shirt length, suitable for wearing on top • EPA emblem on right upper arm.

**41** royal  
**45** navy

**58** anthracite  
**46** black

#### LADIES POLO SHIRT, SHORT SLEEVE

ESD

Part number: **08025 86109 000 + COLOUR NO.**

Garment weight: approx. 200 g

Single-coloured • tailored cut • conductive polo collar • polo placket with button fastening • left chest pocket with button fastening • doubled sleeve cuffs • modern shirt length, suitable for wearing on top • EPA emblem on right upper arm.

On request following colours are available  
**41** royal  
**45** navy      **58** anthracite  
**46** black

**MATERIAL:** 95 % COTTON (ORGANIC), 5 % CARBON

**FABRIC WEIGHT:** approx. 160 g/m<sup>2</sup>

CONDUCTEX®

# CONDUCTEX® Pro Knit Green Turtle

We have expanded our CONDUCTEX® Pro Knit collection with numerous new styles and colours. New items include two-coloured women's polo shirts. The soft material, which offers an optimal fit because it is knitted (not woven), remains unchanged. The functionality with excellent conductive properties also remains as good as ever. Thanks to the polyester content, it is also particularly colourfast and wash-resistant.

ITEM		REGULAR SIZES, IN STOCK
1   - 4	$10^6$ bis $10^7$ Ω acc. to EN 61340-5-1 (IEC 61340-5-1)	Men: S-2XL Ladies: XS-L More sizes available see page 248

**FIELDS OF APPLICATION:** Semiconductor and telecommunications industry, aerospace industry, automotive industry, electronics manufacturing



## POLO SHIRT, SHORT-SLEEVE

ESD

Part number: **08012 86101 301** + COLOUR NO.

Garment weight: approx. 240g

Two-coloured • conductive polo collar in contrast colour • polo placket with buttoning • front pocket on the left with button • double-stitched sleeve opening in contrast colour • stylish shirt length, suitable for wearing on top • EPA emblem on right upper arm.

	<b>2064</b>	silver grey/navy
	<b>2031</b>	royal/silver grey
	<b>2041</b>	navy/royal
	<b>2083</b>	anthracite/silver grey
	<b>2378</b>	black/anthracite

## LADIES POLO SHIRT, SHORT-SLEEVE

ESD

Part number: **08012 86103 301** + COLOUR NO.

Garment weight: approx. 190g

Two-coloured • female cut • conductive polo collar • polo placket with buttoning • double-stitched sleeve opening • stylish shirt length, suitable for wearing on top • embroidered EPA emblem on right upper arm.

On request following colours are available

	<b>2064</b>	silver grey/navy
	<b>2031</b>	royal/silver grey
	<b>2041</b>	navy/royal
	<b>2083</b>	anthracite/silver grey
	<b>2378</b>	black/anthracite



3 |

**NEW:** Polo shirts for women with female cut, available with short sleeves and with long sleeves



4 |



#### POLO SHIRT, LONG-SLEEVE

ESD

Part number: **08012 86101 302 + COLOUR NO.**

Garment weight: approx. 270 g

Two-coloured • conductive polo collar in contrast colour • polo placket with buttoning • front pocket on the left with button • stylish shirt length, suitable for wearing on top • embroidered EPA emblem on right upper arm.

	<b>2064</b> silver grey/navy
	<b>2031</b> royal/silver grey
	<b>2041</b> navy/royal
	<b>2083</b> anthracite/silver grey
	<b>2378</b> black/anthracite

#### LADIES POLO SHIRT, LONG-SLEEVE

ESD

Part number: **08012 86103 302 + COLOUR NO.**

Garment weight: approx. 240 g

Two-coloured • femal cut • conductive polo collar in contrast colour • polo placket with button fastening • double cuffs • modern shirt length, suitable for wearing on top • EPA emblem on right upper arm.

On request following colours are available

	<b>2064</b> silver grey/navy
	<b>2031</b> royal/silver grey
	<b>2041</b> navy/royal
	<b>2083</b> anthracite/silver grey
	<b>2378</b> black/anthracite

**MATERIAL:** 48 % COTTON, 48 % POLYESTER, 4 % CARBON

**FABRIC WEIGHT:** approx. 170 g/m<sup>2</sup>

**CONDUCTEX®**

# CONDUCTEX® Pro Knit

New to the CONDUCTEX® Pro Knit range: single-coloured women's polo shirts and short-sleeved T-shirts for women and men. Thanks to the nature of the material, these items are also particularly colourfast and wash-resistant, as well as being extremely comfortable to wear. All shirts are manufactured to a very high standard, offering an excellent fit and high functionality with very good conductivity values.

ITEM		REGULAR SIZES, IN STOCK
1   -4	10 <sup>6</sup> bis 10 <sup>7</sup> Ω acc. to EN 61340-5-1 (IEC 61340-5-1)	Men: S-2XL Ladies: XS-L More sizes available see page 248

**FIELDS OF APPLICATION:** Semiconductor and telecommunications industry, aerospace industry, automotive industry, electronics manufacturing

The grid matches the colour of the shirts



## POLO SHIRT, SHORT-SLEEVE

ESD

Part number: **08012 86101 300** + COLOUR NO.

Garment weight: approx. 235 g

Single-coloured • conductive polo collar • polo placket with buttoning • front pocket on the left with buttoning • stylish shirt length, suitable for wearing on top • EPA emblem on right upper arm.

 50	silver grey
 41	royal
 45	navy

**New:** Polo shirts with female cut for women



## LADIES POLO SHIRT, SHORT-SLEEVE

ESD

Part number: **08012 86103 300** + COLOUR NO.

Garment weight: approx. 175 g

Single-coloured • female cut • conductive polo collar • polo placket with buttoning • stylish shirt length, suitable for wearing on top • embroidered EPA emblem on right upper arm.

On request following colours are available			
 50	silver grey	 58	anthracite
 41	royal	 46	black
 45	navy		



ESD  
ELECTRO-  
STATIC  
DISCHARGE



**New:** comfortable T-shirts  
for women and men.  
More colours – more choice.



### T-SHIRT

ESD

Part number: **08012 86107 300 + COLOUR NO.**

Garment weight: approx. 310g

Single-coloured • v-neck • stylish shirt length, suitable for  
wearing on top • EPA logo on right upper arm.

**50** silver grey  
 **58** anthracite  
 **41** royal  
 **45** navy



### LADIES T-SHIRT

ESD

Part number: **08012 86108 300 + COLOUR NO.**

Garment weight: approx. 280g

Single-coloured • v-neck • female cut • stylish shirt length,  
suitable for wearing on top • EPA logo on right upper arm.

On request following colours are available  
 **50** silver grey       **58** anthracite  
 **41** royal       **46** black  
 **45** navy



**MATERIAL:** 48 % COTTON, 48 % POLYESTER, 4 % CARBON

**FABRIC WEIGHT:** approx. 170 g/m<sup>2</sup>

**CONDUCTEX®**

# CONDUCTEX® Pro Knit

For those who like a casual look, we now offer our popular CONDUCTEX® Pro Knit sweatshirt in many more colours, as well as new comfortable long-sleeved tops for men and women. Here too, the soft material offers a great fit and high wearing comfort. It is excellently colour-fast and wash-resistant. The high-quality manufacture ensures a long service life. The material equipment provides excellent conductivity.

ITEM	1   2   3	REGULAR SIZES, IN STOCK
	 <small>10<sup>6</sup> bis 10<sup>7</sup> Ω acc. to EN 61340-5-1 (IEC 61340-5-1)</small>	<b>REGULAR SIZES, IN STOCK</b> Men: S-2XL Ladies: XS-L More sizes available see page 248 Unisex: XS-4XL More sizes available see page 248

**FIELDS OF APPLICATION:** Semiconductor and telecommunications industry, aerospace industry, automotive industry, electronics manufacturing



## LONGSLEEVE

ESD  
Part number: **08012 86100 300 + COLOUR NO.**  
Garment weight: approx. 230 g

Single-coloured • crew neck • stylish shirt length, suitable for wearing on top • EPA logo on right upper arm.

 <b>50</b>	silver grey	 <b>58</b>	anthracite
 <b>41</b>	royal	 <b>46</b>	black
 <b>45</b>	navy		

**New:** Longsleeves for ladies, tailored cut



## LADIES LONGSLEEVE

ESD  
Part number: **08012 86102 300 + COLOUR NO.**  
Garment weight: approx. 215 g

Single-coloured • female cut • crew neck • stylish shirt length, suitable for wearing on top • embroidered ESD logo on right upper arm.

On request following colours are available			
 <b>50</b>	silver grey	 <b>58</b>	anthracite
 <b>41</b>	royal	 <b>46</b>	black
 <b>45</b>	navy		





### SWEATSHIRT

ESD

Part number: **08016 86105 300 + COLOUR NO.**

Garment weight: approx. 460 g

Single-coloured • comfortable round neck with conductive collar • HB Turtle as direct embroidery on the back • EPA logo on right upper arm.

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

**50** silver grey  
**41** royal  
**45** navy

**58** anthracite  
**46** black

1 | 2 | **MATERIAL:** 48 % COTTON, 48 % POLYESTER, 4 % CARBON . . . **FABRIC WEIGHT:** approx. 170 g/m<sup>2</sup> . . .  
3 | **MATERIAL:** 60 % POLYESTER, 33 % COTTON, 7 % CARBON . . . **FABRIC WEIGHT:** approx. 305 g/m<sup>2</sup>

**CONDUCTEX®**

# CONDUCTEX® Pro Knit

As well the comfortable sweatshirts come in new single and two-coloured designs in popular dark colours. The soft material is also knitted (not woven) and therefore very comfortable to wear. The high-quality manufacture promises a long service life, the finish ensures reliable functionality with excellent conductive properties. The polyester content guarantees high colour fastness and wash resistance.

ITEM		REGULAR SIZES, IN STOCK
1   2	10 <sup>6</sup> bis 10 <sup>7</sup> Ω acc. to EN 61340-5-1 (IEC 61340-5-1)	Unisex XS-4XL More sizes available see page 248

**FIELDS OF APPLICATION:** Semiconductor and telecommunications industry, aerospace industry, automotive industry, electronics manufacturing



## SWEAT JACKET

ESD

Part number: **08016 86106 300** + COLOUR NO.

Garment weight: approx. 530g

Single-coloured • very smooth and comfortable conductive sweat collar • front with zip fastener • 2 laterally attached pockets • stylish length • comfortable sleeve hems • EPA emblem on right upper arm.

 **50** silver grey  
 **41** royal  
 **45** navy

 **58** anthracite  
 **46** black



EPA emblem  
on right upper arm

ESD  
ELECTRO-  
STATIC  
DISCHARGE



#### SWEAT JACKET

ESD

Part number: **08016 86106 301 + FARB-NR.**

Garment weight: approx. 530 g

Two-coloured • very smooth and comfortable conductive sweat collar • front with zip fastener • 2 laterally attached pockets • stylish length • comfortable easy-fit sleeve hems • EPA logo on right upper arm.

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

 **2064** silver grey/navy  
 **2031** royal/silver grey  
 **2041** navy/royal

 **2083** anthracite/silver grey  
 **2378** black/anthracite

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

**FABRIC WEIGHT:** approx. 305 g/m<sup>2</sup>

**CONDUCTEX®**

# Naptex® 4.0

Naptex® 4.0 offers reliable protection for electronic components when high surface resistance is required. The material developed by HB is suitable for industrial washing and certified with the Pro Label, withstands many washes and has a very long service life. With Hohenstein breathability label.

ITEM				REGULAR SIZES, IN STOCK
1	$10^5$ bis $10^6$ Ω acc. to EN 61340-5-1 (IEC 61340-5-1)	Breathability	EN ISO 15797	46-58, 23-29, 94-110 More sizes available see page 248 46-58
2				More sizes available see page 248

**FIELDS OF APPLICATION:** Semiconductor and telecommunications industry, aerospace industry, automotive industry, warehouse work within electronics manufacturing\* of particularly sensitive components



## BLOUSON

ESD

Part number: **08022 18006 001 41**

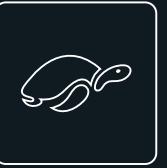
Garment weight: approx. 425 g

Single-coloured • stand-up collar with bevelled collar corner and covered snap fastening • front with covered snap fastening placket • 1 modern spade pocket on left side of chest • 2 side pockets with zip • ergonomically shaped sleeves with dividing seam • sleeves at hem with adjustable covered snap fastening • leasing label at back of collar • EPA badge on the hem.

royal



Sleeve hem  
with adjustable  
snap fastener



## TROUSERS

ESD

Part number: **08022 28010 000 41**

Garment weight: approx. 325 g

Single-coloured • cut waistband with button closure • slit with zip • perforated elastic with button adjustable in the back • 2 wing pockets • 1 back pocket on the right with flap and covered snap fastener • 1 leg pocket on the right with flap and covered snap fastener, with cell phone pocket inside • embroidered EPA emblem.

royal

**MATERIAL:** 65 % POLYESTER, 33 % COTTON, 2 % METAL

**FABRIC WEIGHT:** approx. 165 g/m<sup>2</sup>

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

# Naptex® 4.0

Naptex® 4.0 offers reliable protection for electronic components when high surface resistance is required. The clothing is suitable for industrial washing and certified with the Pro Label. It withstands many washes and has a very long service life. The material has been developed by HB and is especially breathable and certified with the Hohenstein breathability label.

ITEM				REGULAR SIZES, IN STOCK
1   - 4	$10^5$ bis $10^6$ $\Omega$ acc. to EN 61340-5-1 (IEC 61340-5-1)	Breathability	EN ISO 15797	Men: S-2XL Ladies: XS-L More sizes available see page 248

**FIELDS OF APPLICATION:** Semiconductor and telecommunications industry, aerospace industry, automotive industry, electronics manufacturing\* of particularly sensitive components



Embroidered  
EPA emblem



## LADIES COAT, SHORT-SLEEVE

ESD

Part number: **08022 48005 019 + COLOUR NO.**

Garment weight: approx. 335 g

## COAT, SHORT-SLEEVE

ESD

Part number: **08022 48000 027 + COLOUR NO.**

Garment weight: approx. 340 g

Single-coloured • cut without side seams • lapel collar • snap fastener closure covered on one side • 1 modern spade pocket on left chest • 2 attached side pockets with slanted openings • hemmed long sleeves • 2 darts on the women's coat • leasing label on the back of the collar • embroidered EPA emblem on the right upper arm.

10 white

 41 royal

## LADIES COAT, LONG-SLEEVE

ESD

Part number: **08022 48005 018 + COLOUR NO.**

Garment weight: approx. 370 g

## COAT, LONG-SLEEVE

ESD

Part number: **08022 48000 026 + COLOUR NO.**

Garment weight: approx. 380 g

Single-coloured • cut without side seams • lapel collar • snap fastener closure covered on one side • 1 modern spade pocket on left chest • 2 attached side pockets with slanted openings • hemmed long sleeves • 2 darts on the women's coat • leasing label on the back of the collar • embroidered EPA emblem on the right upper arm.

10 white

 41 royal



3 |



Darts on the women's coat

4 |



#### LADIES COAT, LONG-SLEEVE WITH CUFFS

ESD

Part number: **08022 48005 020 10**

Garment weight: approx. 400 g

#### COAT, LONG-SLEEVE WITH CUFFS

ESD

Part number: **08022 48000 029 10**

Garment weight: approx. 410 g

Single-coloured • cut without side seams • lapel collar • snap fastener closure covered on one side • 1 modern spade pocket on the left breast side • 2 attached side pockets with slanted openings • cuffs with slit and hidden snap fasteners for adjustment • 2 darts on the women's coat • leasing label on the back in the collar • embroidered EPA emblem on the right upper arm.

 white**MATERIAL:** 65 % POLYESTER, 33 % COTTON, 2 % METAL**FABRIC WEIGHT:** approx. 165 g/m<sup>2</sup>

#### 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 • embroidery EPA emblem on the right upper arm.

 white

# HABETEX® ESD Comfort

HABETEX® ESD Comfort is the perfect solution for prevention of both electric charging and high particle release. The fabric combines ESD and cleanroom features. So this is multifunctional clothing for working areas needing both ESD and cleanroom protective properties. Fabric with quality label "breathability" from Hohenstein certification institute.

ITEM			REGULAR SIZES, IN STOCK
1   2	10 <sup>6</sup> bis 10 <sup>7</sup> Ω acc. to EN 61340-5-1 (IEC 61340-5-1)	Breathability	Men/Unisex: S-2XL Ladies: XS-L More sizes available see page 248

**FIELDS OF APPLICATION:** Semiconductor and telecommunications industry, aerospace industry, automotive industry, electronics manufacturing in cleanrooms, cleanroom requirements



## COVERALL, WITH KNITTED CUFFS

ESD/Cleanroom

Part number: **08020 38002 001 10**

Garment weight: approx. 385 g

Single-coloured • stand-up collar with slanted collar corner and covered snap fastener • front with covered 2-way zip fastener • ergonomic sleeves with stretchy knitted cuffs • ventilation on the back • leasing label on the inside in the back • embroidered EPA emblem on right upper arm.

white



2|



#### LADIES COAT, WITH KNITTED CUFFS

ESD/Cleanroom

Part number: **08020 48043 000 10**

Garment weight: approx. 290g

Single-coloured • stand-up collar with slanted collar corner and covered snap fastener • front with covered snap fastening and darts • 1 straight cut pocket on the front • 2 slant pockets on the sides with slanted corner • ergonomic sleeves with stretchy knitted cuffs • leasing label on the inside in the back • embroidered EPA emblem on right upper arm.

white

Very good cleanroom values and exceptionally high discharge values which are in a low  $10^6$  field even after 60 washings.

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

**FABRIC WEIGHT:** approx. 125 g/m<sup>2</sup> • **CHARACTERISTICS:** low weight, breathable

**HABETEX®**

# HABETEX® ESD Comfort & ACCESSORIES ESD

HABETEX® ESD Comfort is the perfect solution for prevention of both electric charging and high particle release.

The fabric combines ESD and cleanroom features. So this is multifunctional clothing for working areas needing both ESD and cleanroom protective properties. Fabric with quality label "breathability" from Hohenstein certification institute.

ITEM			REGULAR SIZES, IN STOCK
1   2	10 <sup>6</sup> bis 10 <sup>7</sup> Ω acc. to EN 61340-5-1 (IEC 61340-5-1)	Breathability	Men: S-2XL Head Cover: 1/56 bis 5/64 More sizes available see page 248

**FIELDS OF APPLICATION:** Semiconductor and telecommunications industry, aerospace industry, automotive industry, electronics manufacturing in cleanrooms, cleanroom requirements



## COAT, WITH KNITTED CUFFS

ESD/Cleanroom

Part number: **08020 48042 000 10**

Garment weight: approx. 295 g

Single-coloured • stand-up collar with slanted collar corner and covered snap fastener • front with covered snap fastening and darts • 1 straight cut pocket on the front • 2 slant pockets on the sides with slanted corner • ergonomic sleeves with stretchy knitted cuffs • leasing label on the inside in the back • embroidered EPA emblem on right upper arm.

white



2 |



Face field with elastic

#### 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.

white

Very good cleanroom values  
and exceptionally high  
discharge values which are  
in a low  $10^6$  field even after  
60 washings.

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

**FABRIC WEIGHT:** approx. 125 g/m<sup>2</sup> • **CHARACTERISTICS:** low weight, breathable

**HABETEX®**

CLEANROOM & DUST

# OUR PURITY LAW DOES NOT APPLY TO YOUR BEER. BUT IT DOES FOR YOUR COVERALL.

Not a grain of dust, not a lint – this is the ideal of a cleanroom.

What is not intended in nature

is indispensable in paint shops, for example. In the cleanroom, it is the hour of fabrics that secrete as little as possible and also function as filters for particles emitted by the body.

A lot of experience and skills are needed to manufacture from these our first-class products.





Model: Heiko, Warehouse Management  
Collection: HABETEX® Micronplus

# HABETEX® climatic Pro

This tried and tested cleanroom fabric offers the perfect combination of particularly high wearing comfort, optimised stability and a very low weight. The manufacture of our fabric HABETEX® climatic Pro is specially adapted to suit the specific requirements of cleanrooms.



## COAT

Cleanroom

Part number: **06015 47010 000 + COLOUR NO.**

Garment weight: approx. 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, in stock, in stock: 46/48–58/60

More sizes available see page 248

■ **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

■ dark blue

Single-coloured • band collar • front with covered 2-way PVC zip fastener • 1 front pocket with flaps and PVC snap fastener (only dark blue: 2 breast pockets, one with name badge) • 1 hip pocket on the right with flap, no fastener • 1 trowel pocket on the right • waist adjustment via integrated elastic band with drawstring and stoppers • ventilation via cape collar on back • wristband made of bi-elastic material • elastic leg opening.

Regular sizes, in stock: 46/48–58/60

More sizes available see page 248

**MATERIAL:** 72 % VISCOSSE, 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®**



A high particle retention and very comfortable material for being a polyester fabric characterise HABETEX® Micronplus, as well as good breathability. Also the manufacture of the coveralls has been specially adapted to suit very high cleanroom requirements.



## COVERALL

Cleanroom

Part number: **06008 37001 000 + COLOUR NO.**

Garment weight: approx. 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, in stock: 46/48–58/60

More sizes available see page 248

 **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, in stock: 46/48–58/60

More sizes available see page 248

 **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, in stock: 46/48–58/60

More sizes available see page 248

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, in stock: 46/48-58/60

More sizes available see page 248

**58** anthracite

**10** white

**41** royal

**COAT**

Cleanroom

Part number: **06006 47010 000 10**

Garment weight: approx. 335 g

Single-coloured • standing board • closure band with covered 2-way PVC zip fastener • 1 front pocket on the left • 1 inner front pocket on the right • 2 side pockets • raglan sleeves with PVC snap fasteners for adjustment.

Regular sizes, in stock: 46/48-58/60

More sizes available see page 248

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. 40g

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

Material: 72% Viscose, 28% Polyester

Grammage: approx. 105 g/m<sup>2</sup>

Sizes, in stock: 1/56–5/64

■ light blue



## VISOR CAP

Accessories

Part number: **06008 77002 000 53**

Garment weight: approx. 35g

Single-coloured • visor made of reinforced PVC material • 2 lateral separation seams • elastic band centrally on the back • hem reinforced by PES rep ribbon.

Material: 98% Polyester, 2% Carbon

Grammage: approx. 150 g/m<sup>2</sup>

Sizes, in stock: 1/54–56 to 3/60–63

■ grey



## VISOR CAP

Accessories

Part number: **06015 77002 000 53**

Garment weight: approx. 30g

Single-coloured • visor made of reinforced PVC material • 2 lateral separation seams • elastic band centrally on the back • hem reinforced by PES rep ribbon.

Material: 72% Viscose, 28% Polyester

Grammage: approx. 105 g/m<sup>2</sup>

Sizes, in stock: 1/54–56 to 3/60–63

■ grey



CLEANROOM  
& DUST



## GLOVES

Accessories

Part number: **08009 76004 000 10**

Garment weight: approx. 20 g

Uncoated, with knitted cuffs • Packaging unit: 10 pairs.

Material: Nylon for gloves 100 % Polyamide

Sizes, in stock: S-XL

white

4 |



## GLOVES

Accessories

Part number: **08009 76007 000 10**

Garment weight: approx. 25 g

Jersey gloves • Packaging unit: 12 pairs/bag.

Material: 100 % Cotton

Sizes, in stock: 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 Patch : Stitch	EN ISO 15797	Washing temp.
HB-SecureAllround®	75 % CO, 24 % PES, 1% Carbon	350	✓	✓	Dryer	
HB-ArcSelect® Pro	87 % CO, 12 % PA, 1% Carbon	340 + 280	✓	✓	Dryer+Finisher	
		280		✓		
		340 + 280		✓		
HB-4arc®	89 % CO, 10 % PA, 1% Carbon	390 + 250		✓	Dryer	
HB-MODarc®	55 % MAC, 43 % CO, 2% Carbon	275 + 175		✓	Dryer+Finisher	
HB-MODarc® Reflective Stripes	55 % MAC, 43 % CO, 2% Carbon	275 + 175	✓	✓	Dryer+Finisher	60°C
HB-MODarc® Reflective Stripes Ladies	55 % MAC, 43 % CO, 2% Carbon	275 + 175	✓	✓	Dryer+Finisher	60°C
HB-MODarc® knit	54 % MAC, 44 % CO, 2% Carbon	225		✓		
HB-MODarc® Longsleeve	54 % MAC, 44 % CO, 2% Carbon	170		✓	Dryer	60°C
HB-MODarc® Sweatshirts	54 % MAC, 44 % CO, 2% Carbon	405		✓	Dryer	60°C
HB-PROtection®	55 % MAC, 43 % CO, 2% Carbon	275 + 175	✓	✓	Dryer	
HB-PROtection® Ladies	55 % MAC, 43 % CO, 2% Carbon	275 + 175	✓	✓	Dryer	
HB-PROtection® Green Turtle	54 % MAC, 44 % CO, 2% Carbon	195		✓	Dryer	
HB-MODarc&vis® Polo-Shirt 2397	49 % PES, 30 % MAC, 20 % CO, 1% Carbon	245	✓	✓		
HB-MODarc&vis® Polo-Shirt 2112	54 % MAC, 44 % CO, 2% Carbon	215	✓	✓		
HB-MODarc&vis® Sweatshirt	54 % MAC, 44 % CO, 2% Carbon	405	✓	✓	Dryer	60°C
HB-MODarc&vis® Vest FR	55 % MAC, 43 % CO, 2% Carbon	275	✓	✓	Dryer	60°C
HB-MODarc&vis® Fleece jacket	48 % MAC, 32 % CO, 18 % PES, 2% Carbon	360		✓		
HB-MODarc&vis® Parka with liner	55 % MAC, 43 % CO, 2% Carbon, FC-Equipment	275	✓	✓		
HB-MODarc&vis® Parka	55 % MAC, 43 % CO, 2% Carbon, PU-Membrane	300	✓	✓		
HB-MODarc&vis® Bib trousers	55 % MAC, 43 % CO, 2% Carbon, PU-Membrane	300	✓	✓		
HB-ArcFlash Pro	40 % MAC, 32 % CO, 16 % PES, 11 % PU, 1% Carbon	385		✓	Dryer+Finisher	60°C
	55 % MAC, 43 % CO, 2% Carbon	275 + 175		✓	Dryer+Finisher	60°C
HB-4Energy®	44 % MAC, 30 % CO, 20 % PA, 5 % AR, 1% Carbon	260 + 180	✓	✓	Dryer	60°C
	31 % PES, 28 % MAC, 20 % AR, 20 % CV, 1% Carbon			✓		
HB-MultiPro FR® Parka	with liner	320	✓	✓		
HB-MultiPro FR® Brace trousers		320	✓	✓		
HB-MultiPro FR® Fleece jacket		360 + 195		✓		
NOMEX® Viscose	50 % CV, 49 % AR, 1% Carbon	260	✓	✓		
NOMEX® Comfort	98 % AR, 2 % Carbon	260	✓	✓		
INOTEC® Arc & Energy	98 % AR, 2 % Carbon	260 + 180	✓	✓	Dryer	
PROBAN®	100 % CO	470		✓	Dryer	
HB-WeldersFORCE	79 % CO, 10 % PES, 1% Carbon	350	✓	✓	Dryer	
		450	✓	✓	Dryer	
HB-4welders® 2.0	89 % CO, 10 % PA, 1% Carbon	390		✓	Dryer	
HB-ComFlex®	94 % CO, 4 % PES, 2% Elasthane	425	✓	✓	Dryer	60°C
	40 % AR, 30 % MAC, 20 % CLY, 9 % PA, 1% Carbon	430	✓	✓	Dryer	60°C
SECAN® Securo 420	98 % CO, 2 % Carbon	420		✓	Dryer	
HB-Iron Pro	98 % CO, 2 % Carbon	420	✓	✓	Dryer	
HB-Iron Pro Shirt		250	✓	✓	Dryer	
MARLAN	50 % CV FR, 30 % WO, 20 % PA	365		✓	Dryer+Finisher	60°C
HB-HeavyMetal Pro® Jacket + Trouser	50 % CO, 39 % MAC, 10 % CV, 1% Carbon	340	✓	✓	Dryer+Finisher	
HB-HeavyMetal Pro® Jacket + Trouser	52 % CO, 37 % MAC, 10 % CV, 1% Carbon	430	✓	✓	Dryer+Finisher	
HB-HeavyMetal Pro® Shirt	50 % CO, 39 % MAC, 10 % CV, 1% Carbon	250		✓	Dryer+Finisher	
VINEX®	85 % Vinylal, 15 % Modal	390		✓	Dryer	
VINEX® Shirt	85 % Vinylal, 15 % Modal	285		✓	Dryer	
TEMPEX®-TREME HEAT						
CK-12/Z	70 % Preox, 30 % AR	360				
AW-1/Y	100 % AR	420				
KF-3/Z	100 % AR	475				
CK-4/Z	70 % Preox, 30 % AR	690				

1) A=A1+A2 ✓=Flame retardent 2) Blouson and trousers or bib and brace trousers worn together.



# ► OVERVIEW PRODUCT LINES

	Product Line	Fabric Composition Upper material	Fabric weight (approx. ... g/m <sup>2</sup> )	Retro Reflective	Attachment of emblems & patches Patch : Stitch	PRO EN ISO 15797	Washing temp.
CHEMICALS	HB-CHEMstandard	100 % PAC, FC-Equipment	270		✓		
	HB-CHEM Protect	99 % RECYCLED PES, 1% Carbon, FC-Equipment	240	✓	✓		Dryer+Finisher
HIVIS & WEATHER	HI-VISION® Basic Reflective Shirts	55 % CO, 45 % PES	185	✓	✓		
	HB-StormBase® Parka+Brace trousers	99 % PES, 1% Carbon	150	✓	✓		Dryer+Finisher
COLD PROTECTION	TEMPEX® CLASSIC	100 % PA	415 520 560 630	✓ <sup>2)</sup> ✓ <sup>2)</sup> ✓ <sup>2)</sup> ✓ <sup>2)</sup>			
	TEMPEX® COMFORT	100 % PA	445/545/645	✓ <sup>2)</sup>			
FIRE & RESCUE SERVICES	TEMPEX® HYGIENE	100 % PA	415/515				
	TEMPEX® THERMO	100 % PA	265/155/245				
ESD	TEMPEX® THERMO HYGIENE	100 % PA	245				
	TEMPEX® COLD Pro	100 % PA	620	✓			Dryer
CLEANROOM	HB-FeuerwehrHELDEN	65 % PES, 35 % CO	245				
	Flammgard® Klassik	49 % AR, 50 % CV FR, 1% Carbon	300		✓		
ESD	Flammgard® Green Turtle Poloshirt	100 % RECYCLED PES	160		✓		
	Flammgard® Green Turtle Shirt/Blouse	100 % CO (ORGANIC)	120		✓		
ESD	Flammgard® Nordrhein-Westfalen	59 % AR, 40 % CV FR, 1% Carbon	260		✓		
	Flammgard® Baden-Württemberg	59 % AR, 40 % CV FR, 1% Carbon	260		✓		
ESD	Flammgard® Saarland	59 % AR, 40 % CV FR, 1% Carbon	260		✓		
	Flammgard® Bayern	63 % PES, 33 % CO, 4 % Elasthane	245		✓		
ESD	Softshell	94 % PES, 6 % Elasthane	300		✓		
	Fleece	100 % PES	260		✓		
ESD	HB-Technical Rescue Parka	98 % AR, 2 % Carbon	195	✓	✓		
	HB-Technical Rescue Trouser	48 % CV FR, 47 % AR, 4 % Elastolefin, 1% Carbon	260	✓	✓		
ESD	HB-Technical Rescue Fleece	48 % MAC, 32 % CO, 18 % PES, 2 % Carbon	360		✓		
	HB-Technical Rescue lite	49 % AR, 50 % CV FR, 1% Carbon	300	✓	✓		
ESD	HB-Wildfire® 2.0	49.5 % CV FR, 49.5 % AR, 2 % Carbon	230	✓	✓		
	CONDUCTEX® Green Turtle	75 % RECYCLED PES, 23 % CO, 2 % Carbon	130		✓	✓	Dryer+Finisher
ESD	CONDUCTEX® Cotton Knit Green Turtle	95 % CO (BIO), 5% Carbon	160		✓	✓	
	CONDUCTEX® Pro Knit	48 % CO, 48 % PES, 4 % Carbon 60 % PES, 33 % CO, 7 % Carbon	170 305		✓	✓	
ESD	Naptex® 4.0	65 % PES, 33 % CO, 2 % Metall	165		✓	✓	Dryer+Finisher
	HABETEX® ESD Comfort	98 % PES, 2 % Carbon	125		✓	✓	

1) A=A1+A2 ✓=Flame retardent 2) Reflective application, no Hi-Vis protection. 3) Does not apply to blouson and trousers. 4) Applies to jacket and trousers.



# ► TEMPEX®-TREME HEAT

## PRODUCT VARIATIONS OF OUR MODULAR SYSTEM FOR METALLISED HEAT PROTECTION

WITH THESE EQUIPMENT VARIATIONS,  
YOU CAN INDIVIDUALLY SELECT YOUR HEAT PROTECTION EQUIPMENT  
TO SUIT YOUR REQUIREMENTS.

### SAFETY WHEN IT MATTERS

With our modular system for high-temperature environments, you can individually configure your metallised heat protection equipment to suit your requirements. Choose from a range of materials, lengths and designs.

Our collections offer everything from classic protective equipment to individually selectable features such as ventilation, ergonomic cuts and easy to handle hook&loop fasteners, which make working on blast furnaces noticeably easier.

### TEMPEX®-TREME HEAT COMFORT Duo

Our new TEMPEX®-TREME HEAT COMFORT Duo collection is characterised by the special feature that front and back are made of materials of different weights – for optimum protection with less weight and more comfort. At the front – where the radiant heat is most intense – the AW-1/Y material with the highest thermal insulation (C4) provides protection. At the back, we use the lighter CK-12/Z (C3) fabric. This results in a lower garment weight while still providing excellent protection against heat and molten metals.

### MODEL VARIATIONS TEMPEX®-TREME HEAT MODULE SYSTEM

On the following pages, you will find an overview of all available designs with all equipment and length variations. All items are available from one item.

### TEMPEX®-TREME HEAT CLASSIC

ITEM	MATERIAL	LENGTH (CM)	CLOSURE	ERGONOMICS	AVAILABILITY	PART NUMBER
Jacket	KF-3/Z	80	Hook&Loop		On stock	12003 11080 000
Jacket	KF-3/Z	80	Quick release		On request	12003 11080 200
Jacket	KF-3/Z	90	Hook&Loop		On request	12003 11090 000
Jacket	KF-3/Z	90	Quick release		On request	12003 11090 200
Jacket	KF-3/Z	100	Hook&Loop		On request	12003 11000 000
Jacket	KF-3/Z	100	Quick release		On request	12003 11000 200
Foundry Coat	KF-3/Z	130	Hook&Loop		On stock	12003 41030 000
Foundry Coat	KF-3/Z	130	Quick release		On request	12003 41030 200
Foundry Coat	KF-3/Z	140	Hook&Loop		On request	12003 41040 000
Foundry Coat	KF-3/Z	140	Quick release		On request	12003 41040 200
Half Apron	KF-3/Z	100			On stock	12003 71100 000
Apron with Sleeves	KF-3/Z	130	Hook&Loop	Sleeves	On stock	12003 71130 000
Bib Apron	KF-3/Z	130			On stock	12003 71131 000
Trousers	KF-3/Z				On stock	12003 2H003 000

**KF-3/Z** // Material: 100% Para-Aramid, Grammage: approx. 475 g/m<sup>2</sup>, Standards: EN ISO 11612 A1/B1/C3/D3/E3/F1 **12003**



## TEMPEX®-TREME HEAT COMFORT

ITEM	MATERIAL	LENGTH (CM)	CLOSURE	ERGONOMICS	WALKING COMFORT	AVAILABILITY	PART NUMBER
Jacket	<b>AW-1/Y</b>	80	Hook&Loop	Sleeves		On request	<b>12008 11180 000</b>
Jacket	<b>AW-1/Y</b>	80	Snap fasterner	Sleeves		On request	<b>12008 11180 100</b>
Jacket	<b>AW-1/Y</b>	90	Hook&Loop	Sleeves		On request	<b>12008 11190 000</b>
Jacket	<b>AW-1/Y</b>	90	Snap fasterner	Sleeves		On request	<b>12008 11190 100</b>
Jacket	<b>AW-1/Y</b>	100	Hook&Loop	Sleeves		On request	<b>12008 11100 000</b>
Jacket	<b>AW-1/Y</b>	100	Snap fasterner	Sleeves		On request	<b>12008 11100 100</b>
Jacket	<b>CK-12/Z</b>	80	Hook&Loop	Sleeves		On stock	<b>12014 11180 000</b>
Jacket	<b>CK-12/Z</b>	80	Snap fasterner	Sleeves		On request	<b>12014 11180 100</b>
Jacket	<b>CK-12/Z</b>	90	Hook&Loop	Sleeves		On request	<b>12014 11190 000</b>
Jacket	<b>CK-12/Z</b>	90	Snap fasterner	Sleeves		On request	<b>12014 11190 100</b>
Jacket	<b>CK-12/Z</b>	100	Hook&Loop	Sleeves		On request	<b>12014 11100 000</b>
Jacket	<b>CK-12/Z</b>	100	Snap fasterner	Sleeves		On request	<b>12014 11100 100</b>
Foundry Coat	<b>AW-1/Y</b>	110	Hook&Loop	Sleeves	Walking slit	On request	<b>12008 41110 001</b>
Foundry Coat	<b>AW-1/Y</b>	110	Snap fasterner	Sleeves	Walking slit	On request	<b>12008 41110 101</b>
Foundry Coat	<b>AW-1/Y</b>	120	Hook&Loop	Sleeves	Walking slit	On request	<b>12008 41120 001</b>
Foundry Coat	<b>AW-1/Y</b>	120	Snap fasterner	Sleeves	Walking slit	On request	<b>12008 41120 101</b>
Foundry Coat	<b>AW-1/Y</b>	130	Hook&Loop	Sleeves	Walking slit	On request	<b>12008 41130 001</b>
Foundry Coat	<b>AW-1/Y</b>	130	Snap fasterner	Sleeves	Walking slit	On request	<b>12008 41130 101</b>
Foundry Coat	<b>AW-1/Y</b>	140	Hook&Loop	Sleeves	Walking slit	On request	<b>12008 41140 001</b>
Foundry Coat	<b>AW-1/Y</b>	140	Snap fasterner	Sleeves	Walking slit	On request	<b>12008 41140 101</b>
Foundry Coat	<b>CK-12/Z</b>	110	Hook&Loop	Sleeves	Walking slit	On request	<b>12014 41110 001</b>
Foundry Coat	<b>CK-12/Z</b>	110	Snap fasterner	Sleeves	Walking slit	On request	<b>12014 41110 101</b>
Foundry Coat	<b>CK-12/Z</b>	120	Hook&Loop	Sleeves	Walking slit	On request	<b>12014 41120 001</b>
Foundry Coat	<b>CK-12/Z</b>	120	Snap fasterner	Sleeves	Walking slit	On request	<b>12014 41120 101</b>
Foundry Coat	<b>CK-12/Z</b>	130	Hook&Loop	Sleeves	Walking slit	On request	<b>12014 41130 001</b>
Foundry Coat	<b>CK-12/Z</b>	130	Snap fasterner	Sleeves	Walking slit	On request	<b>12014 41130 101</b>
Foundry Coat	<b>CK-12/Z</b>	140	Hook&Loop	Sleeves	Walking slit	On request	<b>12014 41140 001</b>
Foundry Coat	<b>CK-12/Z</b>	140	Snap fasterner	Sleeves	Walking slit	On request	<b>12014 41140 101</b>
Apron with Sleeves	<b>AW-1/Y</b>	110	Hook&Loop	Sleeves		On request	<b>12008 71110 000</b>
Apron with Sleeves	<b>AW-1/Y</b>	130	Hook&Loop	Sleeves		On request	<b>12008 71130 000</b>
Apron with Sleeves	<b>CK-12/Z</b>	110	Hook&Loop	Sleeves		On request	<b>12014 71110 000</b>
Apron with Sleeves	<b>CK-12/Z</b>	130	Hook&Loop	Sleeves		On stock	<b>12014 71130 000</b>
Bib Apron	<b>AW-1/Y</b>	110				On request	<b>12008 71111 000</b>
Bib Apron	<b>AW-1/Y</b>	130				On request	<b>12008 71131 000</b>
Bib Apron	<b>CK-12/Z</b>	110				On request	<b>12014 71111 000</b>
Bib Apron	<b>CK-12/Z</b>	130				On stock	<b>12014 71131 000</b>
Half Apron	<b>AW-1/Y</b>	80				On request	<b>12008 71080 000</b>
Half Apron	<b>AW-1/Y</b>	100				On request	<b>12008 71100 000</b>
Half Apron	<b>CK-12/Z</b>	80				On request	<b>12014 71080 000</b>
Half Apron	<b>CK-12/Z</b>	100				On request	<b>12014 71100 000</b>
Head protection	<b>AW-1/Y</b>			Elastic band	Breast protection	On request	<b>12008 71001 000</b>
Head protection	<b>AW-1/Y</b>			Elastic band	Breast protection	On request	<b>12008 71001 001</b>
Head protection	<b>CK-12/Z</b>			Elastic band	Breast protection	On request	<b>12014 71001 000</b>
Head protection	<b>CK-12/Z</b>			Elastic band	Breast protection	On request	<b>12014 71001 001</b>
Helmet cover	<b>AW-1/Y</b>					On request	<b>12008 71002 000</b>
Helmet cover	<b>CK-12/Z</b>					On request	<b>12014 71002 000</b>
Trousers	<b>CK-12/Z</b>			Comfortable waistband	Hook&Loop closure along the legs	On stock	<b>12014 21000 001</b>

**AW-1/Y** // Material: 100% Aramide; Grammage: approx. 420 g/m<sup>2</sup>; Standards: EN ISO 11612 A1/B1/C4/D3/E3/F2

**CK-12/Z** // Material: 70% Preox, 30% Aramide; Grammage: approx. 360 g/m<sup>2</sup>; Standards: EN ISO 11612 A1/B1/C3/D3/E3/F1

**12008**

**12014**



# TEMPEX®-TREME HEAT

## TEMPEX®-TREME HEAT COMFORT Duo

ITEM	MATERIAL	LENGTH (CM)	CLOSURE	ERGONOMICS	VENTILATION	WALKING COMFORT	AVAILABILITY	Part number
Jacket	AW-1/Y+CK-12/Z	80	Hook&Loop	Sleeves	Sleeves		On stock	12008 11280 010
Jacket	AW-1/Y+CK-12/Z	90	Hook&Loop	Sleeves	Sleeves		On request	12008 11290 010
Jacket	AW-1/Y+CK-12/Z	100	Hook&Loop	Sleeves	Sleeves		On request	12008 11200 010
Jacket	AW-1/Y+CK-12/Z	80	Snap fastener	Sleeves	Sleeves		On request	12008 11280 110
Jacket	AW-1/Y+CK-12/Z	90	Snap fastener	Sleeves	Sleeves		On request	12008 11290 110
Jacket	AW-1/Y+CK-12/Z	100	Snap fastener	Sleeves	Sleeves		On request	12008 11200 110
Jacket	AW-1/Y+CK-12/Z	80	Hook&Loop	Sleeves	Sleeves + Back		On request	12008 11280 020
Jacket	AW-1/Y+CK-12/Z	90	Hook&Loop	Sleeves	Sleeves + Back		On request	12008 11290 020
Jacket	AW-1/Y+CK-12/Z	100	Hook&Loop	Sleeves	Sleeves + Back		On request	12008 11200 020
Jacket	AW-1/Y+CK-12/Z	80	Snap fastener	Sleeves	Sleeves + Back		On request	12008 11280 120
Jacket	AW-1/Y+CK-12/Z	90	Snap fastener	Sleeves	Sleeves + Back		On request	12008 11290 120
Jacket	AW-1/Y+CK-12/Z	100	Snap fastener	Sleeves	Sleeves + Back		On request	12008 11200 120
Foundry Coat	AW-1/Y+CK-12/Z	110	Hook&Loop	Sleeves	Sleeves	Walking slit	On request	12008 41210 011
Foundry Coat	AW-1/Y+CK-12/Z	120	Hook&Loop	Sleeves	Sleeves	Walking slit	On request	12008 41220 011
Foundry Coat	AW-1/Y+CK-12/Z	130	Hook&Loop	Sleeves	Sleeves	Walking slit	On stock	12008 41230 011
Foundry Coat	AW-1/Y+CK-12/Z	140	Hook&Loop	Sleeves	Sleeves	Walking slit	On request	12008 41240 011
Foundry Coat	AW-1/Y+CK-12/Z	110	Hook&Loop	Sleeves	Sleeves	Walking pleat	On request	12008 41210 012
Foundry Coat	AW-1/Y+CK-12/Z	120	Hook&Loop	Sleeves	Sleeves	Walking pleat	On request	12008 41220 012
Foundry Coat	AW-1/Y+CK-12/Z	130	Hook&Loop	Sleeves	Sleeves	Walking pleat	On request	12008 41230 012
Foundry Coat	AW-1/Y+CK-12/Z	140	Hook&Loop	Sleeves	Sleeves	Walking pleat	On request	12008 41240 012
Foundry Coat	AW-1/Y+CK-12/Z	110	Snap fastener	Sleeves	Sleeves	Walking slit	On request	12008 41210 111
Foundry Coat	AW-1/Y+CK-12/Z	120	Snap fastener	Sleeves	Sleeves	Walking slit	On request	12008 41220 111
Foundry Coat	AW-1/Y+CK-12/Z	130	Snap fastener	Sleeves	Sleeves	Walking slit	On request	12008 41230 111
Foundry Coat	AW-1/Y+CK-12/Z	140	Snap fastener	Sleeves	Sleeves	Walking slit	On request	12008 41240 111
Foundry Coat	AW-1/Y+CK-12/Z	110	Snap fastener	Sleeves	Sleeves	Walking pleat	On request	12008 41210 112
Foundry Coat	AW-1/Y+CK-12/Z	120	Snap fastener	Sleeves	Sleeves	Walking pleat	On request	12008 41220 112
Foundry Coat	AW-1/Y+CK-12/Z	130	Snap fastener	Sleeves	Sleeves	Walking pleat	On request	12008 41230 112
Foundry Coat	AW-1/Y+CK-12/Z	140	Snap fastener	Sleeves	Sleeves	Walking pleat	On request	12008 41240 112
Foundry Coat	AW-1/Y+CK-12/Z	110	Hook&Loop	Sleeves	Sleeves + Back	Walking slit	On request	12008 41210 021
Foundry Coat	AW-1/Y+CK-12/Z	120	Hook&Loop	Sleeves	Sleeves + Back	Walking slit	On request	12008 41220 021
Foundry Coat	AW-1/Y+CK-12/Z	130	Hook&Loop	Sleeves	Sleeves + Back	Walking slit	On request	12008 41230 021
Foundry Coat	AW-1/Y+CK-12/Z	140	Hook&Loop	Sleeves	Sleeves + Back	Walking slit	On request	12008 41240 021
Foundry Coat	AW-1/Y+CK-12/Z	110	Hook&Loop	Sleeves	Sleeves + Back	Walking pleat	On request	12008 41210 022
Foundry Coat	AW-1/Y+CK-12/Z	120	Hook&Loop	Sleeves	Sleeves + Back	Walking pleat	On request	12008 41220 022
Foundry Coat	AW-1/Y+CK-12/Z	130	Hook&Loop	Sleeves	Sleeves + Back	Walking pleat	On request	12008 41230 022
Foundry Coat	AW-1/Y+CK-12/Z	140	Hook&Loop	Sleeves	Sleeves + Back	Walking pleat	On request	12008 41240 022
Foundry Coat	AW-1/Y+CK-12/Z	110	Snap fastener	Sleeves	Sleeves + Back	Walking slit	On request	12008 41210 121
Foundry Coat	AW-1/Y+CK-12/Z	120	Snap fastener	Sleeves	Sleeves + Back	Walking slit	On request	12008 41220 121
Foundry Coat	AW-1/Y+CK-12/Z	130	Snap fastener	Sleeves	Sleeves + Back	Walking slit	On request	12008 41230 121
Foundry Coat	AW-1/Y+CK-12/Z	140	Snap fastener	Sleeves	Sleeves + Back	Walking slit	On request	12008 41240 121
Foundry Coat	AW-1/Y+CK-12/Z	110	Snap fastener	Sleeves	Sleeves + Back	Walking pleat	On request	12008 41210 122
Foundry Coat	AW-1/Y+CK-12/Z	120	Snap fastener	Sleeves	Sleeves + Back	Walking pleat	On request	12008 41220 122
Foundry Coat	AW-1/Y+CK-12/Z	130	Snap fastener	Sleeves	Sleeves + Back	Walking pleat	On request	12008 41230 122
Foundry Coat	AW-1/Y+CK-12/Z	140	Snap fastener	Sleeves	Sleeves + Back	Walking pleat	On request	12008 41240 122
Trousers	AW-1/Y+CK-12/Z			Comfortable waistband		Hook&Loop closure along legs	On stock	12008 21200 001

**Front:** AW-1/Y // Material: 100% Aramide; Grammage: approx. 420 g/m<sup>2</sup>; Standards: EN ISO 11612 A1/B1/C4/D3/E3/F2

**Back:** CK-12/Z // Material: 70% Preox, 30% Aramide; Grammage: approx. 360 g/m<sup>2</sup>; Standards: EN ISO 11612 A1/B1/C3/D3/E3/F1

12008

12014



## TEMPEX®-TREME HEAT COMFORT Plus

ITEM	MATERIAL	LENGTH (CM)	CLOSURE	ERGONOMICS	VENTILATION	WALKING COMFORT	AVAILABILITY	PART NUMBER
Jacket	<b>AW-1/Y</b>	80	Hook&Loop	Sleeves	Sleeves		On request	12008 11180 010
Jacket	<b>AW-1/Y</b>	80	Hook&Loop	Sleeves	Sleeves+Back		On stock	12008 11180 020
Jacket	<b>AW-1/Y</b>	80	Snap fastener	Sleeves	Sleeves		On request	12008 11180 110
Jacket	<b>AW-1/Y</b>	80	Snap fastener	Sleeves	Sleeves+Back		On request	12008 11180 120
Jacket	<b>AW-1/Y</b>	90	Hook&Loop	Sleeves	Sleeves		On request	12008 11190 010
Jacket	<b>AW-1/Y</b>	90	Hook&Loop	Sleeves	Sleeves+Back		On request	12008 11190 020
Jacket	<b>AW-1/Y</b>	90	Snap fastener	Sleeves	Sleeves		On request	12008 11190 110
Jacket	<b>AW-1/Y</b>	90	Snap fastener	Sleeves	Sleeves+Back		On request	12008 11190 120
Jacket	<b>AW-1/Y</b>	100	Hook&Loop	Sleeves	Sleeves		On request	12008 11100 010
Jacket	<b>AW-1/Y</b>	100	Hook&Loop	Sleeves	Sleeves+Back		On request	12008 11100 020
Jacket	<b>AW-1/Y</b>	100	Snap fastener	Sleeves	Sleeves		On request	12008 11100 110
Jacket	<b>AW-1/Y</b>	100	Snap fastener	Sleeves	Sleeves+Back		On request	12008 11100 120
Jacket	<b>CK-12/Z</b>	80	Hook&Loop	Sleeves	Sleeves		On request	12014 11180 010
Jacket	<b>CK-12/Z</b>	80	Hook&Loop	Sleeves	Sleeves+Back		On request	12014 11180 020
Jacket	<b>CK-12/Z</b>	80	Snap fastener	Sleeves	Sleeves		On request	12014 11180 110
Jacket	<b>CK-12/Z</b>	80	Snap fastener	Sleeves	Sleeves+Back		On request	12014 11180 120
Jacket	<b>CK-12/Z</b>	90	Hook&Loop	Sleeves	Sleeves		On request	12014 11190 010
Jacket	<b>CK-12/Z</b>	90	Hook&Loop	Sleeves	Sleeves+Back		On request	12014 11190 020
Jacket	<b>CK-12/Z</b>	90	Snap fastener	Sleeves	Sleeves		On request	12014 11190 110
Jacket	<b>CK-12/Z</b>	90	Snap fastener	Sleeves	Sleeves+Back		On request	12014 11190 120
Jacket	<b>CK-12/Z</b>	100	Hook&Loop	Sleeves	Sleeves		On request	12014 11100 010
Jacket	<b>CK-12/Z</b>	100	Hook&Loop	Sleeves	Sleeves+Back		On request	12014 11100 020
Jacket	<b>CK-12/Z</b>	100	Snap fastener	Sleeves	Sleeves		On request	12014 11100 110
Jacket	<b>CK-12/Z</b>	100	Snap fastener	Sleeves	Sleeves+Back		On request	12014 11100 120
Foundry Coat	<b>AW-1/Y</b>	110	Hook&Loop	Sleeves	Sleeves	Walking slit	On request	12008 41110 011
Foundry Coat	<b>AW-1/Y</b>	110	Hook&Loop	Sleeves	Sleeves	Walking pleat	On request	12008 41110 012
Foundry Coat	<b>AW-1/Y</b>	110	Hook&Loop	Sleeves	Sleeves+Back	Walking slit	On request	12008 41110 021
Foundry Coat	<b>AW-1/Y</b>	110	Hook&Loop	Sleeves	Sleeves+Back	Walking pleat	On request	12008 41110 022
Foundry Coat	<b>AW-1/Y</b>	110	Snap fastener	Sleeves	Sleeves	Walking slit	On request	12008 41110 111
Foundry Coat	<b>AW-1/Y</b>	110	Snap fastener	Sleeves	Sleeves	Walking pleat	On request	12008 41110 112
Foundry Coat	<b>AW-1/Y</b>	110	Snap fastener	Sleeves	Sleeves+Back	Walking slit	On request	12008 41110 121
Foundry Coat	<b>AW-1/Y</b>	110	Snap fastener	Sleeves	Sleeves+Back	Walking pleat	On request	12008 41110 122
Foundry Coat	<b>AW-1/Y</b>	120	Hook&Loop	Sleeves	Sleeves	Walking slit	On request	12008 41120 011
Foundry Coat	<b>AW-1/Y</b>	120	Hook&Loop	Sleeves	Sleeves	Walking pleat	On request	12008 41120 012
Foundry Coat	<b>AW-1/Y</b>	120	Hook&Loop	Sleeves	Sleeves+Back	Walking slit	On request	12008 41120 021
Foundry Coat	<b>AW-1/Y</b>	120	Hook&Loop	Sleeves	Sleeves+Back	Walking pleat	On request	12008 41120 022
Foundry Coat	<b>AW-1/Y</b>	120	Snap fastener	Sleeves	Sleeves	Walking slit	On request	12008 41120 111
Foundry Coat	<b>AW-1/Y</b>	120	Snap fastener	Sleeves	Sleeves	Walking pleat	On request	12008 41120 112
Foundry Coat	<b>AW-1/Y</b>	120	Snap fastener	Sleeves	Sleeves+Back	Walking slit	On request	12008 41120 121
Foundry Coat	<b>AW-1/Y</b>	120	Snap fastener	Sleeves	Sleeves+Back	Walking pleat	On request	12008 41120 122
Foundry Coat	<b>AW-1/Y</b>	130	Hook&Loop	Sleeves	Sleeves	Walking slit	On request	12008 41130 011
Foundry Coat	<b>AW-1/Y</b>	130	Hook&Loop	Sleeves	Sleeves	Walking pleat	On request	12008 41130 012
Foundry Coat	<b>AW-1/Y</b>	130	Hook&Loop	Sleeves	Sleeves+Back	Walking slit	On request	12008 41130 021
Foundry Coat	<b>AW-1/Y</b>	130	Hook&Loop	Sleeves	Sleeves+Back	Walking pleat	On stock	12008 41130 022
Foundry Coat	<b>AW-1/Y</b>	130	Snap fastener	Sleeves	Sleeves	Walking slit	On request	12008 41130 111
Foundry Coat	<b>AW-1/Y</b>	130	Snap fastener	Sleeves	Sleeves	Walking pleat	On request	12008 41130 112
Foundry Coat	<b>AW-1/Y</b>	130	Snap fastener	Sleeves	Sleeves+Back	Walking slit	On request	12008 41130 121
Foundry Coat	<b>AW-1/Y</b>	130	Snap fastener	Sleeves	Sleeves+Back	Walking pleat	On request	12008 41130 122



# TEMPEX®-TREME HEAT

## TEMPEX®-TREME HEAT COMFORT Plus

ITEM	MATERIAL	LENGTH (CM)	CLOSURE	ERGONOMICS	VENTILATION	WALKING COMFORT	AVAILABILITY	PART NUMBER
Foundry Coat	<b>AW-1/Y</b>	140	Hook&Loop	Sleeves	Sleeves	Walking slit	On request	<b>12008 41140 011</b>
Foundry Coat	<b>AW-1/Y</b>	140	Hook&Loop	Sleeves	Sleeves	Walking pleat	On request	<b>12008 41140 012</b>
Foundry Coat	<b>AW-1/Y</b>	140	Hook&Loop	Sleeves	Sleeves + Back	Walking slit	On request	<b>12008 41140 021</b>
Foundry Coat	<b>AW-1/Y</b>	140	Hook&Loop	Sleeves	Sleeves + Back	Walking pleat	On request	<b>12008 41140 022</b>
Foundry Coat	<b>AW-1/Y</b>	140	Snap fastener	Sleeves	Sleeves	Walking slit	On request	<b>12008 41140 111</b>
Foundry Coat	<b>AW-1/Y</b>	140	Snap fastener	Sleeves	Sleeves	Walking pleat	On request	<b>12008 41140 112</b>
Foundry Coat	<b>AW-1/Y</b>	140	Snap fastener	Sleeves	Sleeves + Back	Walking slit	On request	<b>12008 41140 121</b>
Foundry Coat	<b>AW-1/Y</b>	140	Snap fastener	Sleeves	Sleeves + Back	Walking pleat	On request	<b>12008 41140 122</b>
Foundry Coat	<b>CK-12/Z</b>	110	Hook&Loop	Sleeves	Sleeves	Walking slit	On request	<b>12014 41110 011</b>
Foundry Coat	<b>CK-12/Z</b>	110	Hook&Loop	Sleeves	Sleeves	Walking pleat	On request	<b>12014 41110 012</b>
Foundry Coat	<b>CK-12/Z</b>	110	Hook&Loop	Sleeves	Sleeves + Back	Walking slit	On request	<b>12014 41110 021</b>
Foundry Coat	<b>CK-12/Z</b>	110	Hook&Loop	Sleeves	Sleeves + Back	Walking pleat	On request	<b>12014 41110 022</b>
Foundry Coat	<b>CK-12/Z</b>	110	Snap fastener	Sleeves	Sleeves	Walking slit	On request	<b>12014 41110 111</b>
Foundry Coat	<b>CK-12/Z</b>	110	Snap fastener	Sleeves	Sleeves	Walking pleat	On request	<b>12014 41110 112</b>
Foundry Coat	<b>CK-12/Z</b>	110	Snap fastener	Sleeves	Sleeves + Back	Walking slit	On request	<b>12014 41110 121</b>
Foundry Coat	<b>CK-12/Z</b>	110	Snap fastener	Sleeves	Sleeves + Back	Walking pleat	On request	<b>12014 41110 122</b>
Foundry Coat	<b>CK-12/Z</b>	120	Hook&Loop	Sleeves	Sleeves	Walking slit	On request	<b>12014 41120 011</b>
Foundry Coat	<b>CK-12/Z</b>	120	Hook&Loop	Sleeves	Sleeves	Walking pleat	On request	<b>12014 41120 012</b>
Foundry Coat	<b>CK-12/Z</b>	120	Hook&Loop	Sleeves	Sleeves + Back	Walking slit	On request	<b>12014 41120 021</b>
Foundry Coat	<b>CK-12/Z</b>	120	Hook&Loop	Sleeves	Sleeves + Back	Walking pleat	On request	<b>12014 41120 022</b>
Foundry Coat	<b>CK-12/Z</b>	120	Snap fastener	Sleeves	Sleeves	Walking slit	On request	<b>12014 41120 111</b>
Foundry Coat	<b>CK-12/Z</b>	120	Snap fastener	Sleeves	Sleeves	Walking pleat	On request	<b>12014 41120 112</b>
Foundry Coat	<b>CK-12/Z</b>	120	Snap fastener	Sleeves	Sleeves + Back	Walking slit	On request	<b>12014 41120 121</b>
Foundry Coat	<b>CK-12/Z</b>	120	Snap fastener	Sleeves	Sleeves + Back	Walking pleat	On request	<b>12014 41120 122</b>
Foundry Coat	<b>CK-12/Z</b>	130	Hook&Loop	Sleeves	Sleeves	Walking slit	On request	<b>12014 41130 011</b>
Foundry Coat	<b>CK-12/Z</b>	130	Hook&Loop	Sleeves	Sleeves	Walking pleat	On request	<b>12014 41130 012</b>
Foundry Coat	<b>CK-12/Z</b>	130	Hook&Loop	Sleeves	Sleeves + Back	Walking slit	On request	<b>12014 41130 021</b>
Foundry Coat	<b>CK-12/Z</b>	130	Hook&Loop	Sleeves	Sleeves + Back	Walking pleat	On request	<b>12014 41130 022</b>
Foundry Coat	<b>CK-12/Z</b>	130	Snap fastener	Sleeves	Sleeves	Walking slit	On request	<b>12014 41130 111</b>
Foundry Coat	<b>CK-12/Z</b>	130	Snap fastener	Sleeves	Sleeves	Walking pleat	On request	<b>12014 41130 112</b>
Foundry Coat	<b>CK-12/Z</b>	130	Snap fastener	Sleeves	Sleeves + Back	Walking slit	On request	<b>12014 41130 121</b>
Foundry Coat	<b>CK-12/Z</b>	130	Snap fastener	Sleeves	Sleeves + Back	Walking pleat	On request	<b>12014 41130 122</b>
Foundry Coat	<b>CK-12/Z</b>	140	Hook&Loop	Sleeves	Sleeves	Walking slit	On request	<b>12014 41140 011</b>
Foundry Coat	<b>CK-12/Z</b>	140	Hook&Loop	Sleeves	Sleeves	Walking pleat	On request	<b>12014 41140 012</b>
Foundry Coat	<b>CK-12/Z</b>	140	Hook&Loop	Sleeves	Sleeves + Back	Walking slit	On request	<b>12014 41140 021</b>
Foundry Coat	<b>CK-12/Z</b>	140	Hook&Loop	Sleeves	Sleeves + Back	Walking pleat	On request	<b>12014 41140 022</b>
Foundry Coat	<b>CK-12/Z</b>	140	Snap fastener	Sleeves	Sleeves	Walking slit	On request	<b>12014 41140 111</b>
Foundry Coat	<b>CK-12/Z</b>	140	Snap fastener	Sleeves	Sleeves	Walking pleat	On request	<b>12014 41140 112</b>
Foundry Coat	<b>CK-12/Z</b>	140	Snap fastener	Sleeves	Sleeves + Back	Walking slit	On request	<b>12014 41140 121</b>
Foundry Coat	<b>CK-12/Z</b>	140	Snap fastener	Sleeves	Sleeves + Back	Walking pleat	On request	<b>12014 41140 122</b>
Head protection	<b>CK-12/Z</b>				on both sides		On request	<b>12014 71001 002</b>
Trousers	<b>AW-1/Y</b>			Comfortable waistband		Hook&Loop closure along legs	On stock	<b>12008 21000 001</b>

**AW-1/Y //** Material: 100% Aramide; Grammage: approx. 420g/m<sup>2</sup>; Standards: EN ISO 11612 A1/B1/C4/D3/E3/F2

**CK-12/Z //** Material: 70% Preox, 30% Aramide; Grammage: approx. 360g/m<sup>2</sup>; Standards: EN ISO 11612 A1/B1/C3/D3/E3/F1

**12008**

**12014**

# ► OUR PARTNERS



WE SUCCESSFULLY COOPERATE WITH THE FOLLOWING COMPANIES IN THE FIELD OF ACCESSORIES:



## JOINTLY STRONG

Fair and cooperative collaboration with all our partners has always been very important to us.

In order to be able to offer our customers the best possible quality, we also rely on long-term cooperation with renowned manufacturers for our accessories, so that we can continue to meet the highest standards for both.

# ► 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 232.

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 cm <sup>2</sup> !		<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 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 cm <sup>2</sup> !	<b>Manufacture:</b> Material qualities not shown in our catalogue (see pages 232-235), 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 320 x 120 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 cm <sup>2</sup> has to be available a recent test report according to EN 15025.			In order to comply with the determined high-visibility protection classes, the manufacturer's instructions regarding the maximum available space for the emblem application must be considered when selecting the emblem sizes.*  At least 5 cm distance to reflective stripes are to be kept.	Woven badges larger than 20 qcm must be explicitly checked.	Woven emblems can be applied without affecting the thermal insulation specified by the manufacturer.*

\* The details of the maximum available space for the emblem application are shown on our product data sheets for each sales item. Please contact our sales representatives for more information (see page 231).

# ► READY TO WEAR



## CONFIGURE YOUR PPE YOURSELF ONLINE

WITH HB READY TO WEAR.  
ONE SYSTEM, MORE THAN 1,000 POSSIBILITIES.

4 articles, 216 colour combinations, 12 equipment variants, 28 sizes. Whether jacket or overall, red or black, with reflective or without, leg pocket or knee pocket: with our online configurator you can easily create your own personalised outfit.

### MAXIMUM FLEXIBILITY AND FAST DELIVERY

You can also enjoy a delivery time of just 21 days and an order quantity from just 15 parts per item\*.  
WITH HB READY TO WEAR.

	THREE OPTIONS				PART	COLOURS					
	REFL- ECTIVE STRIPES	KNEE POCKETS	2ND COMBAT POCKET	1 RULER OR POCKET		BLACK	MEDIUM GREY	DARK BLUE	ROYAL NAVY	RED	YELLOW
JACKET	<input type="checkbox"/>			<input type="checkbox"/>	YOKE	<input type="checkbox"/>					
					TORSO/ARMS	<input type="checkbox"/>					
					PIPES	<input type="checkbox"/>					
TROUSERS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> OR <input type="checkbox"/>		LEGS	<input type="checkbox"/>					
					POCKET PLEAT	<input type="checkbox"/>					
					PIPES	<input type="checkbox"/>					
BIB AND BRACE TROUSERS	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> OR <input type="checkbox"/>		LEGS	<input type="checkbox"/>					
					POCKET PLEAT	<input type="checkbox"/>					
					PIPES	<input type="checkbox"/>					
COVERALL	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> OR <input type="checkbox"/>		TORSO/ARMS/LEGS	<input type="checkbox"/>					
					YOKE + POCKET PLEAT	<input type="checkbox"/>					
					PIPES	<input type="checkbox"/>					

\* Outside Germany, delivery will take a few days longer. Up to a max. of 60 units. Delivery times for larger quantities are available on request.



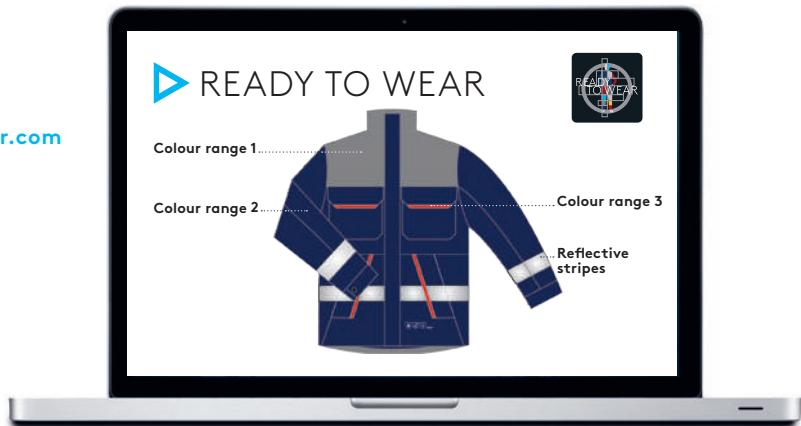
Optional:  
Reflective stripes



Optional:  
Second combat pocket  
or ruler pocket

USE OUR READY TO WEAR CONFIGURATOR  
TO DESIGN YOUR OWN PROTECTIVE CLOTHING!

Come and try online for  
yourself at:  
[www.hb-ready-to-wear.com](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 / $\text{m}^2 \cdot \text{K}/\text{W}$ 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		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	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	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														
	09028 1K009 000	Jacket order picker with acrylic fur lining	0,344	(B) AP 2 x	8°C	-7°C	15°C	1°C	-5°C	-22°C	3°C	-11°C	-23°C	-42°C	-11°C	-27°C
	09028 2K006 000	Trousers order picker with acrylic fur lining														
	09045 1K000 000	Jacket order picker	0,448	(B) AP 2 x	1°C	-18°C	9°C	-7°C	-15°C	-35°C	-4°C	-22°C	-37°C	-49°C	-22°C	-40°C
	09045 2K000 000	Trousers order picker														
	09045 1K001 000	Ladies' jacket order picker	0,448	(B) AP 2 x	1°C	-18°C	9°C	-7°C	-15°C	-35°C	-4°C	-22°C	-37°C	-49°C	-22°C	-40°C
	09045 2K001 000	Ladies' trousers order picker														
	09045 3K000 000	Coverall order picker	0,411	(B) AP 2 x	4°C	-14°C	11°C	-5°C	-11°C	-31°C	-2°C	-18°C	-32°C	-49°C	-18°C	-36°C
	09045 4K000 000	Coat visitor	0,292	(R) AP 2 x	11°C	-2°C	18°C	5°C	0°C	-16°C	7°C	-6°C	-16°C	-33°C	-5°C	-20°C
	09046 1K012 001	Jacket forklift driver	0,404	(B) AP 2 x	5°C	-12°C	13°C	-3°C	-9°C	-28°C	0°C	-16°C	-29°C	-49°C	-16°C	-33°C
	09046 2K007 001	Trousers forklift driver														
COMFORT	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														
	01183 1K007 002	Jacket	0,391	(B) AP 2 x	5°C	-12°C	13°C	-3°C	-9°C	-28°C	0°C	-16°C	-29°C	-49°C	-16°C	-33°C
	01183 2K008 006	Trousers														
	01183 1K008 001	Ladies' jacket	0,391	(B) AP 2 x	5°C	-12°C	13°C	-3°C	-9°C	-28°C	0°C	-16°C	-29°C	-49°C	-16°C	-33°C
	01183 2K003 003	Ladies' trousers														
	01183 1K005 000	Jacket order picker	0,435	(B) AP 2 x	2°C	-16°C	10°C	-6°C	-14°C	-34°C	-3°C	-21°C	-35°C	-49°C	-21°C	-39°C
	01183 2K002 000	Trousers order picker														
	01183 1K006 000	Ladies' jacket order picker	0,435	(B) AP 2 x	2°C	-16°C	10°C	-6°C	-14°C	-34°C	-3°C	-21°C	-35°C	-49°C	-21°C	-39°C
	01183 2K003 000	Ladies' trousers order picker														
	01183 3K001 000	Coverall order picker	0,443	(B) AP 2 x	2°C	-17°C	9°C	-7°C	-14°C	-35°C	-4°C	-21°C	-36°C	-49°C	-21°C	-40°C
	01183 4K001 000	Coat visitor	0,274	(B) AP 2 x	12°C	-1°C	19°C	6°C	2°C	-13°C	8°C	-4°C	-13°C	-30°C	-3°C	-17°C
HYGIENE	01183 1K013 000	Jacket forklift driver	0,508	(B) AP 2 x	-3°C	-23°C	5°C	-12°C	-21°C	-42°C	-9°C	-27°C	-45°C	-49°C	-28°C	-48°C
	01183 2K010 000	Trousers forklift driver														
	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
	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														
COLD PRO	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														
	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
COLD PRO	01174 15001 000	Jacket	0,420	(C) AP 2 x	3°C	-14°C	11°C	-5°C	-12°C	-31°C	-2°C	-18°C	-33°C	-49°C	-19°C	-36°C
	01174 25002 000	Trousers														

If a cold protection suit is selected from this table for a specific workplace, it must be ensured that the hand and foot coverings also have 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: 1clo = 0,155 m<sup>2</sup>K/W.

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

# ► STANDARDS



## IEC 61482-2

IEC 61482-2:2009 (preceding standards: EN 61482-1-2 and ENV 50354)

### Protective clothing against the thermal hazards of an electric arc

This Type of protective clothing is intended to protect the wearer against thermal effects of a defined electric fault arc according to the tested protection level e.g. protection class.

The Standard defines general requirements and requires an electric arc flash test. The material and garments tests are carried out either according to IEC 61482-1-1 (determination of the ATPV and the Elim value) or IEC 6148-1-2 (Determination of the arc protection class APC1/APC2). The tested protective clothing does not replace electrically insulating protective clothing such as clothing in accordance with EN 50286:1999, "Electrically insulating protective clothing for work on low-voltage installations". Complete personal protection also requires suitable protective equipment such as safety helmet/visor, protective gloves etc.



## EN ISO 11611

(preceding standard: EN 470-1)

### Protective clothing for use in welding and related processes

This Type of protective clothing is intended to protect the wearer against weld spatter (small splashes of molten metal), short-term contact with flames as well as radiant heat from the electric arc. Under normal welding conditions, it offers limited electrical insulation against electric conductors of up to 100 V DC. This standard sets out two classes with specific performance requirements (class 1 is for lower requirements, class 2 for higher requirements).



## EN ISO 11612

(preceding standard: EN 531)

### Clothing to protect against heat and flame

This international standard specifies the minimum requirements for clothing protecting against heat and/or flames. In a wide variety of fields of application, the wearer can also be exposed to convective, radiant or contact heat, as well as splashes of molten metal. Within the standard, letters A-F define the performance levels relating to the protective properties listed above.



## EN 1149-5

(preceding standard: EN 1149-5)

### Electrostatic properties -

### Material performance and design requirements

This standard specifies the requirements to be met by the materials used in and the design of electrostatically conductive protective clothing forming part of a fully earthed system to avoid ignitable discharge. The antistatic function is defined as minimising the risk of flammable discharge (explosion). The requirements may not be sufficient in a combustible atmosphere

enriched with oxygen. Protective clothing certified by this standard is not considered protection against mains voltage.



## EN 61340

### Protection of electronic devices from electrostatic phenomena

Protective clothing with this standard is suitable for the manufacture of products, which are sensitive to discharges of 100V or more. Persons with ESD protective clothing are therefore protecting products during the manufacturing process from electrical discharges, which can happen with clothing that is not suitable for EPA, e.g. through friction or electrostatic induction (magnetic field, field effects) and/or material separations, and are therefore preventing damage to the component.



## EN 13034 Type 6

### Protective clothing against liquid chemicals - Performance requirements for chemical protective clothing offering limited protective performance against liquid chemicals

This standard specifies the minimum requirements to be met by protective clothing against chemicals offering limited protective effect, including reusable protective clothing. Protective clothing against chemicals offering limited protective effect is for use where there is a possibility of exposure to minor chemical spraying, liquid aerosols or low-pressure spattering.



## EN ISO 20471

### (preceding standard: EN 471) Warning clothing - Test methods and requirements

EN 20471 sets out the requirements to be met by protective clothing which visually highlights wearers. This is done to make them clearly visible in dangerous situations under all light conditions during the daytime and when vehicle headlights are shone at them in the darkness. This standard specifies performance requirements to be met by the protective clothing in terms of colour and retro-reflection, along with minimum surface dimensions and requirements to be met by materials used in the smallest possible garment size.



## EN 17353

### Protective Wear - Equipment for enhanced visibility in medium risk situations

This standard specifies the requirements for enhanced visibility equipment for clothing and products capable of visually signalling the presence of the wearer. Enhanced visibility equipment is intended to provide conspicuity to the wearer's presence in medium risk situations in all daylight conditions and/or when illuminated by vehicle headlights or searchlights in the dark. Performance requirements are included for colour and retroreflectivity, as well as for the minimum area and arrangement of materials in the protective equipment.



## EN 343

### Protective clothing - Protection against rain

Specifies requirements and test methods for materials and seams used in clothing to protect against precipitation (e.g. rain, snow-flakes), fog and ground humidity. Waterproofness and resistance to water vapour are the properties that must be tested and indicated on the label. The various classes for resistance to water vapour provide an indication for the recommended wearing time in different ambient temperatures.



## EN 13758-2

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

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



## EN 14058

### Protective clothing - Garments for protection against cool environments

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



**EN 342**  
**Protective clothing – Ensembles and garments for protection against cold.**

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

Insulation values TEMPEX® Cold Protection: Please note our insulation values table for our TEMPEX® cold protective clothing on page 245. 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 14404-4**  
**Knee protection for work in a kneeling position**

European standard EN 14404-4 defines procedures and requirements for the combination of interoperable knee pads and clothing. The selection of the appropriate performance level of the knee pad is based on the respective certification and testing of the specific interoperable knee pad. The decision on the appropriate level is solely up to the user. The standard specifies four performance levels. Level 0 describes the lowest and level 4 the highest performance level.

**EN 50365**

**Electrically insulating helmets for use on low voltage installations**

This standard defines the requirements for electrically insulating helmets for protection when working on or near parts under alternating voltage of up to 1000 V (AC) or direct voltage up to 1500 V (DC). If it is used in combination with other electrically insulating PPE, the helmet should prevent dangerous electric current passing through the head as well as electric shocks. All helmets must also meet the requirements according to EN 397.

**Hupf 2**

**Manufacturing and testing description for universal protective clothing for firemen (Part 2 – Firemen's trousers)**

Hupf 2 specifies the minimum requirements to achieve sufficient basic protection for all firemen to protect them against general risks of firefighting service. It applies to the firemen's protective clothing described therein and contains a revision of safety requirements based on the current EN ISO 11612:2015 with regard to materials, sizes, design and marking, as well as adapted test methods.

The firemen trousers shall comply with the applicable EN ISO 11612 "Protective clothing - Clothing for protection against heat and flame", the applicable EN ISO 13688 "Protective clothing, General requirements" and this "Manufacturing and testing description for a universal protective clothing for firemen (HuPF)". The protective clothing for firemen is intended to protect the wearer from the hazards of firefighting activities together with the other personal protective equipment required in each case.

All products pictured in this catalogue are certified according to the product specified standards.

Products with reflective stripes can provide better visibility. They are not automatically certified according to EN ISO 20471 or EN 17353 but only if the product is labelled accordingly.

# ► SIZES AND CARE

## MEN

Unisex	3XS	2XS	XS	S	M	L	XL	2XL	3XL	4XL	5XL	
Regular sizes			40	42	44	46	48	50	52	54	56	58
Long sizes men			86	88	90	94	98	102	106	110	114	118
Short sizes men			20	21	22	23	24	25	26	27	28	29
Double sizes			38/40	42/44		46/48	50/52	54/56	58/60	62/64	66/68	70/72
Long double sizes			82/86	88/90		94/98	102/106	110/114	118/122	126/130	134/138	
Shirt collar width			35/36	37/38		39/40	41/42	43/44	45/46	47/48	49/50	51/52
												53/54

## WOMEN

Unisex	3XS	2XS	XS	S	M	L	XL	2XL	3XL	4XL	
Regular sizes			30	32	34	36	38	40	42	44	46
Long sizes ladies						72	76	80	84	88	92
Short sizes ladies						18	19	20	21	22	23
Double sizes		28/30	32/34		36/38	40/42	44/46	48/50	52/54	56/58	

## VEST

Regular sizes	1	2	3	4
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## UNDERWEAR

Regular sizes	4	5	6	7	8	9	10
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## CHILDREN

Child's sizes	122	128	134	140	146	152	158	164	170	176	182	188
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## HEADGEAR

Head Cover Cold Protection & Cleanroom	0/54	1/56	2/58	3/60	4/62	5/64	6/66	7/68	8/70			
Visor Cap Cleanroom	1/54-56	2/57-59	3/60-63									

## BELTS

Belt length	90	100	110	120	130	140	150					
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## GLOVES

Cold Protection	6	7	8	9	10	11	12					
Heat Protection						11	12					

## SOCKS, SHOES & BOOTS

Socks		37/38		39/40		41/42		43/44		45/46		47/48
Shoes/Gaiters	36	37	38	39	40	41	42	43	44	45	46	47

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

Sizes available from stock.

Sizes produced after receipt of order; usually not on stock. Please contact our sales staff for more information.

Sizes below each other correspond to each other, see framed example size M.



The 21 TO WEAR® icon indicates products which are available via our high-speed delivery service 21 TO WEAR® within 21 days. Please find more information at [www.21towear.com](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 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.

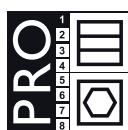
## NOTE ON TEMPEX® COLD PROTECTION GARMENTS

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.



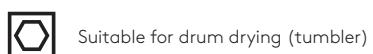
- Please hang up the clothing after each use and dry it in a sufficiently heated and well-ventilated room.
- Avoid pressing the garments during storage – e.g. in narrow lockers.
- Never hang or lay the clothing onto hot heat sources.
- The garments should never be exposed to temperatures above +50 °C.
- 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 EN ISO 15797 for washing and drying processes in industrial laundry. Only textiles that are resistant to the conditions of these care procedures can be labelled with a care symbol for industrial laundry.

Drying symbols:



Washing symbol:



The numbers refer to the eight EN 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.



## ALSO FOR LADIES

These collections offer garments for men and women.



## FOR LADIES

Collections exclusively for women.



## 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.



## HIGH-SPEED DELIVERY SERVICE

These products are available in 21 days (Germany). Our PPE service for urgent needs. Abroad delivery takes few days more.



## ON REQUEST

We supply these items on request, starting from one piece. Delivery time is approximately 6 to 8 weeks.



## 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.



## LIGHT-WEIGHT FABRIC

If you see this icon the product line is manufactured with extraordinarily light-weight fabrics.



## METAL-FREE

Items with this label are manufactured from 100% metal-free materials.

## ATPV = Arc Thermal Performance Value:

Thermal characteristic value for the impact energy on a textile material at which there is a 50 % possibility of second-degree burns.

## EBT50 = Energy Breakopen Threshold:

Energy threshold at which there is a 50 % chance that the textile material will break open.

## ELIM = Incident Energy Limit

Impact energy limit: Mean value of three determined values that lie below the Stoll curve (basis is the ATPV) and are additionally not broken up (basis is the EBT50). Protects the wearer 100 % compared to ATPV and EBT50.

All values – ATPV and EBT50 – are specified in cal/cm<sup>2</sup> or kJ/m<sup>2</sup> = amount of heat per unit area and show the load limits of the material or the material layer structures. The higher the value, the better the protection.

## HAF = Heat Attenuation Factor:

In addition to EBT and ATPV, the heat attenuation factor, the HAF value, is determined. It indicates the percentage of heat that can be kept out when it strikes a flame-retardant material. Specified in %.

## 4kA – 7kA/4kA – 7kA

Our arc fault protective clothing is embroidered on the outside with these kilo-ampere (kA) specifications, so that the wearer can directly identify which protection the garment provides.

- 4kA: the garment has class 1 arc fault protection all round.
- 7kA/4kA: the garment has class 2 arc fault protection in the 2-layer areas (jacket front, sleeves and trouser front).
- 7kA: the garment has arc fault protection class 2 all around.

## Reflective stripes

Products with reflective stripes are not automatically certified according to EN ISO 20471 or EN 17353, but only if they are marked accordingly in the label.



# ► CUSTOMER SERVICE

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*be safe. we care.*

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