

**QUICK** 

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Your health and your safety are our most important aim when creating PPE protective clothing. We at teamdress align all our planning and manufacturing with this goal. Benefit from our experience of over 100 years in the manufacture of workwear.

# **PPE NORMS**

We operate fully in accordance with the PPE Regulation (EU) 2016/425. All our PPE items are certified in compliance with the relevant standards for the relevant area of application. Wherever possible and appropriate, we exceed the requirements of these standards.

### PPE APPLICATION

In addition to multi-norm clothing, we offer specific clothing solutions for all PPE-relevant functional areas with the objective of optimizing the combination of protection and work effectiveness.

### PPE DEVELOPMENT

In addition to the standards, we pay particular attention to your feedback. These suggestions have effectuated that we are constantly using new fabrics with improved properties; that we are changing features in the collections; that components, cuttings and manufacturing have been adapted; and that we are constantly increasing the durability of our products.

### PPE SUSTAINABILITY

Increased durability, especially in industrial laundry, fit accuracy and wearing comfort result in a longer lifetime of our products. In conjunction with certification to various (socio-) ecological standards, we live resource conservation; and we will continue to improve it.

We will gladly advise you on the selection of suitable protective clothing. Together, we can ensure that your employees are equipped with optimal protective clothing for their activities and their working environment.

all collections are marked with a letter - the emblem sizes and positions are shown from page **96** onwards

ing to their certification, the collections are on the pages with coloured standards





+ our sustainable collections



- + The seal is issued by the Federal Ministry for Economic Cooperation and Development.
- + The Green Button seal makes sustainably produced textiles visible in trade.
- + The Green Button sets binding requirements to ensure that people and nature are not harmed.

Learn more at: www.g-k.eu/teamdress



- + FAIRTRADE cotton raw material model
- + Because farmers can sell larger quantities of their cotton through the Fairtrade raw material model for cotton, they are offered fairer trading conditions as well as new ways to bring about social change and greater environmental protection.

Find out more at www.info.fairtrade.net/sourcing

			ECOROVER		HIGH-VIS-MULTINORM high-vis yellow/navy blue		HIGH-VIS-MULTINORM high-vis orange/navy blue			HIGH-MULTINORM navy blue			HIGH-VIS- MULTINORM		MULTINORM Weather	
		Welder	Safety	Safety Plus	Heavy	Light	Heavy	Light		Heavy	Light	Weath	er	Fleece	Softshell	
		320 g/m²  47% modacrylic 32% cotton • 20,5% polyamide 0,5% antistatic	265 g/m²  48,5% modacrylic 34% cotton o 17% polyamide 0,5% antistatic	320 g/m² 175 g/m² 47% modacrylic 32% cotton 0 20,5% polyamide 0,5% antistatic	450 g/m² 52% cotton 22% modacrylic 19% viscose 6% para-aramid 1% antistatic	250 g/m²  42% modacrylic 25% cotton 22% polyamide 10% viscose 1% antistatic	320 g/m² 170 g/m² 31% polyester 28% modacrylic 20% aramid 20% viscose FR 1% antistatic	320 g/m² 31% polyester 28% modacrylic 20% aramid 20% viscose FR 1% antistatic		450 g/m² 52% cotton 22% modacrylic 19% viscose 6% para-aramid 1% antistatic	250 g/m²  42% modacrylic 25% cotton 22% polyamide 10% viscose 1% antistatic	315 g/ 55% mode 43% cotto 2% antis polyureti membra	crylic n atic ane	360 g/m² 170 g/m² 48% modacrylic 32% cotton 18% polyester 19% viscose 2% antistatic	515 g/m² 38% modacrylic 28% cotton 17% aramid 7,5% polyester 5% polyurethane 4% polyamide 0,5% antistatic	
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# Feels so right

- + Lyocell fibers (TENCEL™) are made from wood.
- + Environmentally conscious manufacturing process with more than 99% recycling of process materials into the production cycle
- + Absorbs moisture more efficiently than cotton, dry feeling.

TENCEL™ is a brand of Lenzing AG



o a constant of the constant o

+ teamdress is a member of









- + STANDARD 100 by OEKO-TEX®
- + Compliance with legal requirements for textile-relevant chemicals
- + Annual re-evaluation and further development of defined limit values and criteria
- + Globally uniform and scientifically based test criteria

TM		FOUNDRY CLOTHING with welding protection		-WELDING-PROTECTION-			NORM c Flash	MULTINORM with Arc Flash	ADDITION	AL ITEMS	HIGH VISIBILITY			
		Class 2	Class 1	Class 1	Class 2	Class 1	Class 1	Class 2	Polo, Sweat	Shirts	Two-tone	1-, 2-colour	Weather	
nt e made more		430 g/m² 52% cotton 37% modacrylic 10% viscose 1% antistatic	340 g/m² 50% cotton 39% modacrylic 10% viscose 1% antistatic	350 g/m² 64% cotton 35% polyester 1% antistatic	420 g/m² 100% cotton	300 g/m² 50% lyocell o 30% cotton 19% polyester 1% antistatic	300 g/m² 50% lyocell o 30% cotton 19% polyester 1% antistatic	330 g/m² 140 g/m² 50% lyocell o 30% cotton 19% polyester 1% antistatic	160 g/m² - 260 g/m²	170 g/m² - 190 g/m²	270 g/m² 50% polyester 50% cotton o	Polo Vests Softshell jackets Fleece jackets	210 g/m² 100% polyester 2-layer laminate	
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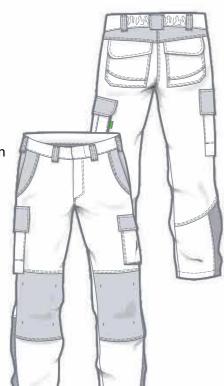




**SIZES:** 44 - 66

90 - 114 22 - 33

- + Plastic buttons and zips
- + 7 wide belt loops
- + Waistband fastener with button
- + Elasticated back waistband
- + 2 side pockets
- + 2 hip pockets with flap and hidden snap fasteners
- + 1 reinforced ruler pouch with flap and hidden snap fasteners
- + 1 cargo pocket with flap and hidden snap fastener and velcro + attached phone pocket
- + Zip fly
- + Knee reinforcement with opening for knee pads, with velcro



# **DUNGAREES**

# **ITEM 7502**

**SIZES:** 44 - 66 90 - 114

22 - 33

- + Plastic buttons and zips
- + Adjustable elastic straps with side release buckles
- + High bib back
- + 1 bib pocket with flap and hidden snap fasteners
- + 1 inner bib pocket with hidden zip
- + 2 side pockets
- + 2 hip pockets with flap and hidden snap fasteners
- + 1 reinforced ruler pouch with flap and hidden snap fasteners
- + 1 cargo pocket with flap and hidden snap fastener and velcro + attached phone pocket
- + 2 side fasteners with jeans button, snap fastener and gusset
- + Zip fly
- + Knee reinforcement with opening for knee pads, with velcro









320 g/m<sup>2</sup>



939 navy blue black/blue

**MATERIAL:** 

47% modacrylic 32% cotton 20,5% polyamide 0.5% antistatic











988 black

grey





574 blue navy blue/grey

# **JACKET**





**SIZES:** 44 - 66 90 - 114

- + Plastic buttons and zips
- + Stand-up collar
- + Front with hidden snap fasteners
- + 2 chest pockets with flap and hidden snap fasteners
- + 2 side pockets with flap and hidden snap fastener
- + 1 inner chest pocket with hidden snap fastener
- + Adjustable cuffs with snap fasteners



939 navy blue black/blue



988 black grey



636 grey black/red



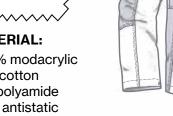
262 grey black



# **MATERIAL:**

48,5% modacrylic 34% cotton 17% polyamide 0.5% antistatic



















**SIZES:** 44 - 66, 90 - 114 22 - 33

- + Plastic buttons and zips
- + 7 wide belt loops
- + Waistband fastener with button
- + Elasticated back waistband
- + 2 side pockets
- + 2 hip pockets with flap and hidden snap fasteners
- + 1 reinforced ruler pouch with flap and hidden snap fasteners
- + 1 cargo pocket with flap and hidden snap fastener and velcro + attached phone pocket
- + Zip fly
- + Knee reinforcement with opening for knee pads, with velcro



939 navy blue/ black/blue



988 black grey

636 grey black/red



Vinherent flame retardant

574

blue

navy blue/grey







EN ISO 11611:2015 Class 1 A1

EN 1149-5:2018

IEC 61482-2:2018

APC 1



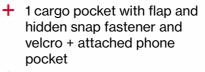


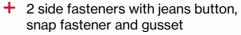


**DUNGAREES** 

**SIZES:** 44 - 66, 90 - 114, 22 - 33

- + Plastic buttons and zips
- + Adjustable elastic straps with side release buckles
- + High bib back
- + 1 bib pocket with flap and hidden snap fasteners
- + 1 inner bib pocket with hidden zip
- + 2 side pockets
- + 2 hip pockets with flap and hidden snap fasteners
- + 1 reinforced ruler pouch with flap and hidden snap fasteners





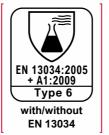


+ Knee reinforcement with opening for knee pads, with velcro



















939 navy blue black/blue



636 grey black/red





# **MATERIAL:**

48,5% modacrylic 34% cotton 17% polyamide 0,5% antistatic



988

black







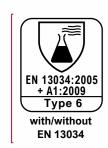














# **MATERIAL:**

47% modacrylic 32% cotton 20,5% polyamide 0,5% antistatic

# LINING:

48,5% modacrylic 34% cotton 17% polyamide 0,5% antistatic



black grey



574 blue navy blue/grey



939 navy blue black/blue



# **JACKET**

**▲ ITEM 4900** 

**I** ITEM 6900

**SIZES:** 44 - 66 90 - 114

- + Plastic buttons and zips
- + Stand-up collar
- snap fasteners
- snap fasteners



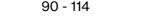












- + Front with hidden
- + 2 chest pockets with flap and hidden snap fasteners
- + 2 side pockets with flap and hidden snap fastener
- + 1 inner chest pocket with hidden snap fastener
- + Adjustable cuffs with







21



blue navy blue/grey



939 navy blue black/blue

**(** 

# **TROUSERS**





90 - 114 22 - 33

- + Plastic buttons and zips
- + 7 wide belt loops
- + Waistband fastener with button
- + Elasticated back waistband
- + 2 side pockets
- + 2 hip pockets with flap and hidden snap fasteners
- + 1 reinforced ruler pouch with flap and hidden snap fasteners
- + 1 cargo pocket with flap and hidden snap fastener and velcro + attached phone pocket
- + Zip fly
- + Knee reinforcement with opening for knee pads, with velcro



# **MATERIAL:**

47% modacrylic 32% cotton 20,5% polyamide 0,5% antistatic

#### LINING:

48,5% modacrylic 34% cotton 17% polyamide 0,5% antistatic

Vinherent flame retardant









blue

navy blue/grey

navy blue black/blue



636



black

grey

grey black/red

**DUNGAREES** 





**SIZES:** 44 - 66 90 - 114 22 - 33

- + Plastic buttons and zips
- + Adjustable elastic straps with side release buckles
- + High bib back
- + 1 bib pocket with flap and hidden snap fasteners
- + 1 inner bib pocket with hidden zip
- + 2 side pockets
- + 2 hip pockets with flap and hidden snap fasteners
- + 1 reinforced ruler pouch with flap and hidden snap fasteners
- + 1 cargo pocket with flap and hidden snap fastener and velcro + attached phone pocket
- + 2 side fasteners with jeans button, snap fastener and gusset
- + Zip fly
- Knee reinforcement with opening for knee pads, with velcro



SUPPORTING

FAIRTRADE

GRÜNER







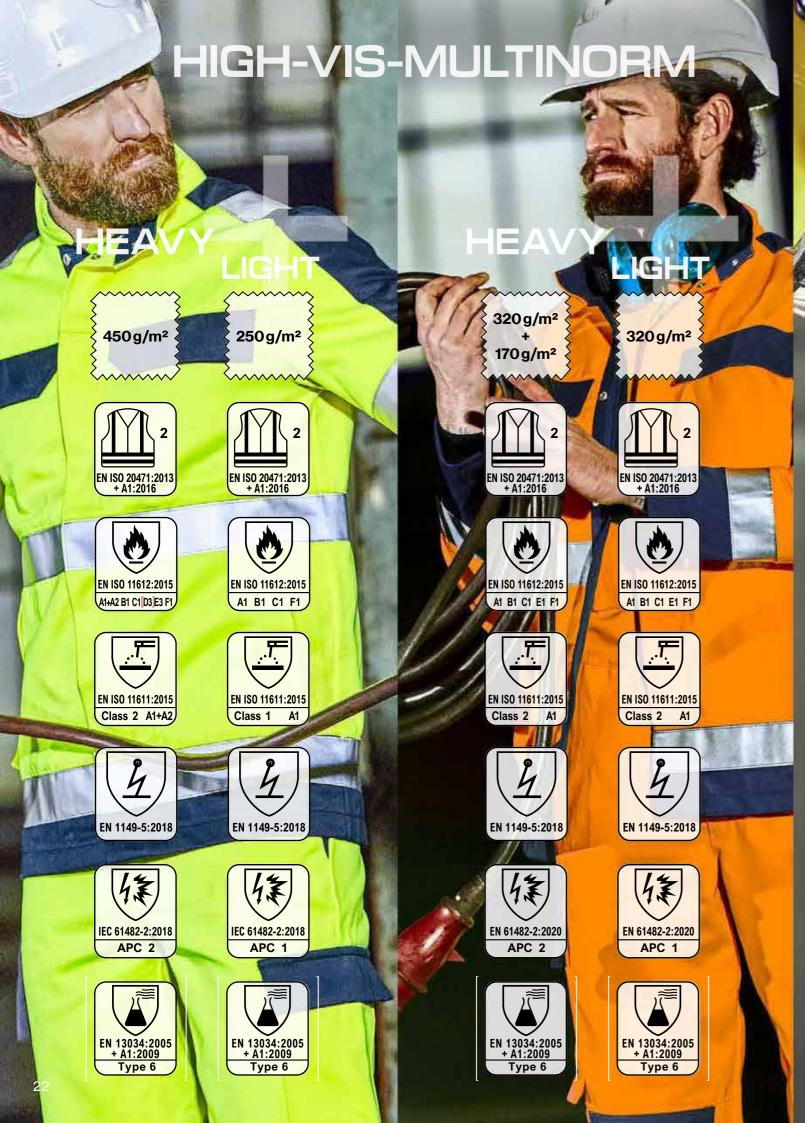














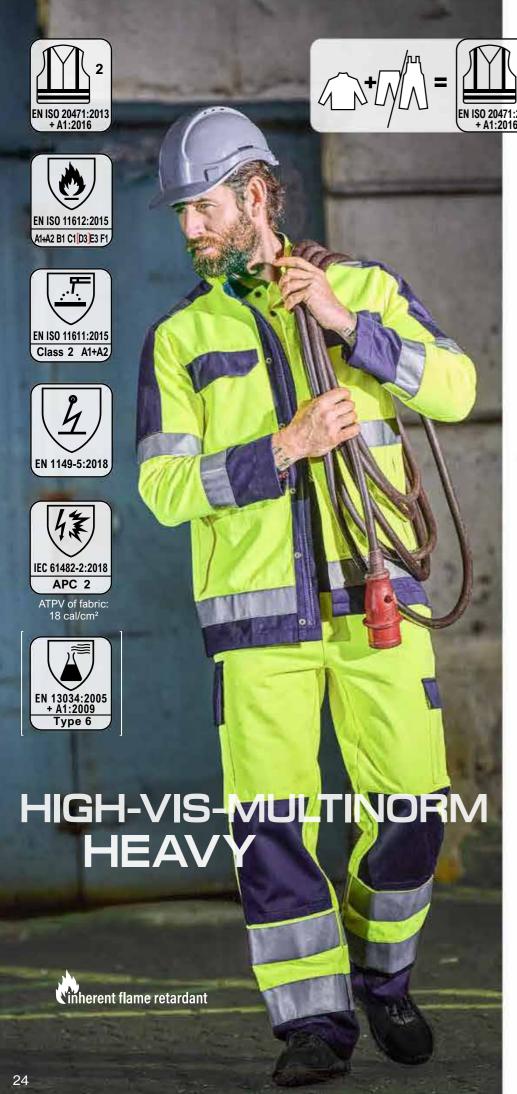


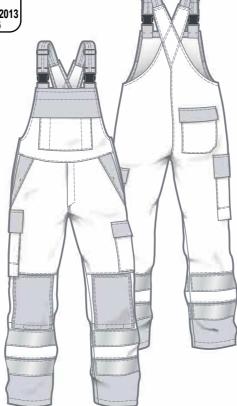


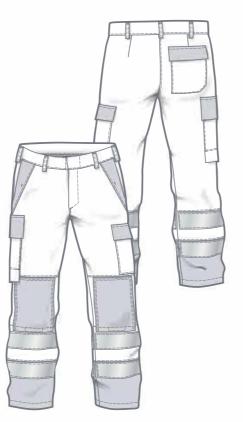
+ Knee reinforcement with opening for knee pads



+ Cargo pockets inside with phone pocket







CARE:









# **JACKET**

**ITEM 6080 D**3 **D**3 **ITEM 6180 ITEM 7080 ITEM 7180** 

**SIZES:** 44 - 66 90 - 114

- + Plastic buttons and zips
- + Stand-up collar
- + Front has zip and hidden snap fasteners
- + 2 chest pockets with flap and hidden snap fasteners
- + 2 side pockets with velcro flaps
- + 1 inner phone pocket with velcro tab
- + Adjustable cuffs with velcro tabs
- + 2 reflective stripes on torso and sleeves, 1 reflective stripe on shoulders (5 cm / 2 inch wide)

# **TROUSERS**

**ITEM 6081 D**3 **D**3 **ITEM 6181** A D3 **ITEM 7081 ITEM 7181** 

**SIZES:** 44 - 66 90 - 114

22 - 33

- + Plastic buttons and zips
- + 7 belt loops
- + Waistband with hidden button
- + 2 side pockets with hidden snap fastener
- + 1 hip pocket with flap and snap fasteners
- + 1 cargo pocket with flap and hidden snap fasteners + inner phone pocket
- + 1 internally and externally reinforced ruler pouch with flap and hidden snap fasteners
- + Knee reinforcement with opening for knee pads, with velcro
- + Zip fly
- + 2 reflective stripes on legs (7 cm / 2,75 inch wide)

# **DUNGAREES**

**ITEM 6082 ITEM 6182 ITEM 7082 ITEM 7182** 

**SIZES:** 44 - 66 90 - 114

22 - 33

- + Plastic buttons and zips
- + 1 large bib pocket with flap and snap fasteners + attached side pocket with 2 pen holders
- + 2 side fasteners with button, snap fastener and gusset
- + 2 side pockets with hidden snap fastener
- + 1 hip pocket with flap and snap fasteners
- + 1 cargo pocket with flap and hidden snap fasteners + inner phone pocket
- + 1 internally and externally reinforced ruler pouch with flap and hidden snap fasteners
- + Knee reinforcement with opening for knee pads, with velcro
- + Zip fly
- + 2 reflective stripes on legs (7 cm / 2,75 inch wide)



### MATERIAL:

52% cotton / 22% modacrylic 19% viscose / 6% para-aramid / 1% antistatic

















**TROUSERS** 

high-vis yellow

navy blue



**SIZES:** 44 - 66 90 - 114 22 - 33

- + Plastic buttons and zips
- + 7 belt loops
- + Waistband with hidden button
- + 2 side pockets with hidden snap fastener
- + 1 hip pocket with flap and snap fasteners
- + 1 cargo pocket with flap and hidden snap fasteners + inner phone pocket
- + 1 internally and externally reinforced ruler pouch with flap and hidden snap fasteners
- + Knee reinforcement with opening for knee pads, with velcro
- + Zip fly
- + 2 reflective stripes on legs (7 cm / 2,75 inch wide)

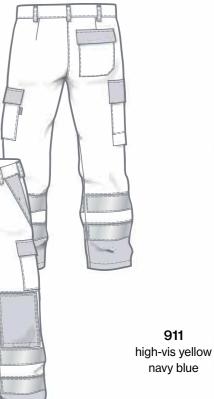
#### MATERIAL:

42% modacrylic 25% cotton 22% polyamide 10% viscose 1% antistatic

CARE:









# ▲ ITEM 4172



**SIZES:** 44 - 66 90 - 114

22 - 33

- + Plastic buttons and zips
- + 1 large bib pocket with flap and snap fasteners + attached side pocket with 2 pen holders
- + 2 side fasteners with button, snap fastener and gusset
- + 2 side pockets with hidden snap fastener
- + 1 hip pocket with flap and snap fasteners
- + 1 cargo pocket with flap and hidden snap fasteners + inner phone pocket
- + 1 internally and externally reinforced ruler pouch with flap and hidden snap fasteners
- + Knee reinforcement with opening for knee pads, with velcro
- + Zip fly
- + 2 reflective stripes on legs (7 cm / 2,75 inch wide)



LIGHT **JACKET** 

> ¥ ITEM 4170 **ITEM 5170**

**SIZES:** 44 - 66

+ Plastic buttons and zips

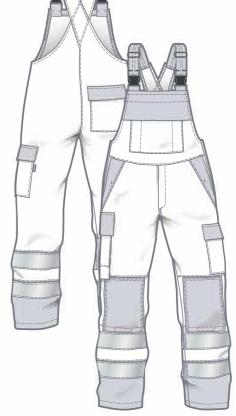
4170 LD822 5170 LD822BI 76

Vinherent flame retardant

+ Stand-up collar

90 - 114

- + Front has zip and hidden snap fasteners
- + 2 chest pockets with flap and hidden snap fasteners
- + 2 side pockets with velcro flaps
- + 1 inner phone pocket with velcro tab
- Adjustable cuffs with velcro tabs
- 2 reflective stripes on torso and sleeves, 1 reflective stripe on shoulders (5 cm / 2 inch wide)





# C

# ¥ ITEM 5220

**JACKET** 

**I** ITEM 5230

**SIZES:** 44 - 66 90 - 114

- + With Lining
- + Plastic buttons and zips
- + Stand-up collar
- Front has zip and hidden snap fasteners
- + 2 chest pockets with flap and hidden snap fasteners
- + 2 side pockets with velcro flaps
- + 1 inner phone pocket with velcro tab
- + Adjustable cuffs with velcro tabs
- + 2 reflective stripes on torso and sleeves, 1 reflective stripe on shoulders (5 cm / 2 inch wide)





▲ ITEM 5221

**ITEM 5231** 

**SIZES:** 44 - 66

With Lining

7 belt loops

snap fastener

+ 1 hip pocket with flap

and snap fasteners

+ 1 cargo pocket with flap

+ inner phone pocket

+ 1 internally and externally

reinforced ruler pouch with flap and hidden

+ Knee reinforcement with

opening for knee pads,

2 reflective stripes on legs

(7 cm / 2,75 inch wide)

snap fasteners

with velcro

+ Zip fly

90 - 114

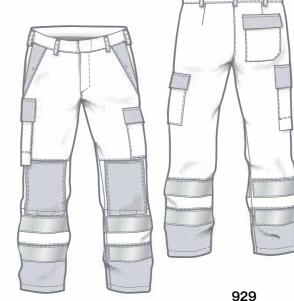
22 - 33

Plastic buttons and zips

Waistband with hidden button

2 side pockets with hidden

and hidden snap fasteners









**DUNGAREES** 

**ITEM 5232** 

**SIZES:** 44 - 66 90 - 114 22 - 33

- + With Lining
- + Plastic buttons and zips
- + 1 large bib pocket with flap and snap fasteners + attached side pocket with 2 pen holders
- + 2 side fasteners with button, snap fastener and gusset
- + 2 side pockets with hidden snap fastener
- + 1 hip pocket with flap and snap fasteners
- + 1 cargo pocket with flap and hidden snap fasteners + inner phone pocket
- + 1 internally and externally reinforced ruler pouch with flap and hidden snap fasteners
- + Knee reinforcement with opening for knee pads, with velcro
- + Zip fly
- + 2 reflective stripes on legs (7 cm / 2,75 inch wide)









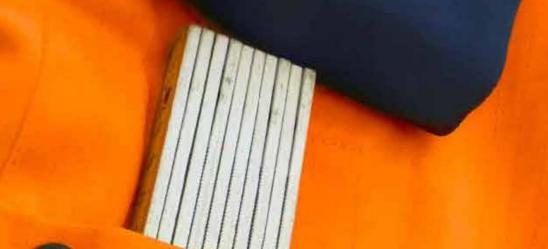












HIGH-VIS-MULTINORM **HEAVY** 













**MATERIAL:** 

320 g/m<sup>2</sup>

31% polyester / 28% modacrylic / 20% aramid 20% Viscose FR / 1% antistatic

LINING:

170 g/m<sup>2</sup>

30% modacrylic / 30% viscose / 20% cotton 19% polyamide / 1% antistatic



EN ISO 11612:2015

A1 B1 C1 E1 F1

EN ISO 11611:2015

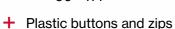
Class 2 A1

# **JACKET**



ART. 5130

**SIZES:** 44 - 66 90 - 114



- + Stand-up collar
- + Front has zip and hidden snap fasteners
- + 2 chest pockets with flap and hidden snap fasteners
- + 2 side pockets with velcro flaps
- + 1 inner phone pocket with velcro tab
- + Adjustable cuffs with velcro tabs
- + 2 reflective stripes on torso and sleeves, 1 reflective stripe on shoulders (5 cm / 2 inch wide)



APC 1

# **TROUSERS**

▲ ART. 5121

ART. 5131



**SIZES:** 44 - 66, 90 - 114, 22 - 33

- + Plastic buttons and zips
- + 7 belt loops
- Waistband with hidden button
- + 2 side pockets with hidden snap fastener
- + 1 hip pocket with flap and snap fasteners
- + 1 cargo pocket with flap and hidden snap fasteners + inner phone pocket
- + 1 internally and externally reinforced ruler pouch with flap and hidden snap fasteners



 $\langle \wedge \wedge \wedge \wedge \wedge \wedge \rangle$ 

+ Knee reinforcement with opening for knee pads, with velcro

- Zip fly
- + 2 reflective stripes on legs (7 cm / 2,75 inch wide)

### **MATERIAL:**

31% polyester / 28% modacrylic 20% aramid / 20% Viscose FR 1% antistatic











△ ART. 5122

**ART. 5132** 

**SIZES:** 44 - 66, 90 - 114, 22 - 33

- + Plastic buttons and zips
- + 1 large bib pocket with flap and snap fasteners + attached side pocket with 2 pen holders
- + 2 side fasteners with button, snap fastener and gusset
- + 2 side pockets with hidden snap fastener
- + 1 hip pocket with flap and snap fasteners
- + 1 cargo pocket with flap and hidden snap fasteners + inner phone pocket
- + 1 internally and externally reinforced ruler pouch with flap and hidden snap fasteners
- + Knee reinforcement with opening for knee pads, with velcro
- 2 reflective stripes on legs (7 cm / 2,75 inch wide)















ATPV of fabric: 18 cal/cm<sup>2</sup>

# **JACKET**

**D**3

**ITEM 4280** M D3

**ITEM 5280** 

**SIZES:** 44 - 66 90 - 114

- + Plastic buttons and zips
- + Stand-up collar
- + Front has zip and hidden snap fasteners
- + 2 chest pockets with flap and hidden snap fasteners
- + 2 side pockets with velcro flaps
- + 1 inner phone pocket with velcro tab
- + Adjustable cuffs with velcro tabs
- + 2 reflective stripes on torso and sleeves, 1 reflective stripe on shoulders (5 cm / 2 inch wide)





048 navy blue

# **TROUSERS**

🔥 D3 **ITEM 4081 ITEM 4281 ITEM 5181** 

**SIZES:** 44 - 66 90 - 114

22 - 33

- + Plastic buttons and zips
- + 7 belt loops
- + Waistband with hidden button

**ITEM 5281** 

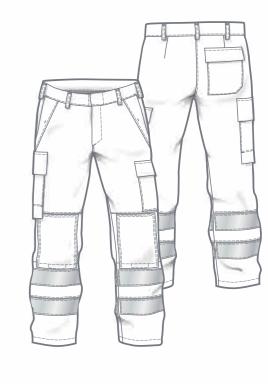
- + 2 side pockets with hidden snap fastener
- + 1 hip pocket with flap and snap fasteners
- + 1 cargo pocket with flap and hidden snap fasteners + inner phone pocket
- + 1 internally and externally reinforced ruler pouch with flap and hidden snap fasteners
- + Knee reinforcement with opening for knee pads, with velcro
- + Zip fly
- + 2 reflective stripes on legs (7 cm / 2,75 inch wide)



# MATERIAL:

52% cotton 22% modacrylic / 19% viscose 6% para-aramid / 1% antistatic





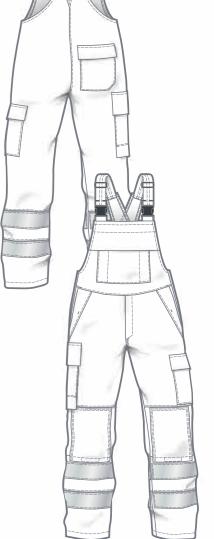
# **DUNGAREES**

**ITEM 4082 D**3 **ITEM 4282 ITEM 5182 ITEM 5282** 

**SIZES:** 44 - 66 90 - 114 22 - 33

+ Plastic buttons and zips

- + 1 large bib pocket with flap and snap fasteners + attached side pocket with 2 pen holders
- + 2 side fasteners with button, snap fastener and gusset
- + 2 side pockets with hidden snap fastener
- + 1 hip pocket with flap and snap fasteners
- + 1 cargo pocket with flap and hidden snap fasteners + inner phone pocket
- + 1 internally and externally reinforced ruler pouch with flap and hidden snap fasteners
- + Knee reinforcement with opening for knee pads, with velcro
- + Zip fly
- + 2 reflective stripes on legs (7 cm / 2,75 inch wide)



35

# **JACKET**

# ¥ ITEM 6170

**SIZES:** 44 - 66 90 - 114

**ITEM 6370** 

- + Plastic buttons and zips
- + Stand-up collar
- + Front has zip and hidden snap fasteners
- + 2 chest pockets with flap and hidden snap fasteners
- + 2 side pockets with velcro flaps
- + 1 inner phone pocket with velcro tab
- + Adjustable cuffs with velcro tabs
- + 2 reflective stripes on torso and sleeves, 1 reflective stripe on shoulders (5 cm / 2 inch wide)

# **TROUSERS**



**SIZES:** 44 - 66

90 - 114 22 - 33

- + Plastic buttons and zips
- + 7 belt loops
- + Waistband with hidden button
- + 2 side pockets with hidden snap fastener
- + 1 hip pocket with flap and snap fasteners
- + 1 cargo pocket with flap and hidden snap fasteners + inner phone pocket
- + 1 internally and externally reinforced ruler pouch with flap and hidden snap fasteners
- + Knee reinforcement with opening for knee pads, with velcro
- + Zip fly

34

+ 2 reflective stripes on legs (7 cm / 2,75 inch wide)



048

navy blue









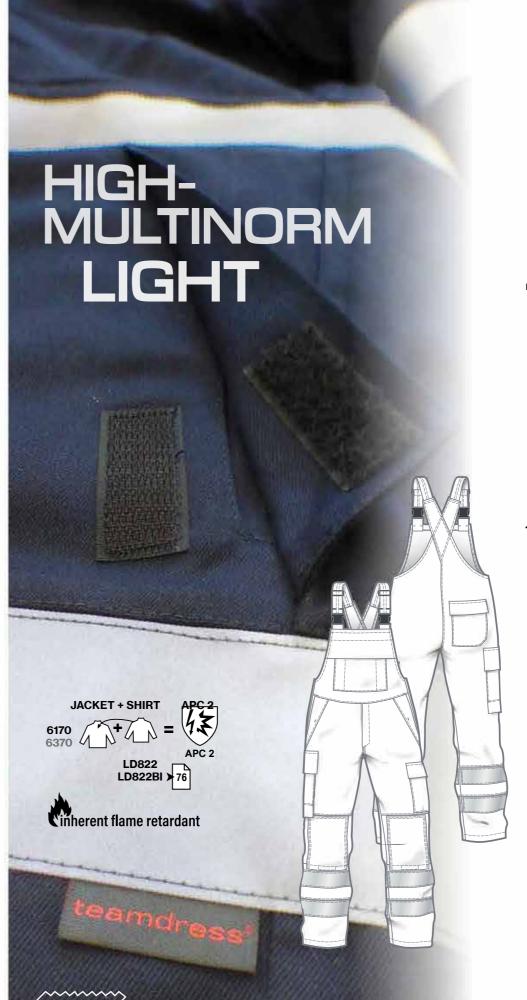
















**I** ITEM 6372

**SIZES:** 44 - 66 90 - 114

+ Plastic buttons and zips

22 - 33

- + 1 large bib pocket with flap and snap fasteners + attached side pocket with 2 pen holders
- + 2 side fasteners with button, snap fastener and gusset
- + 2 side pockets with hidden snap fastener
- + 1 hip pocket with flap and snap fasteners
- + 1 cargo pocket with flap and hidden snap fasteners + inner phone pocket
- + 1 internally and externally reinforced ruler pouch with flap and hidden snap fasteners
- + Knee reinforcement with opening for knee pads, with velcro
- + Zip fly
- + 2 reflective stripes on legs (7 cm / 2,75 inch wide)





# WEATHER HIGH-VIS-MULTINORM



- + Jacket with lining
- + 2-way-zip



+ Embroidery on flap (PPE symbols)



- + Trousers with lining
- + With elasticated adjustable band



+ Adjustable trouser legs with tab and velcro









+ Hood (4290001) can be buttoned on

+ Completely lined

+ Front with zip and hidden snap fasteners

S-L - 2XL-L

- + 2 chest pockets with flap and velcro
- + 2 side pockets with flap and velcro
- + 1 inner chest pocket with velcro
- + Adjustable cuffs with tab and velcro
- + Waist and hem with drawstring
- + Longer back
- + 2 reflective stripes on torso and sleeves, 1 reflective stripe on shoulders



#### CARE:

















# **WEATHER HIGH-VIS-MULTINORM**

315 g/m<sup>2</sup>

170 g/m<sup>2</sup>

# **MATERIAL:**

55% modacrylic / 43% cotton / 2% antistatic polyurethane membrane

#### LINING:

55% modacrylic / 43% cotton / 2% antistatic





+ A1:2016











# ITEM 4290001

### **SIZE:** 0

+ Hood can be attached to jacket (4290) with press studs

911

high-vis yellow

- + Adjustable elastic cord
- + With back tab and velcro



**ITEM 4291** 

SIZES: S-5XL

+ Completely lined

S-L - 2XL-L

S-K - 3XL-K

+ Plastic buttons and zips

Waistband fastener

+ 7 belt loops

with hidden button

+ Adjustable elasticated rubber

braces, sewn on tightly

+ Adjustable leg hems with tab and velcro

Elasticated adjustable back waistband

+ 2 side pockets with hidden snap fastener

- rear and bottom) with flap and velcro

+ 2 reflective stripes on legs (5 cm)

+ 1 hip pocket with flap and velcro + 1 cargo pocket (bellow pocket























**ITEM 6083** 

SIZES: S-5XL

+ Stand-up collar

snap fasteners

+ 2 side pockets with zip and velcro

+ Adjustable hem with elasticated band

Cinherent flame retardant

SOFTSHELL JACKET

**FLEECE JACKET** 

S-L - 2XL-L

+ Front and sleeves lined

+ Front with zip and hidden

+ Can be combined to add warmth

in Weather jacket: 4290

left with pen compartment











### **ITEM 6084**

SIZES: S-5XL S-L - 2XL-L

- + Front and sleeves lined
- + Can be combined to add warmth in Weather jacket: 4290
- + Stand-up collar
- + Front with zip and hidden snap fasteners
- + 2 inner chest pockets with velcro, left with pen compartment
- + 2 side pockets with zip and velcro
- + Adjustable hem with elasticated band
- + Torso and sleeves with 2 reflective stripes, 1 reflective stripe on shoulders (5 cm / 1 inch wide) Vinherent flame retardant



high-vis yellow/navy blue





085 dark navy blue





MATERIAL: 48% modacrylic / 32% cotton 18% polyester / 2% antistatic

LINING: 30% modacrylic type F / 30% viscose 20% cotton / 19% polyamide / 1% antistatic

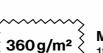












170 g/m<sup>2</sup>

¥ ITEM 4908

**ITEM 6908** 

SIZES: XS - 4XL

MATERIAL: 48% modacrylic / 32% cotton 18% polyester / 2% antistatic

SUPPORTING

FAIRTRADE |

LINING: 30% modacrylic type F / 30% viscose 20% cotton / 19% polyamide / 1% antistatic



CARE:







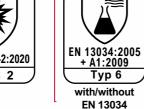














# **MATERIAL:**

38% modacrylic / 28% cotton 17% aramid / 7,5% polyester 5% polyurethane / 4% polyamide 0,5% antistatic

multilayer laminate with polyurethane membrane and fleece inside











- + 1 inner left chest pocket,
- + Adjustable sleeve cuffs with tab and velcro
- adjustable waistband



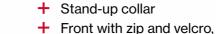
921 navy blue black



dark grey black







zip and velcro + 2 side pockets with zip

+ 1 left chest pocket, with

hem bottom with snap fastener

S-L - XL-L

- with zip + pen pocket
- + Seam with elasticated
- + Shoulder, sleeves and torso with reflective stripes













524

navy blue blue



840 grey navy blue

330 grey orange





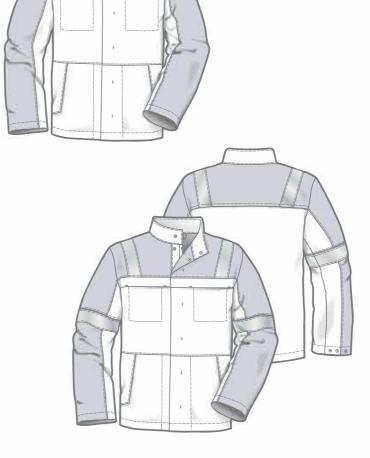


**SIZES:** 44 - 66 90 - 114

- + Stand-up collar
- + Hidden snap fastener placket
- + 2 chest pockets with integrated flap and hidden snap fastener
- + 2 side pockets with flap and velcro
- + 1 inner chest pocket left, with snap fastener
- + Adjustable cuffs with snap fasteners

# **OPTIONAL:**

- + Without ISO 11612 D3 (molten aluminium)
- + Sleeves and shoulders with 1 reflective stripe





# **MATERIAL:**

52% cotton 37% modacrylic 10% viscose 1% antistatic

CARE:







EN ISO 11612:2015 A1+A2 B1 C1[D3]E3 F1

with/without D3

EN ISO 11611:2015 Class 2 A1+A2

EN 1149-5:2018

IEC 61482-2:2018 APC 1

ATPV of fabric: 15,4 cal/cm²

FOUNDRY + WELDER HEA

# FOUNDRY+WELDER HEAVY

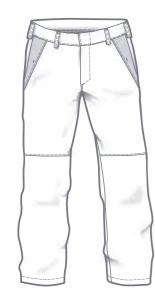




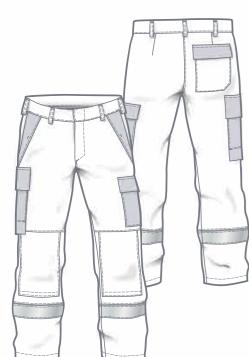




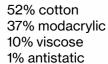
15,4 cal/cm<sup>2</sup>



ATPV of fabric:



# **MATERIAL:**



CARE:

430 g/m<sup>2</sup>





# **TROUSERS**



**\*** D3 ITEM 6101 000 D3 ITEM 6111 000

**D3** ITEM 6101 777 D3 ITEM 6111 777

**\*** D3 ITEM 6101 311 **D3** ITEM 6111 311

**\*** D3 ITEM 6101 999 **D3** ITEM 6111 999

**SIZES:** 44 - 66 90 - 114 22 -33

- + 7 belt loops
- Waistband fastener with hidden jeans button
- + Zip fly
- + 2 side pockets with hidden snap fastener
- + 1 hip pocket with flap and hidden snap fasteners
- + 1 cargo pocket with flap and hidden snap fasteners
- + 1 reinforced ruler pouch
- + With flap and hidden snap fasteners

### **OPTIONAL:**

- + Without ISO 11612 D3 (molten aluminium)
- Without cargo pocket, ruler pouch
- + Knee reinforcement with opening for knee pads, with velcro
- + Each leg with 1 reflective stripe



346 blue/navy blue



524





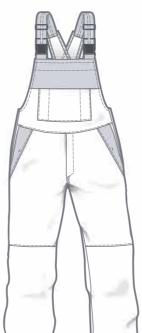






grey/orange













**SIZES:** 44 - 66 90 - 114 22 -33

- + Adjustable elastic straps with side release buckles
- + High bib back
- + 1 large bib pocket with flap and hidden snap fastener + attached pocket, with 2 pen holders
- + 2 side pockets with hidden snap fastener
- + 1 hip pocket with flap and hidden snap fasteners
- + 1 cargo pocket with flap and hidden snap fasteners
- + 1 reinforced ruler pouch with flap and hidden snap fasteners
- + Zip fly
- + 2 side fasteners with jeans button, snap fastener and gusset



346

blue/navy blue





navy blue/grey



840 grey/navy blue



330 grey/orange



- + Without ISO 11612 D3 (molten aluminium)
- + Without cargo pocket, ruler pouch
- + Knee reinforcement with opening for knee pads, with velcro
- + Each leg with 1 reflective stripe







Class 1 A1+A2





ATPV of fabric: 9,7 cal/cm<sup>2</sup>

APC 1



524 navy blue blue



346 blue navy blue

840 grey navy blue



330 grey orange





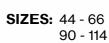
**D2** ITEM 6200



<u>₱ ₱2</u> ITEM 6220



**№** D2 ITEM 6200 371 Ø D2 ITEM 6220 371

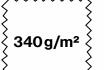


- + Stand-up collar
- + Hidden snap fastener placket
- + 2 chest pockets with integrated flap and hidden snap fastener
- + 2 side pockets with flap and velcro
- + 1 inner chest pocket left, with snap fastener
- + Adjustable cuffs with snap fasteners

# **OPTIONAL:**

- + Without ISO 11612 D2 (molten aluminium)
- + Sleeves and shoulders with 1 reflective stripe





# **MATERIAL:**

50% cotton 39% modacrylic 10% viscose 1% antistatic

# CARE:









# FOUNDRY+WELDER LIGHT









ATPV of fabric: 9,7 cal/cm<sup>2</sup>

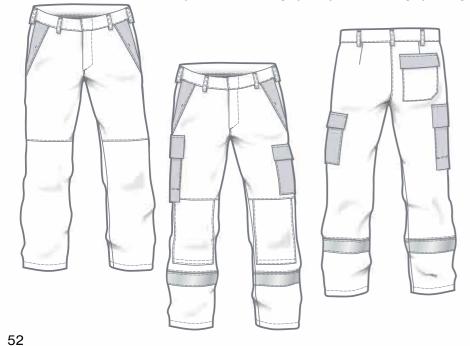


346 blue/navy blue



grey/navy blue

grey/orange



navy blue/blue

# **TROUSERS**

D2 ITEM 6201 **D2** ITEM 6221

**D2** ITEM 6201 000 **D2** ITEM 6221 000

**D2** ITEM 6201777 D2 ITEM 6221777

**D2** ITEM 6201 311 **D2** ITEM 6221 311

**D2** ITEM 6201 999 **D2** ITEM 6221 999

**SIZES:** 44 - 66 90 - 114 22 -33

- + 7 belt loops
- + Waistband fastener with hidden jeans button
- + Zip fly
- + 2 side pockets with hidden snap fastener
- + 1 hip pocket with flap and hidden snap fasteners
- + 1 cargo pocket with flap and hidden snap fasteners
- + 1 reinforced ruler pouch
- + With flap and hidden snap fasteners

### **OPTIONAL:**

- + Without ISO 11612 D2 (molten aluminium)
- + Without cargo pocket, ruler pouch
- + Knee reinforcement with opening for knee pads, with velcro
- + Each leg with 1 reflective stripe



# **MATERIAL:**

50% cotton 39% modacrylic 10% viscose 1% antistatic

# CARE:









# **DUNGAREES**



**B** D2 ITEM 6202 777 D2 ITEM 6222 777

**D2** ITEM 6202 311 **D2** ITEM 6222 311

**D2** ITEM 6202 999 D2 ITEM 6222 999

**SIZES:** 44 - 66 90 - 114 22 -33

- + Adjustable elastic straps with side release buckles
- + High bib back
- + 1 large bib pocket with flap and hidden snap fastener
  - + attached pocket, with 2 pen holders
- + 2 side pockets with hidden snap fastener
- + 1 hip pocket with flap and hidden snap fasteners
- + 1 cargo pocket with flap and hidden snap fasteners
- + 1 reinforced ruler pouch with flap and hidden snap fasteners
- + Zip fly
- + 2 side fasteners with jeans button, snap fastener and gusset

# **OPTIONAL:**

- + Without ISO 11612 D2 (molten aluminium)
- + Without cargo pocket, ruler pouch
- + Knee reinforcement with opening for knee pads, with velcro
- + Each leg with 1 reflective stripe





navy blue/blue





840

grey/navy blue



330 grey/orange





# **ITEM 5205**

**SIZES:** 44/46 - 64/66 90/94 - 114/118

- + Lapel/turn down collar
- + Hidden snap fastener placket
- + 2 side pockets accessible from the sides with hidden snap fastener

800

grey

- + 1 left chest pocket with integrated flap and hidden snap fastener
- + 1 inner right chest pocket
- + Adjustable sleeve cuffs
- + Ventilation openings at chest height and back yoke



# **MATERIAL:**

64% cotton 35% polyester 1% antistatic











and hidden snap fasteners

+ Zip fly



EN ISO 11611:2015 Class 1 A1+A2

EN ISO 11612:2015 A1+A2 B1 C1 E1

EN 1149-5:2018





grey

# **DUNGAREES**

### ITEM 5202 000

**SIZES:** 44 - 66 90 - 114 22 - 33

- + Adjustable elastic straps
- + High back
- + 1 inner bib pocket with velcro
- + 1 adjustable side fastener
- + 2 side pockets with snap fastener
- + 1 cargo pocket with flap and snap fastener
- + 1 internally and externally reinforced ruler pouch with flap and hidden snap fasteners
- + Zip fly



WELDER

350 g/m<sup>2</sup>

# **MATERIAL:**

64% cotton 35% polyester 1% antistatic



flame retardant equipped

















800 grey

# **TROUSERS**

# ITEM 5421 002

**SIZES:** 44 - 66 90 - 114

- + 7 belt loops
- + 2 side pockets with snap fastener
- + 1 internally and externally reinforced ruler pouch, divided, with flap and snap fasteners
- + Button fly
- + Adjustable leg hems with snap fasteners







**MATERIAL:** 100% cotton

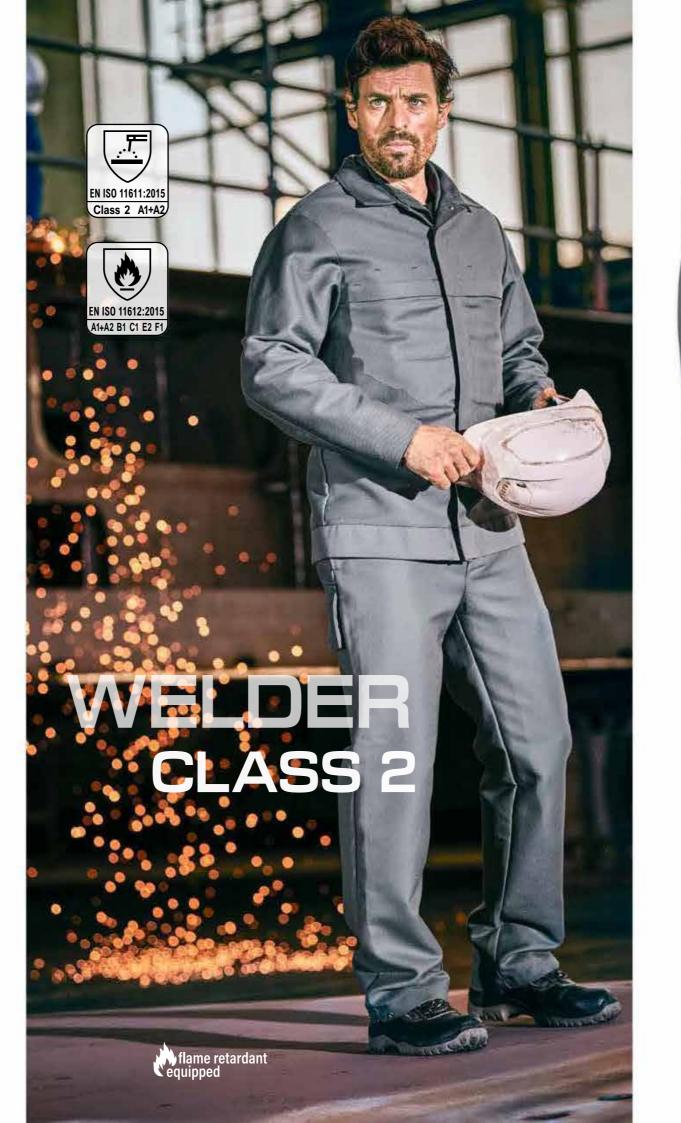
CARE:











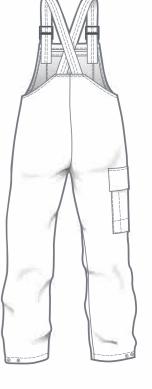


**SIZES:** 44 - 66 90 - 114

- + Adjustable elastic straps
- + 1 inner bib pocket with snap fastener
- + Adjustable side fastener with hidden jeans button
- + 2 side pockets with snap fastener
- + 1 internally and externally reinforced ruler pouch, divided, with flap and snap fasteners
- + Button fly
- + Adjustable leg hems with snap fasteners





















blue navy blue





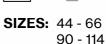












- + Stand-up collar
- + Hidden snap fastener placket
- + 2 chest pockets with integrated flap and hidden snap fastener
- + 2 side pockets with velcro
- + 1 inner chest pocket left, with snap fastener
- + Adjustable cuffs with snap fasteners

### **OPTIONAL:**

- + Without EN 13034 (chemical protection)
- + Sleeves and shoulders with 1 reflective stripe



navy blue blue



840 grey navy blue



842 grey



# **MATERIAL:**

50% lyocell (TENCEL™) 30% cotton 19% polyester 1% antistatic













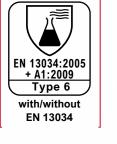
















grey

navy blue

11222

524

navy blue

blue

# **TROUSERS**







ITEM 6151 311



ITEM 7151 311



ITEM 6151 999

ITEM 7151 999

**SIZES:** 44 - 66 90 - 114 22 -33

- + 7 belt loops
- + Waistband fastener with hidden jeans button
- + Zip fly
- + 2 side pockets with hidden snap fastener
- + 1 hip pocket with flap and hidden snap fasteners
- + 1 cargo pocket with flap and hidden snap fasteners
- + 1 reinforced ruler pouch
- + With flap and hidden snap fasteners

### **OPTIONAL:**

- Without EN 13034 (chemical protection)
- + Knee reinforcement with opening for knee pads, with velcro
- + Each leg with 1 reflective stripe

# **MULTINORM 1-LAGIG**

# **DUNGAREES**







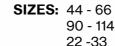






ITEM 6152 999





- + Adjustable elastic straps with cam lock buckle
- + High bib back
- + 1 large bib pocket with flap and hidden snap fasteners + attached pocket, with 2 pen holders
- + 2 side pockets with hidden snap fastener
- + 1 hip pocket with flap and hidden snap fasteners
- + 1 cargo pocket with flap and hidden snap fasteners
- + 1 reinforced ruler pouch with flap and hidden snap fasteners
- + Zip fly
- + 2 side fasteners with jeans button, snap fastener and gusset

# **OPTIONAL:**

- + Without EN 13034 (chemical protection)
- + Knee reinforcement with opening for knee pads, with velcro
- + Each leg with 1 reflective stripe



524

navy blue

blue

CARE:













**MATERIAL:** 50% lyocell (TENCEL™) 30% cotton 19% polyester 1% antistatic



840

grey



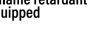
842

grey

red











346

blue



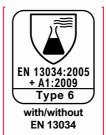














WITHOUT BIB POCKET



In their design, the models correspond with the requirements of the DIN 10524 standard regarding pockets, sleeve length of the jacket, fasteners and cut design.

Confirmation by an accredited testing institute is available on demand.



Feels so right



# MATERIAL:

50% lyocell (TENCEL™) 30% cotton 19% polyester 1% antistatic



# **MULTINORM 1-PLY**

# **JACKET**

EN ISO 11612:2015

A1 B1 C1 E3 F1

EN ISO 11611:2015

Class 1 A1

EN 1149-5:2018

IEC 61482-2:2018 APC 1

EN 13034:2005

+ A1:2009

Type 6

with/without

EN 13034

300 g/m<sup>2</sup>

**MATERIAL:** 

30% cotton

19% polyester





- + Stand-up collar
- + Hidden snap fastener placket
- + No outside pockets
- + 1 inner chest pocket with snap fastener
- + 1 inner side pocket with snap fastener
- + Adjustable cuffs with snap fasteners



(chemical protection)

**Tencel** 

Feels so right







842 grey red

+ Without EN 13034

# **TROUSERS**











**SIZES:** 44 - 66 90 - 114 22 -33

- + 7 belt loops
- Waistband fastener with hidden jeans button
- Zip fly
- + 2 side pockets with hidden snap fastener
- + 1 hip pocket with flap and hidden snap fasteners
- 1 cargo pocket with flap and hidden snap fasteners
- + 1 reinforced ruler pouch
- + With flap and hidden snap fasteners

# OPTIONAL:

- Without EN 13034 (chemical protection)
- + Knee reinforcement with opening for knee pads, with velcro





ITEM 7152 222



ITEM 6152 444

ITEM 7152 444

**SIZES:** 44 - 66 90 - 114 22 -33

- + Adjustable elastic straps with cam lock buckle
- + High bib back
- + No bib pocket
- + 2 side fasteners
- + 1 hip pocket with flap and snap fasteners
- + 2 side pockets with snap fastener
- + 1 left cargo pocket with flap and snap fasteners
- + 1 internally and externally reinforced right ruler pouch with flap and snap fasteners
- + Zip fly

# **OPTIONAL:**

- + Without EN 13034
- + Knee reinforcement with opening for knee pads, with velcro



**DESIGN ACCORDING TO HACCP DIN 10524** 

346 blue navy blue



grey red

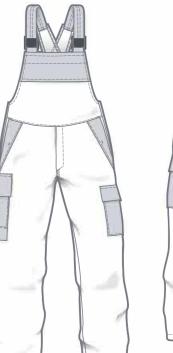
- (chemical protection)

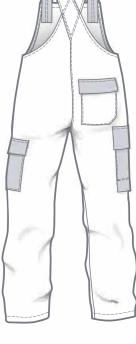


346 blue navy blue



842 grey





# 1% antistatic

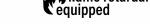
CARE:



50% lyocell (TENCEL™)







# **JACKET**





ITEM 7250 371

**SIZES:** 44 - 66 90 - 114

- + Stand-up collar
- + Hidden snap fastener placket
- + 2 chest pockets with integrated flap and hidden snap fastener
- + 2 side pockets with velcro
- + 1 inner chest pocket left, with snap fastener
- + Adjustable cuffs with snap fasteners
- + Sleeves and shoulders with 1 reflective stripe

# **OPTIONAL:**

+ Without EN 13034 (chemical protection)

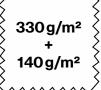








842 grey red



# **MATERIAL:**

50% lyocell (TENCEL™)/ 30% cotton 19% polyester / 1% antistatic

74% viscose FR / 15% para-aramide 10% polyamide / 1% antistatic

CARE:











# 343

# **TROUSERS**





ITEM 6251 311 ITEM 7251 311



ITEM 6251 999 ITEM 7251 999

**SIZES:** 44 - 66 90 - 114

- + 7 belt loops
- + Waistband fastener with hidden jeans button

22 -33

- + Zip fly
- + 2 side pockets with hidden snap fastener
- + 1 hip pocket with flap and hidden snap fasteners
- + 1 cargo pocket with flap and hidden snap fasteners
- + 1 reinforced ruler pouch
- + With flap and hidden snap fasteners

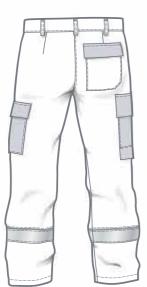
# **OPTIONAL:**

- + Without EN 13034 (chemical protection)
- + Knee reinforcement with opening for knee pads, with velcro

346

blue

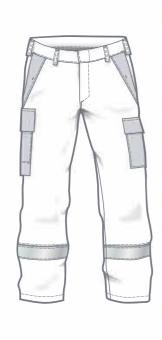
navy blue

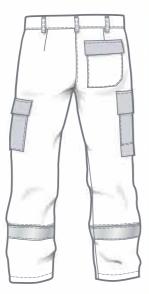




grey

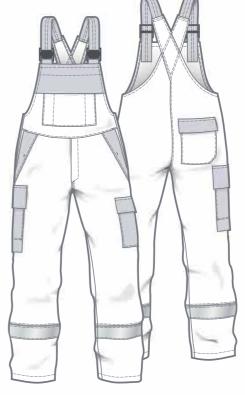
red







# **MULTINORM 2-PLY**





346 blue navy blue 842 grey red

CARE:









# **DUNGAREES**







ITEM 7252 999

**SIZES:** 44 - 66 90 - 114 22 -33

- + Adjustable elastic straps with cam lock buckle
- + High bib back
- + 1 large bib pocket with flap and hidden snap fasteners + attached pocket, with 2 pen holders
- + 2 side pockets with hidden snap fastener
- + 1 hip pocket with flap and hidden snap fasteners
- + 1 cargo pocket with flap and hidden snap fasteners
- + 1 reinforced ruler pouch with flap and hidden snap fasteners
- + Zip fly
- + 2 side fasteners with jeans button, snap fastener and gusset

# **OPTIONAL:**

- + Without EN 13034 (chemical protection)
- + Knee reinforcement with opening for knee pads, with velcro





# **MATERIAL:**

50% lyocell (TENCEL™) 30% cotton / 19% polyester 1% antistatic

# LINING:

74% viscose FR / 15% para-aramide 10% polyamide / 1% antistatic





+ Polo collar with button placket

+ Long sleeved with cuffs + Standard logos on sleeve



EN ISO 20471:2013 + A1:2016

EN ISO 11612:2015

EN 61482-2:2020 APC 1

ATPV of fabric: 5,4 cal/cm<sup>2</sup>



220 g/m<sup>2</sup> > PIQUÉ, XISPAL®

# **MATERIAL:**

50% cotton / 39% modacrylic 10% viscose / 1% antistatic

**CARE:** 









5120 6170 5130



high-vis yellow

navy blue















ATPV of fabric: 6,3 cal/cm<sup>2</sup>



929 high-vis orange navy blue

# **MULTINORM POLO SHIRT**

# ITEM LD625

SIZES: S - 4XL

- + Polo collar with hidden button placket
- + Long sleeved with cuffs
- + Standard logos on sleeve

250 g/m² > PIQUÉ, XISPAL® 

# **MATERIAL:**

40% polyester / 40% modacrylic 19% meta-aramide / 1% antistatic

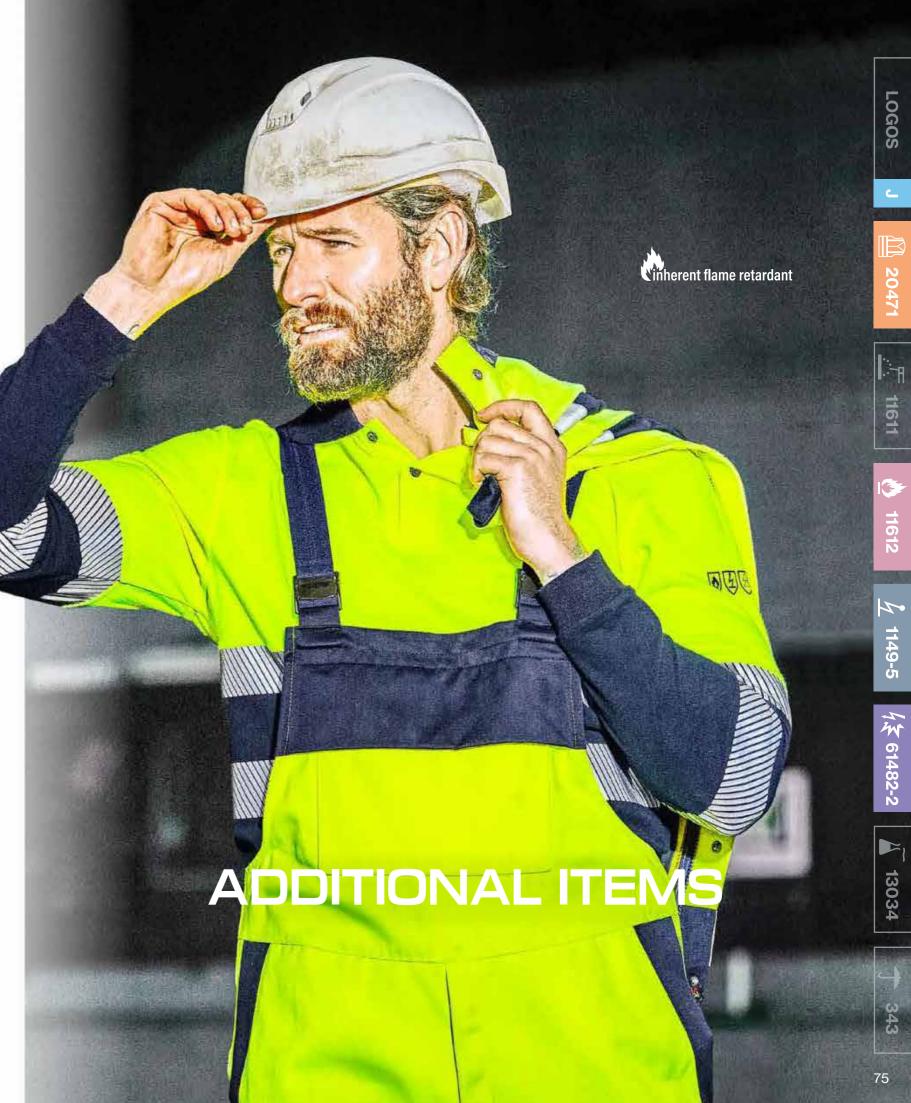
CARE:























039 navy blue

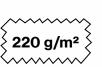
# **MULTINORM POLO SHIRT**

**ITEM LD822** 

SIZES: S-5XL



- + Polo collar with 2 buttons
- + Long sleeved with cuffs
- + Standard logos on sleeve



# **MATERIAL:**

50% cotton 39% modacrylic 10% viscose 1% antistatic

**CARE:** 







PIQUÉ, XISPAL®

**Yinherent flame retardant** 









Jacket + Polo shirt











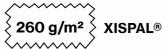


# MULTINORM SWEATSHIRT

ITEM LD826S

SIZES: S-4XL

- + Crew neck
- + Long sleeved with cuffs
- + Standard logos on sleeve



# **MATERIAL:**

50% cotton / 39% modacrylic 10% viscose / 1% antistatic

CARE:







# EN ISO 11612:2015 A1 B1 C1 F1





ATPV of fabric: 4,1 cal/cm<sup>2</sup>



# **MULTINORM SWEATSHIRT**

**ITEM LD816S** 

SIZES: S-4XL

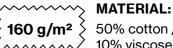
- + Crew neck
- + Long sleeved
- + Standard logos on sleeve

# **MULTINORM LONG JOHNS**

**ITEM LD816P** 

SIZES: S-4XL

- + Elasticated waistband
- + Leg cuffs



50% cotton / 39% modacrylic 10% viscose / 1% antistatic

**XISPAL®** 

CARE:





160 g/m<sup>2</sup> > XISPAL®





000 black 58% polyester 23% modacrylic 19% cotton

MATERIAL:

# **BELT OUTDOOR FR**

**ITEM HE1100** 

SIZES: (Length in cm) 120, 130, 140, 150, 160

- + Flame retardant
- + Band 38 mm, permanently elastic and lightweight
- + Buckle made of polyamide 6.6
- + Length infinitely adjustable







000 black

# **MULTINORM BALACLAVA**

ITEM LD816B - 10 pieces SIZE: 0



10% viscose 1% antistatic

















170 g/m<sup>2</sup> · · ·

MATERIAL: 30% modacrylic 30% viscose 20% cotton

19% polyamide



**SHIRT** 

**ITEM 6107** 

**SIZES:** 46 - 64

+ Shirt collar

placket

+ gusset

170 g/m<sup>2</sup>

**MATERIAL:** 

Hidden snap fastener

+ 1 chest pocket with flap

and hidden snap fastener

+ Cuff with inside and outside

hidden snap fastener

**MEN'S** 





ATPV of fabric: 6 cal/cm<sup>2</sup>

# **SHIRTS**













**分** 61482-2

# 13034





# **MULTINORM SHIRT**

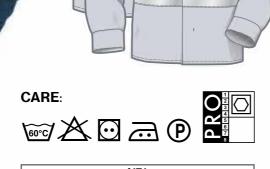


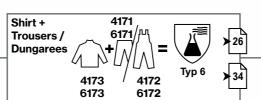
# **MEN'S SIZES:** 44 - 68

- + Shirt collar
- + Hidden snap fastener placket, Overlap: 5 cm
- + Long sleeved
- + Cuff with inside and outside hidden snap fastener + gusset
- + 2 chest pockets with flap and with snap fastener hidden to the outside
- + Torso and sleeves with 2 reflective stripes (5 cm / 1 inch wide)



911 high-vis yellow navy blue





30% modacrylic / 30% viscose 20% cotton / 19% polyamide 1% antistatic













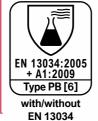
EN ISO 11612:2015

A1+A2 B1 C1 F1



Tinherent flame retardant







# **MATERIAL:**

30% modacrylic / 30% viscose 20% cotton / 19% polyamide 1% antistatic

# **MULTINORM SHIRT** ¥ ITEM 6173 **ITEM 6373**

# **MEN'S SIZES:** 44 - 68

- + Shirt collar
- + Hidden snap fastener placket, Overlap: 5 cm
- + Long sleeved
- + Cuff with inside and outside hidden snap fastener + gusset
- + 2 chest pockets with flap and with snap fastener hidden to the outside
- + Torso and sleeves with 2 reflective stripes (5 cm / 1 inch wide)















611 navy blue

# **SHIRT**

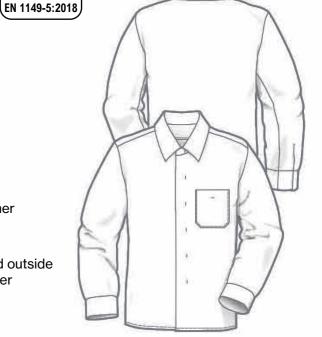
# **ITEM 4227**

# **COLLAR-**SIZES: 35/36 - 55/56

EN ISO 11612:2015

A1+A2 B1 C1

- + Shirt collar
- + Hidden snap fastener placket
- + 1 chest pocket
- + Cuff with inside and outside hidden snap fastener + gusset



# **NOMEX**<sup>®</sup>



159

blue

# **MATERIAL:**

98% aramide / 2% carbon fibre Nomex® Comfort





# HIGH VISIBILITY CLOTHING

For other standards please see page 106

# **DIN EN ISO 20471**



This standard determines the requirements for high visibility clothing. Employees must be visible when working outside (for example in moving traffic) in all lighting conditions that may occur.

During daylight conditions this is ensured by the fluorescent background material and by the reflection of vehicle's headlights off the reflective material when it is dark.

## **BACKGROUND MATERIAL**

ISO 20471 identifies three colours of background material: Fluorescent yellow, orange-red and red

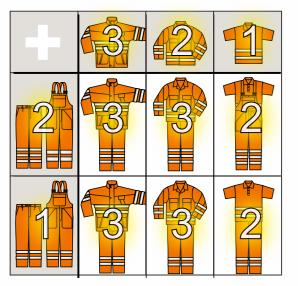
# **PROTECTIVE CLASSES**

The clothing is divided into three different protective classes. Clothing in class 3 offers the highest level of protection.

The three classes have the following minimum areas for background material and reflective material:

Class 3	Class 2	Class 1					
0,8 m <sup>2</sup>	0,5 m²	0,14 m²					
0,2 m <sup>2</sup>	0,13 m <sup>2</sup>	0,1 m <sup>2</sup>					

A certain protective class may be attained by a combination of individual pieces of clothing, provided the protective class does not require this to be met by one piece of clothing.



Example illustration

## **MATERIAL REQUIREMENTS**

The requirements of the materials used regarding colour fastness to rubbing, perspiration fastness, fastness to washing, cleaning resistance and ironing fastness are also defined in the standard. All non-fluorescent materials must fulfil the colour fastness requirements:

# ARRANGEMENT OF REFLEXIVE STRIPES (EXAMPLES):

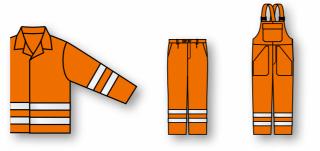


**TORSO:** 2 waist reflective stripes + 2 shoulder reflective stripes\*
Or: 1 waist reflective stripe + 2 shoulder reflective stripes\*
Or: 2 waist reflective stripes

\* no gaps are permitted at the front and the back between the shoulder reflective stripes and the next waist reflective stripe

# LONG SLEEVES AND TROUSERS LEGS:

At least 2 horizontal reflective stripes



# **REFLECTIVE STRIPES - DISTANCES AND ANGLES**

- Minimum distance between reflective stripes: 5 cm
- Minimum distance from the hem: 5 cm
- Maximum angle of horizontal wraparound stripes: 20°

# max. 20° ≥ 5cm

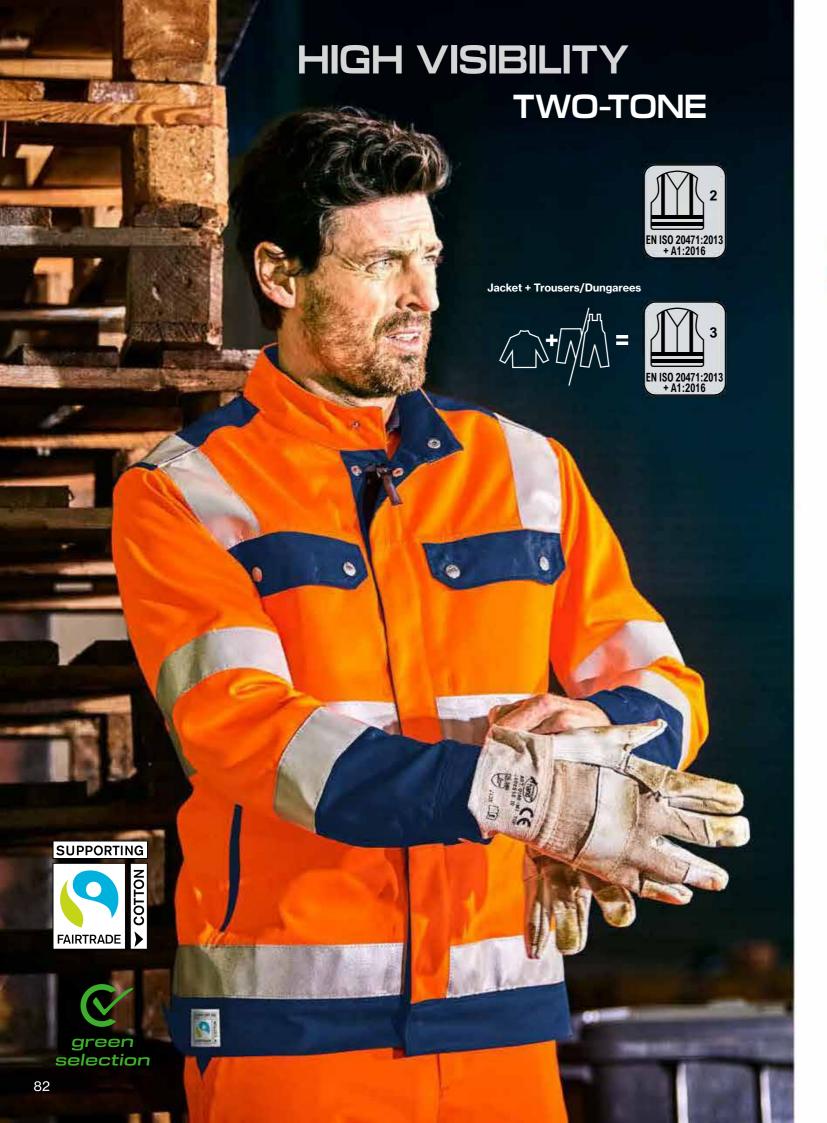
# INFORMATION FOR EMPLOYEES

Jackets must be done up, the reflective parts of the trouserss must not be obscured by boots.

# SOILING, AGEING

In accordance with the Road Traffic Regulations if the warning effectiveness of the high visibility clothing is lost due to soiling, ageing or a decrease in brightness it may no longer be used. This must be checked after every wash before being used again.

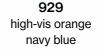














high-vis orange green







911 high-vis yellow navy blue



high-vis yellow green



270 g/m<sup>2</sup>

**MATERIAL:** 

65% polyester / 35% cotton 245 g/m<sup>2</sup>

CARE:





# 50% polyester / 50% cotton TRIM:

# **JACKET**

# **ITEM 8704N**



**SIZES:** 44/46 - 64/66 90/94 - 106/110

- + Stand-up collar
- + Front has zip and snap fasteners
- + 2 chest pockets with flap and snap fasteners
- + 2 side pockets
- + 1 inner phone pocket with velcro tab
- + Adjustable cuffs
- + Back stretch insert to assist with freedom of movement and ventilation
- + 2 reflective stripes on torso and sleeves, reflective stripe on shoulders (5 cm / 1 inch wide)
- + Back waistband with tabs and snap fasteners





430 high-vis orange grey



929 high-vis orange navy blue



460 high-vis yellow grey



912 high-vis yellow green

SUPPORTING

FAIRTRADE



430 high-vis orange grey



high-vis orange green

929

high-vis orange

navy blue



high-vis yellow high-vis yellow navy blue grey



912 high-vis yellow green

# **TROUSERS**

# ITEM 8705N 777



**SIZES:** 42 - 66 94 - 114 23 - 32

- + 6 belt loops
- Elasticated back waistband
- + Waistband with jeans button
- + 2 side pockets
- + 2 hip pockets, right with flap and hidden snap fasteners
- + 1 ruler pocket + attached pocket, divided
- + 1 cargo pocket (bellow pocket) with flap and snap fasteners + phone pocket (bellow pocket) with velcro tab
- + Zip fly
- + Knee reinforcement made from high strength polyester with opening for knee pads, with velcro
- + 2 reflective stripes on legs (7 cm / 2,75 inch wide)



427

high-vis orange

green

high-vis yellow navy blue



# **MATERIAL:**

50% polyester / 50% cotton

# TRIM:

65% polyester / 35% cotton 245 g/m<sup>2</sup>

# **CARE:**







# **DUNGAREES**

# ITEM 8706N 777



**SIZES:** 42 - 66

94 - 114 23 - 32

- + High bib back
- + Lateral stretch inserts
- + Adjustable elastic straps with front release buckles
- + Zip fly
- + 1 bib pocket with flap and snap fasteners + attached pocket with pen holder
- + 1 inner bib pocket with zip
- + 2 side pockets
- + 2 hip pockets, right with flap and hidden snap fasteners
- + 1 ruler pocket + attached pocket
- + 1 cargo pocket (bellow pocket) with flap and snap fasteners + phone pocket (bellow pocket) with velcro tab
- + Knee reinforcement made from high strength polyester with opening for knee pads, with velcro
- + 2 reflective stripes on legs (7 cm / 2,75 inch wide)

# **HIGH VISIBILITY**





navy blue





035 high-vis yellow

high-vis orange

high-vis yellow navy blue



# **VEST**

# unicoloured

# **ITEM 8779**

SIZES: XS - 4XL

- + Stand-up collar
- + Zip
- + 1 left chest pocket with flap and snap fasteners
- + 1 right chest pocket (bellow pocket) with velcro tab + pen compartment
- + 1 inner chest pocket with snap fastener
- + 2 side pockets
- + 2 reflective stripes on torso, reflective stripes on shoulders (5 cm / 2 inch wide)

# **POLOSHIRT**

460

high-vis yellow

grey

# **ITEM 8777**

SIZES: XS - 3XL

- + UV protection 50+
- + Polo collar with snap fasteners
- + Short sleeved
- Side slits

# 185 g/m<sup>2</sup>

# **MATERIAL:**

EN ISO 20471:2013 + A1:2016

430

high-vis orange

grey

55% cotton 45% polyester, piqué



# **VEST**

two-tone

# **ITEM 8780**

SIZES: XS - 4XL

- + Stand-up collar
- + Zip
- + 1 left chest pocket with flap and snap fasteners
- + 1 right chest pocket (bellow pocket) with velcro tab + pen compartment
- + 1 inner chest pocket with snap fastener
- + 2 side pockets
- + 2 reflective stripes on torso, reflective stripes on shoulders (5 cm / 2 inch wide)



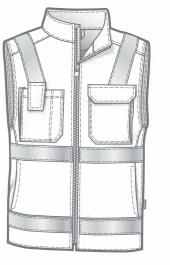
# **MATERIAL:**

70% polyester 30% cotton

**QUILTED LINING:** 100% polyester









911 high-vis yellow navy blue



# ITEM 8773

SIZES: XS - 4XL

- + Stand-up collar
- + Front zip
- + 1 chest pocket with zip
- + 2 side pockets with zip
- + Elasticated back of cuffs
- 2 reflective stripes on torso and sleeves, 1 reflective stripe on shoulders



**035** high-vis yellow



**072** high-vis orange

# **SOFTSHELL JACKET**

unicoloured

929 high-vis orange navy blue

**ITEM 8772** 

SIZES: XS - 4XL

- + Stand-up collar
- + Front zip
- + 1 chest pocket with zip
- + 2 side pockets with zip
- + Elasticated back of cuffs
- 2 reflective stripes on torso and sleeves, 1 reflective stripe on shoulders





MATERIAL:

100% polyester

**CARE:** 













035 high-vis yellow

072 high-vis orange



EN ISO 20471:2013 + A1:2016

EN 14058:2017



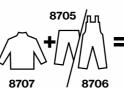
# **ITEM 8707**

**SIZES:** XS (40/42) - 4XL (68/70) S-L (90/94) - XL-L (114/118)

- + can be combined with weather jacket 8709 to add warmth
- + Stand-up collar
- + Front zip
- + 2 side pockets
- + 1 side inner pocket with zip
- + Longer back



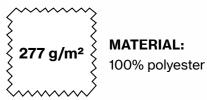
Fleece jacket + Trousers/Dungarees



















HIGH VISIBILITY

FLEECE JACKET

# HIGH VISIBILITY WEATHER JACKET



- + Zipper
- + Rain gutter



- + Possibility to add a patch
- + Flap for attaching a fleece jacket as lining



# **WEATHER JACKET**

# **ITEM 8709**

**SIZES:** XS (40/42) - 4XL (68/70) S-L (90/94) - XL-L (114/118)

- + 2 layer laminate
- + Lined, can be combined with the fleece jacket to add warmth
- + Stand-up collar with fold away hood, adjustable elastic cord in hood
- + Front placket with zip and snap fasteners + rain gutter
- + 2 chest pockets (bellow pockets) with flap and velcro
- + 2 side pockets with velcro flap
- + 1 inner chest pocket with zip
- + Adjustable sleeve cuffs with velcro tabs
- + Elasticated seam
- + 2 reflective stripes on torso and sleeves, 1 reflective stripe on shoulders



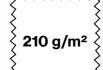








high-vis orange



# **MATERIAL:**

100% polyester, 2 layer laminate

> 2,000 mm water column, breathable Ret 4.2 m<sup>2</sup>Pa/W

# CARE:









# **FLEECE JACKET**

high-vis yellow

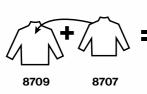
# **ITEM 8707**

+ Can be combined with weather jacket to add warmth

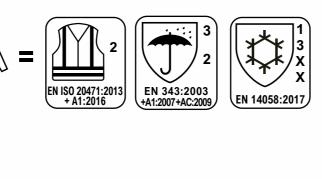


035 high-vis yellow

high-vis orange

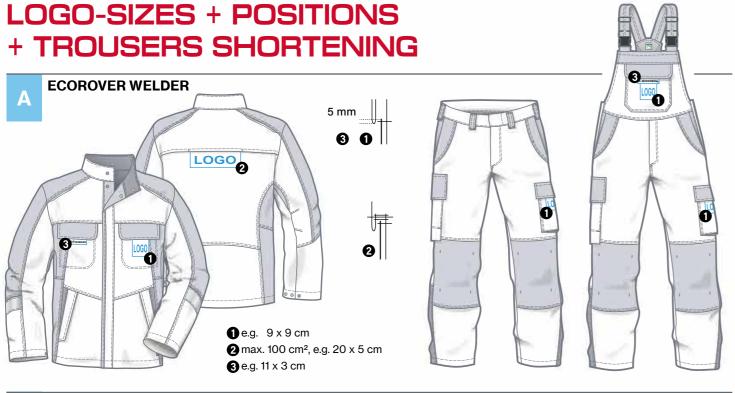


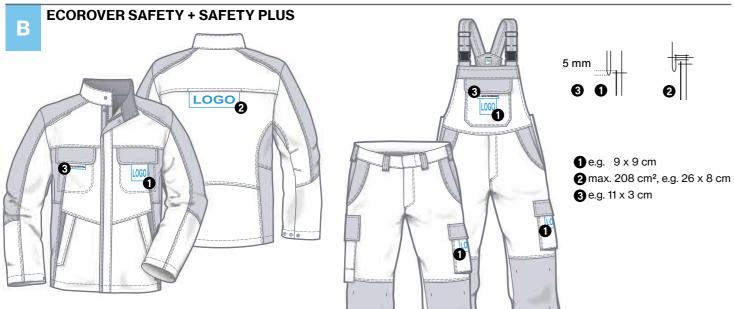


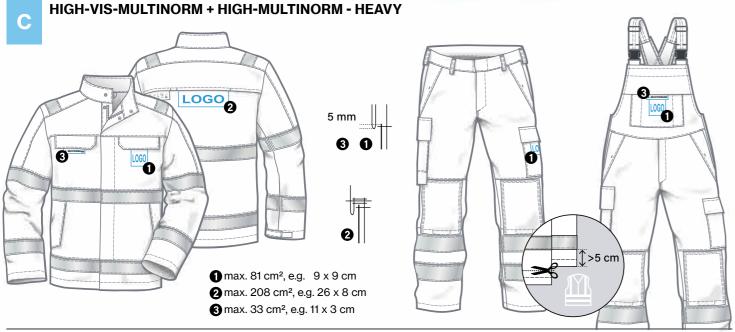


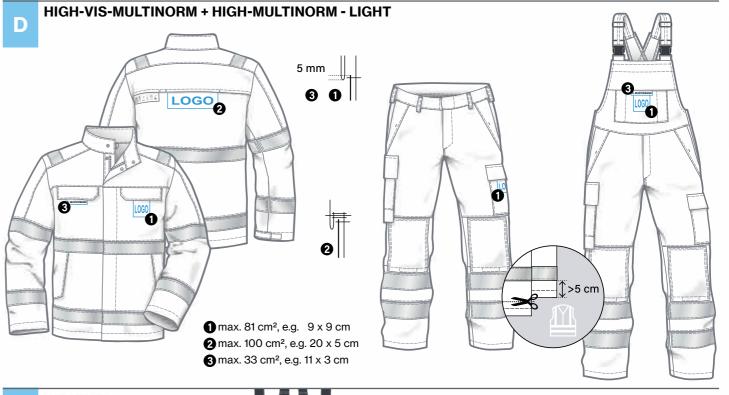


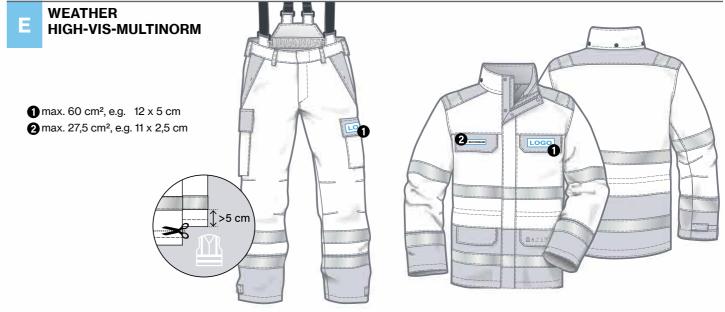


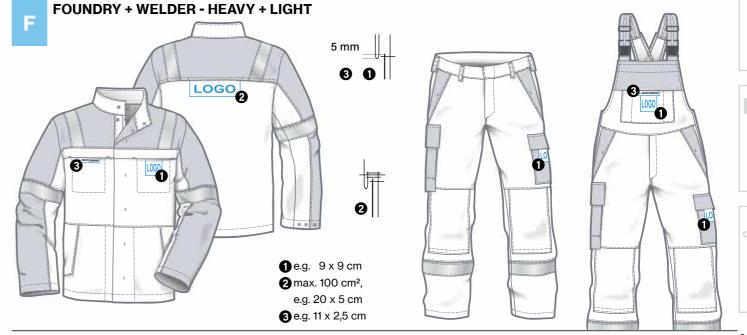














20471

11611

11612

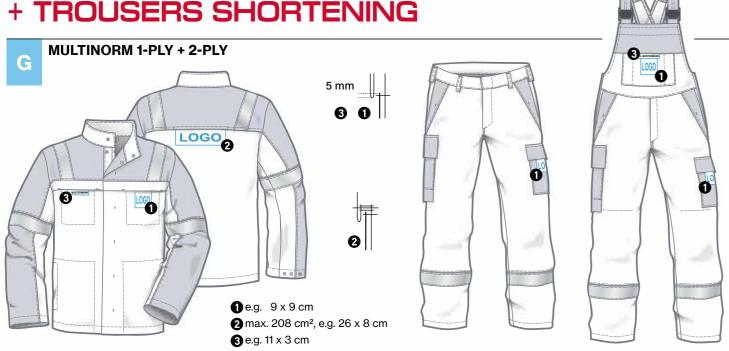
1149-5

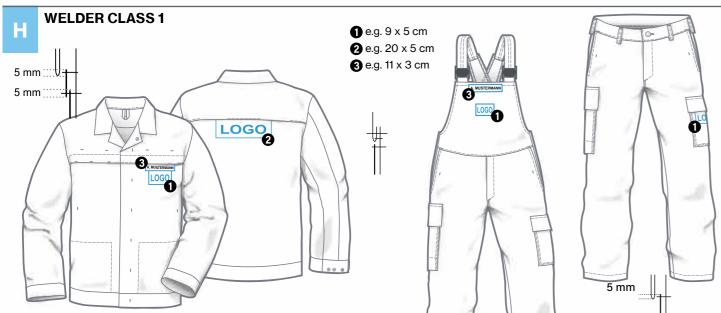
分 61482-2

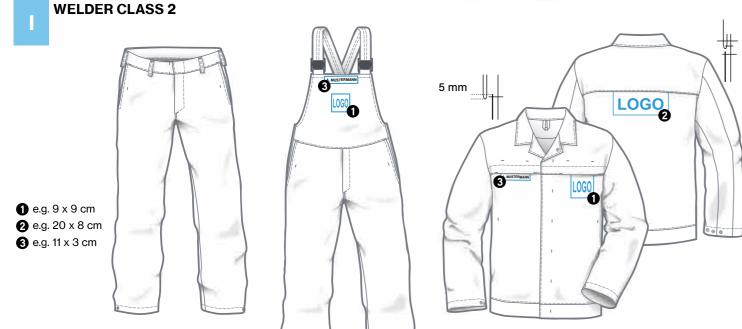
13034











Item LD822BI

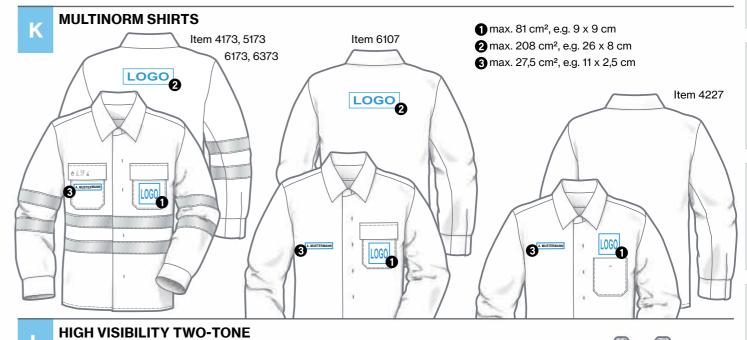
LOGO

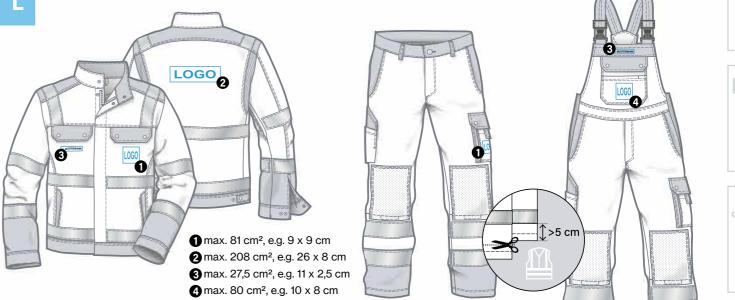
certified are the transfer logos
Wiehler FR (Wiehler company)

max. 20 cm², e.g. 5 x 4 cm

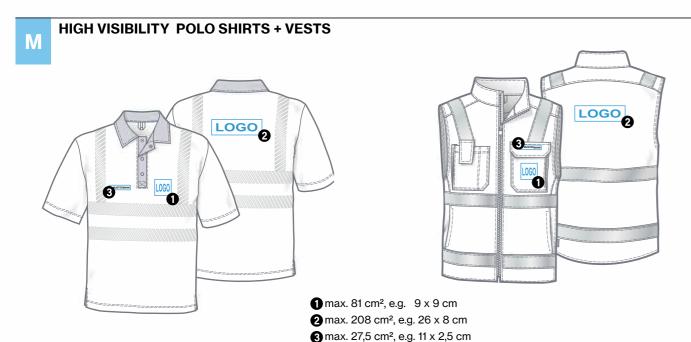
max. 300 cm², e.g. 20 x 15 cm

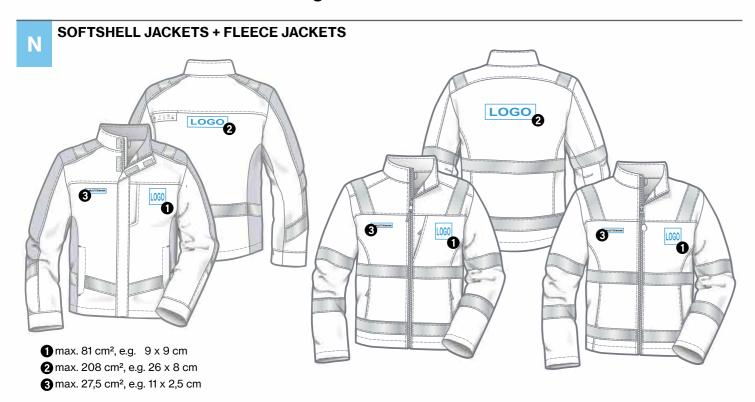
**MULTINORM POLO SHIRTS** 





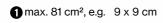
# **LOGO-SIZES + POSITIONS**





# HIGH VISIBILITY WEATHER JACKETS





**2** max. 208 cm², e.g. 26 x 8 cm **3** max. 27,5 cm², e.g. 11 x 2,5 cm



# MULTINORM FLEECE JACKETS

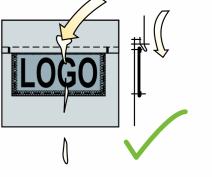


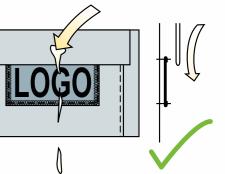
# Molten metals and chemicals:









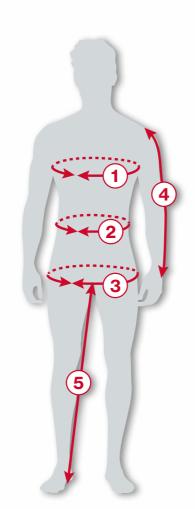


The emblem must be attached tucked under the back panel/the pocket flap.

Splashes of metal and chemicals are able to freely run off.







# MEASURES IN CM

		Sizes															
MEN	XS S		S	M		L		XL		2XL		3XL		4XL			
		40	42	44	46	48	50	52	54	56	58	60	62	64	66	68	70
1	Chest	80	84	88	92	96	100	104	108	112	116	120	124	128	132	136	140
2	Waist	68	72	76	80	84	88	92	96	100	106	112	118	124	130	136	142
3	Hip	88	92	96	100	104	108	112	116	120	124	128	132	136	140	144	148
4	Sleeve length	59	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75
5	Inside leg	72	74	76	77	78	79	80	81	82	83	84	84	84	84	84	84
	LONG SIZES	XS-L		S-L		M-L		L-L		XL-L							
		82	86	90	94	98	102	106	110	114	118					<b>#</b>	
4	Sleeve length	63	65	66	67	68	69	70	71	72	73					e san	_ <u>_</u>
5	Inside leg	76	78	80	81	82	83	84	85	86	87					the same as normal sizes	Measurements
	XS	6-K	K S-K		M-K		L-K		XL-K		2XL-K		3XL-K		norm		
	SHORT SIZES	20	21	22	23	24	25	26	27	28	29	30	31	32	33	nal C	nts
4	Sleeve length	57	59	60	61	62	63	64	65	66	67	68	69	70	71	izes	
5	Inside leg	67	69	71	72	73	74	75	76	77	78	79	79	79	79		

Size conversion table																
MEN	XS		S		M		L		XL		2XL		3XL		4XL	
	40	42	44	46	48	50	52	54	56	58	60	62	64	66	68	70
LADIES	34	36	38	40	42	44	46	48		50	52		54		56	58



# **DIN EN ISO 11611**



# Protective clothing for use in welding and allied processes

The protective clothing is intended to protect the wearer against spatter (small splashes of molten metal), short contact time with flame and radiant heat from an electric arc. It minimizes the possibility of electrical shock by short-term, accidental contact with live electrical conductors at voltages up to approximately 100 V d. c. in normal conditions of welding.

This standard defines two classes with performance requirements. Class 1 is the lower class and Class 2 the higher class.

## · Class 1

Offers protection against less hazardous welding techniques and workplace situations with less weld spatter and lower radiant heat.

### · Class 2

Offers protection against more hazardous welding techniques and workplace situations with more weld spatter and greater radiant

### Performance requirements - clothing

- · No electrically conductive connection possible between the inside and the outside of the clothing, such as metal fastenings.
- · Protective jackets must be of sufficient length to overhang the top of the trouserss by at least 20 cm in every posture and with every movement of the body.
- Fastenings may not allow any folds or pockets to form where splashes of metal could collect.
- External pockets must be able to be closed with a flap which must be a minimum of 20 mm wider that the pocket opening.
- Side pockets below the waist (without flaps) may only protrude a maximum of 10° from the side seam
- Sleeve cuff fastenings and adjustments as well as the resulting folds must only be situated on the underside of the sleeve cuff.
- · Trouserss may not have any external folds or turn-ups.

All materials such as seams and applications (such as emblems) must fulfil the limited flame spread requirements pursuant to ISO 15025 Procedure A or Procedure B. Further requirements are resistance to splashes of molten metal, to thermal radiation as well as UV radiation in accordance with the respective protective class.

Protection is lost if the clothing is contaminated with highly flammable substances. An increased amount of oxygen in the air reduces the protection against catching fire.

The isolating effect of the clothing against electrical current as is reduced soon as it becomes affected by liquid, moisture or sweat.

# Example areas of use

Machinery industry, shipyards, paper manufacturing, automotive industry, repair shops, workshops and utility companies.

# **DIN EN ISO 11612**



Protective clothing -**Clothing to protect** against heat and flame

This standard specifies performance requirements for garments made from flexible materials, which are designed to protect the wearer's body from heat and/or flame. These garments have a wide range of application. The majority of hazards listed in this standard are classified into one of three performance levels depending on the type of hazard.

- Level 1 exposure to a low risk
- Level 2 exposure to a medium risk
- · Level 3 exposure to a high risk

## Performance requirements:

The clothing must meet the requirements of limited flame spread and at least one other requirement.

# I imited flame spread

# (Code letter A1 and/or A2)

The material must not suffer flaming to the top or either side edge. It must not suffer hole formation or produce flaming or molten debris. The maximum afterflame and afterglow time is 2 seconds.

# Convective heat

# (Code letter B1 - B3)

The time it takes for the reverse side of the material to reach a temperature of 24°C is assessed (corresponding to second de-

# Radiant heat

# (Code letter C1 - C4)

The material is subjected to a heat flux density of 20 kW/m<sup>2</sup> and the time it takes for a second degree burn is assessed. Performance level C1: 7 - 20s to C4: > 95s

# Splatters of molten aluminium

# (Code letter D1 - D3)

# Splatters of molten iron

# (Code letter E1 - E3)

Depending on the respective class (e.g. D1: 100 - 200g or E1: 60 - 120g) the fabric is subjected to a certain amount of hot molten aluminium or iron. The underlying PVC film, which simulates skin, may not take any damage.

# Contact heat (code letter F1 - F3)

The material is subjected to contact heat of at least 250 Co. At least performance level 1 must be achieved (e.g. F1: 5 - 10s).

Protective jackets must be of sufficient length to overhang the top of the trouserss by at least 20 cm in every posture and with every movement of the body.

Garments that are designed to protect against the risk of exposure to molten metal splash by meeting the performance requirements designated by code letters D and E must have the following additional design features:

- · Sleeves and trousers legs may not have
- · External pockets must be able to be closed with a flap which must be a minimum of 20 mm wider that the pocket
- · Side pockets below the waist (without flaps) may only protrude a maximum of 10° from the side seam.
- · Patch pockets must be made from materials meeting the same protection indices (A to F) and the same levels for these indices as the rest of the garment.
- · Overlapping seams on the outside of the garment must be downward facing and secured in this position
- · Sleeve cuff fastenings and adjustments as well as the resulting folds must only be situated on the underside of the sleeve cuff.
- · Neck/collar openings shall be provided with closures.
- · Side slits must be covered.

Protective clothing must be inspected regularly for blemishes and damage as this could impair the flame retardant effect or even neutralise its effect. Damaged protective clothing must be removed.

Affixing applications (such as badges) is only possible to a limited extent. All materials, in particular thread and fasteners, must meet the requirements of the same protection indices (A to F) and the same levels for these indices as the rest of the garment. This also applies, in particular, to embroidery thread. The upper seams of the applications must be covered or be located directly underneath the overlapping seams.

# Example areas of use

Ironworks and smelting works, foundries, smithies, hammer mills, die-cutting units, the pyrotechnic industry and utility compa-

# **DIN EN 1149-T1-5**



# **Electrostatic** properties

This standard contains test methods and requirements for electrostatic conductive material to avoid flammable discharges.

## Part 1 - Surface resistivity

Test method for fabrics with metal fibres or threads. The surface resistance in  $\Omega$  is determined. Minimum requirements: see part 5.

### Part 2 - Vertical resistance

Test method for measurement of the electrical resistance through a material.

# Part 3 - Charge decay

This test method is applicable to all materials, including fabrics, which cannot be tested after the first procedure (e.g. fabrics with carbon fibres) The half life of the charge decay t<sub>50</sub> in seconds and the shielding factor S are determined (S=1- $E_{\rm p}/E_{\rm max}$ ; measured field strength with the sample: E, without the fabric: E\_\_\_\_). Minimum requirements: see part 5.

# Part 5 - Material performance and design

- · Material requirements tested in accordance with EN 1149-1: The specific surface reactivity must be less than or equal to 2.5  $\times 10^{9} \Omega$ .
- · Material requirements tested in accordance with **EN 1149-3**:  $t_{50}$ < 4s or S>0.2 (half life charge decay < 4s and shielding factor
- · If the material has conductive threads in a striped or grid pattern the distance between the conductive threads must not be greater than 10 mm in one direction.

## Design requirements

· Electrostatic dissipative protective clothing must always cover the body, arms and legs including the clothing worn underneath it. It is important that the wearer is earthed (such as by wearing conductive shoes).

Thin, non-dissipative additional elements such as labels/emblems, reflective stripes etc. are permitted provided that they are permanently attached so that they do not become completely or partially detached from the electrostatic dissipative protective

· Conductive components (zips, buttons etc.) are permitted, provided that they are completely covered by the dissipative outer material when the protective clothing is

# Example areas of use:

Utility companies (gas area), gasworks, pyrotechnics industry, emergency services.

# EN 61482-2



# **Protective clothing** against the thermal hazards of an electric arc

An electric arc is an luminous electrical discharge in the event of a short circuit. It usually does not last longer than one second and can give rise to temperatures over 10,000°C. In addition to convective heat and molten metal splashes, a great deal of radioactive heat is generated, which is invisible to the human eve and can result in serious second and third degree burns. The shock wave that occurs has a great deal of mechanical destructive force, which can cause walls to collapse.

### Performance requirements:

- Arc flash tested materials and items of clothing must be permanently flame retardant, isolate the wearer from the heat and may not melt. (With the exception of small holes which may not be greater than 5 mm in diameter.)
- It may not continue to burn for more than 5 seconds after the incident
- The front section of the body and the arms must be at least double-layered.
- · Design elements such as hoods in which energy could get caught are not permitted.
- · Undergarments made from inflammable material are recommended.

It is important to regularly clean the garments so that the flame retardant properties are not affected by contaminants. Oil and water repellent finishes are therefore recommended, which must be regularly reapplied during maintenance and cleaning cycles.

There are two arc protection classes:

Class 1: Arc duration 0.5s, short circuit current 4 kA

Class 2: Arc duration 0.5s, short circuit current 7 kA

## Example areas of use:

Chemical and petrochemical industries, oil refineries, steel industry, utility companies, gasworks and electrical plants.

# **DIN EN 13034**



**Protective clothing** against liquid chemicals

Performance requirements for chemical protective clothing offering limited protective performance against liquid chemicals (type

## Material requirements:

- · Abrasion resistance: Abrasive paper test downward force of 9 kPa: Classes 1-6: >10 - >2000 cycles.
- · Tear resistance (trapezoid procedure): Classes 1-5: >10N - >150N
- Tensile strength: Classes 1-6: >30N - > 1000N
- Puncture resistance: Classes 1-6: >5N- >50N
- · Liquid repellency: A jet of liquid chemicals over 10s (sulphuric acid, sodium hydroxide, o-Xylene, Butan-1-ol). Class 3 must be achieved for at least one chemical (repellency index of >95%).
- Resistance to penetration by liquid chemicals: Penetration test (EN 368). Class 2 must be achieved for at least one of the chemicals listed above (penetration index of <5%).
- · Suit spray test/mist test: A test subject carries out 7 different movement sequences (e.g. climbing a ladder) whilst being lightly sprayed. This is repeated 3 times.

# Clothing requirements:

- The seams must be executed so that they prevent the penetration of liquids through stitching holes or other components of the
- Good freedom of movement/comfort with optimal protection.
- No unprotected external components such as pockets where liquid chemicals could collect are permitted (only pockets with flaps).

# Example areas of use:

Chemical industry, petroleum industry, laboratories, transport companies, galvanizing plants and decontamination facilities.

# **DIN EN ISO 20471**



See High visibility

# PPE STANDARDS

