

WELL EQUIPPED

# MAJOR PROTECT

 **PLANAM**  
Fashion for your profession



# HIGH-TECH IN ACTION

Whether involving electricity, arc flashes, flying sparks, welding beads, heat or flames – in some areas of application, things get hot every day. Even a single spark can cause an explosion in the workplace. The protective clothing of our multi-standard compliant range – Major Protect – acts as a reliable barrier between you and the source of danger.

For example, the fabric used in the EN 1149-5 certified range consists of antistatic fibres and is also equipped with a grid pattern – high-tech material that prevents electrostatic charging of the clothing. The result: optimum protection against possible flying sparks and arcing faults. In addition, the material is flourocarbon finished, creating a kind of lotus effect on its surface. This means that welding beads cannot burn through the outer shell – no chance, not even for heat and flames. This is ensured by the flame-retardant fabric, which nips hot hazards in the bud. A collection made true to the motto: "Passionate about occupational safety" – certified according to EN ISO 11611 KI. 1-A1 and EN ISO 11612 A1, B1, C1, E3 and F1.

And, last but not least, the range is also available in a high-visibility version, which also ensures maximum visibility.



**Certified according to EN 13034:2005 Type 6**

Finished outer shell creates a lotus effect that protects against liquid chemicals, light splashes and sprays



**Certified according to EN 1149-5:2018 and IEC 61482-2**

Fabric with grid pattern of antistatic fibres protects against ignition sparks, as well as electric arcs



**Certified according to EN ISO 11612:2015 A1, B1, C1, E3, F1**

Flame-retardant fibres protect against burns and prevent the outer shell from continuing to burn



**Certified according to EN ISO 11611:2015 KI. 1, A1**

the special range protects you from the hazards of welding work thanks to its robust fabric.



# THE RIGHT CHEMISTRY

When the chemistry between man and workwear needs to be right, while conquering the hazards of everyday work, our multi-standard compliant Major Protect range is the only right choice.

Hazard zone – chemical and petrochemical industry: Oil and all kinds of chemicals are handled here, while liquid aerosols in the form of splashes and sprays are found in the air. If only the dangers would just roll off the clothes like water off a duck's back, right? That is exactly why we have equipped the outer shell with a finish that protects you from chemical splashes and the like – according to the specifications of EN 13034 Type 6.

In order to maintain the certified protection, the workwear **must** be re-coated every time it is washed. The corresponding washing additive Hydrob FC (Art. No. 9940011) is available from us in 10 kg containers.

The top priority in our Major Protect range is ensuring effective protection against exposure to small quantities of sprayed aerosols and low hazard chemicals. The collection offers additional safety in the form of high-visibility protection, thereby ensuring maximum visibility.

Every item in our Major Protect range meets the requirements of specific DIN standards that are placed on the respective garments due to various hazards found in the place of use. Depending on the requirements, our products are, therefore, classified differently. Major Protect high-visibility protection also meets the protection specifications according to DIN EN ISO 20471. This means: Each of these items also has a high-visibility protection classification, as does the combination of the garments with each other.



**Fluorescent material**  
With a high signalling effect

**Reflective stripes**  
For maximum visibility

**High visibility**  
Only with matching jacket and trousers



# MAJOR PROTECT

	MAJOR PROTECT HIGH VISIBILITY	MAJOR PROTECT
<b>MATERIAL</b>	64 % cotton, 35 % polyester, 1 % carbon fibres, 2/2 diagonal twill (weight approx. 370 g/m <sup>2</sup> ) anti-static, flame-retardant and flouorocarbon finished	64 % cotton, 35 % polyester, 1 % carbon fibres, 2/2 diagonal twill (weight approx. 370 g/m <sup>2</sup> ) anti-static, flame-retardant and flouorocarbon finished
<b>DESIGN</b>	Reflective tape, Reflective material silver	
<b>COLOURS</b>	yellow/royal blue	royal blue/grey
<b>CLOTHING SIZES</b>	<b>Normal sizes</b> 42 – 44 – 46 – 48 – 50 – 52 – 54 – 56 – 58 – 60 – 62 – 64 <b>Slim sizes</b> 90 – 94 – 98 – 102 – 106 – 110	<b>Normal sizes</b> 42 – 44 – 46 – 48 – 50 – 52 – 54 – 56 – 58 – 60 – 62 – 64 <b>Slim sizes</b> 90 – 94 – 98 – 102 – 106 – 110
<b>CARE INSTRUCTIONS</b>	 <p>The protective clothing must be re-coated every time it is washed. Hydrob FC washing additive (Art.Nr. 9940011) can be purchased from us in a 10 kg container.</p>	 <p>The protective clothing must be re-coated every time it is washed. Hydrob FC washing additive (Art.Nr. 9940011) can be purchased from us in a 10 kg container.</p>



## APPLICATIONS

Different professions place different demands on workwear. We have provided a simple overview summarising the applications for which the Major Protect range is suitable.



You can find more information about our range and its applications via the QR code or at [www.planam.de/applications](http://www.planam.de/applications)

-  Metal industry
-  Installation / Electrical / Building services
-  Municipal services / Road construction
-  Chemistry / Oil
-  Heat / Welding protection



# MAJOR PROTECT

## High Visibility Jacket



Welding beads won't get lost in your pockets thanks to the **protruding pocket flaps**

### EXTRAS

- + front opening with buttons
- + 2 chest pockets with flaps
- + front pockets with flaps
- + 2 reflective strips around the stomach and the sleeves

### CLOTHING SIZES

#### Normal sizes

42 – 44 – 46 – 48 – 50 – 52 – 54 – 56 – 58 – 60 – 62 – 64

#### Slim sizes

90 – 94 – 98 – 102 – 106 – 110

### CERTIFICATES AND STANDARDS



EN ISO 11611:2015  
Cl. 1, A1



EN ISO 11612:2015  
A1, B1, C1



EN 13034:2005  
+ A1:2009  
Type 6



EN 1149-5:2018



IEC 61482-2  
APC=1




EN ISO 20471:2013  
+A1:2016



UV STANDARD 801  
UV 50+75  
TESTED 2016

**Note:** Complete protection is only guaranteed when the clothing is worn as a suit.



 View this item from all angles under "Products" at [planam.de](http://planam.de)

### APPLICATIONS



### COLOURS




5202  
yellow/royal blue

# MAJOR PROTECT

## High Visibility Trousers



 View this item from all angles under "Products" at [planam.de](http://planam.de)

### APPLICATIONS



Always have your important tools to hand thanks to the **ruler pocket**

### EXTRAS

- + button waistband and fly
- + 2 vertical front pockets
- + 1 thigh pocket with flap on the left
- + 1 ruler pocket with flap on the right
- + 2 rear pockets with flaps
- + 2 reflective stripes around each leg

### CLOTHING SIZES

#### Normal sizes

42 – 44 – 46 – 48 – 50 – 52 – 54 – 56 – 58 – 60 – 62 – 64

#### Slim sizes

90 – 94 – 98 – 102 – 106 – 110

### CERTIFICATES AND STANDARDS



**Note:** Complete protection is only guaranteed when the clothing is worn as a suit.

### COLOURS



5222  
yellow/royal blue

# MAJOR PROTECT

## High Visibility Dungarees



Perfect fit thanks to the **high back** with braces



Greater freedom of movement thanks to the **waistband adjustment** on the sides

### EXTRAS

- + waistband adjustment using buttons
- + button fly
- + clip buckles
- + stretchy back
- + bib pocket with flap
- + 1 thigh pocket with flap on the left
- + 2 rear pockets with flaps
- + 2 vertical front pockets
- + 2 reflective stripes around each leg

### CLOTHING SIZES

#### Normal sizes

42 – 44 – 46 – 48 – 50 – 52 – 54 – 56 – 58 – 60 – 62 – 64

#### Slim sizes

90 – 94 – 98 – 102 – 106 – 110

### CERTIFICATES AND STANDARDS



EN ISO 11611:2015  
Cl. 1, A1



EN ISO 11612:2015  
A1, B1, C1



EN 13034:2005  
+ A1:2009  
Type 6



EN 1149-5:2018



IEC 61482-2  
APC=1



EN ISO 20471:2013  
+A1:2016



UV STANDARD 801  
UVS 004070 TESTEX ZÜRICH

**Note:** Complete protection is only guaranteed when the clothing is worn as a suit.

### COLOURS



5232  
yellow/royal blue



View this item from all angles under "Products" at [planam.de](http://planam.de)


### APPLICATIONS



# MAJOR PROTECT

## Jacket 1-layer



 View this item from all angles under "Products" at [planam.de](http://planam.de)

### APPLICATIONS



Contents remain safe and secure thanks to the protruding **pocket flap**

### EXTRAS

- + front opening with buttons
- + 2 chest pockets with flaps
- + 2 front pockets with flaps

### CLOTHING SIZES

#### Normal sizes

42 – 44 – 46 – 48 – 50 – 52 – 54 – 56 – 58 – 60 – 62 – 64

#### Slim sizes

90 – 94 – 98 – 102 – 106 – 110

### CERTIFICATES AND STANDARDS



EN ISO 11611:2015  
Cl. 1, A1



EN ISO 11612:2015  
A1, B1, C1, E3, F1



IEC 61482-2  
APC=1



EN 13034:2005  
+ A1:2009  
Type 6



EN 1149-5:2018



UV STANDARD 801  
UV STANDARD 801  
UV STANDARD 801

**Note:** Complete protection is only guaranteed when the clothing is worn as a suit.

### COLOURS



5200  
royal blue/grey



# MAJOR PROTECT

## Jacket TDL



Contents remain safe and secure thanks to the protruding **pocket flap**

### EXTRAS

- + double layer of fabric on the front and in sleeve sections
- + front opening with buttons
- + 2 chest pockets with flaps
- + 2 front pockets with flaps

### CLOTHING SIZES

#### Normal sizes

42 – 44 – 46 – 48 – 50 – 52 – 54 – 56 – 58 – 60 – 62 – 64

#### Slim sizes

90 – 94 – 98 – 102 – 106 – 110

### CERTIFICATES AND STANDARDS



EN ISO 11611:2015  
Cl. 1, A1



EN ISO 11612:2015  
A1, B1, C1, E3, F1



IEC 61482-2  
APC=1  
APC=2 in double-layer sections



EN 13034:2005  
+ A1:2009  
Type 6




EN 1149-5:2018



UV STANDARD 801  
UV 40+50

**Note:** Complete protection is only guaranteed when the clothing is worn as a suit.



 View this item from all angles under "Products" at [planam.de](http://planam.de)

### APPLICATIONS



### COLOURS



5210  
royal blue/grey



# MAJOR PROTECT

## Trousers



Everything in its place: **the ruler pocket** keeps your important tools to hand at all times

### EXTRAS

- + button waistband and fly
- + 2 vertical front pockets
- + 1 thigh pocket with flap on the left
- + 1 ruler pocket with flap on the right
- + 2 rear pockets with flaps

### CLOTHING SIZES

#### Normal sizes

42 – 44 – 46 – 48 – 50 – 52 – 54 – 56 – 58 – 60 – 62 – 64

#### Slim sizes

90 – 94 – 98 – 102 – 106 – 110

### CERTIFICATES AND STANDARDS



EN ISO 11611:2015  
Cl. 1, A1



EN ISO 11612:2015  
A1, B1, C1, E3, F1



IEC 61482-2  
APC=1



EN 13034:2005  
+ A1:2009  
Type 6



EN 1149-5:2018



**Note:** Complete protection is only guaranteed when the clothing is worn as a suit.

### COLOURS



5220  
royal blue/grey



View this item from all angles under "Products" at [planam.de](http://planam.de)

### APPLICATIONS





# MAJOR PROTECT

## Dungarees



Perfect fit thanks to the high back with braces



Adjustable thanks to the elastic in the waistband



Greater freedom of movement thanks to the adjustment options on the sides

### EXTRAS

- + waistband adjustment using buttons
- + button fly
- + clip buckles
- + elasticated back
- + bib pocket with flap
- + 1 thigh pocket with flap on the left
- + 2 rear pockets with flaps
- + 2 vertical front pockets

### CLOTHING SIZES

#### Normal sizes

42 – 44 – 46 – 48 – 50 – 52 – 54 – 56 – 58 – 60 – 62 – 64

#### Slim sizes

90 – 94 – 98 – 102 – 106 – 110

### CERTIFICATES AND STANDARDS



EN ISO 11611:2015  
Cl. 1, A1



EN ISO 11612:2015  
A1, B1, C1, E3, F1



IEC 61482-2  
APC=1



EN 13034:2005  
+ A1:2009  
Type 6




EN 1149-5:2018



UV STANDARD 801  
UV 80+  
TESTEK ZÜRICH

**Note:** Complete protection is only guaranteed when the clothing is worn as a suit.

 View this item from all angles under "Products" at [planam.de](http://planam.de)

### APPLICATIONS



### COLOURS



5230  
royal blue/grey



# STANDARDS & CERTIFICATION



## EN ISO 11611 – PROTECTIVE CLOTHING FOR WELDING AND RELATED PROCESSES

Clothing in accordance with EN ISO 11611 serves to protect individuals when they are carrying out welding work and associated procedures with comparable risks. This clothing protects the wearer against small metal splashes and weld beads, as well as against brief contact with flames and radiant heat from the electric arc. In standard welding conditions, it offers limited electrical insulation against DC voltage of up to approximately 100 V.

### Standard EN ISO 11611 subdivides clothing into the following classes according to the protection it provides:

Class 1 = Protection for less hazardous welding techniques and situations with low level spatter and low radiant heat

Class 2 = Protection for more hazardous welding techniques and situations with high levels of radiant heat



## EN ISO 11612 CLOTHING GIVING PROTECTION AGAINST HEAT AND FLAMES

Protective clothing offering protection from brief contact with flames and at least one type of heat. The heat can be convective, radiant or caused by large splashes of molten metal – or caused by a combination of these. The requirements for limited flame spread must always be met.

- Code A1 – A2 = Protection against limited flame spread
- Code B1 – B3 = Protection against convective heat
- Code C1 – C4 = Protection against radiant heat
- Code D1 – D = Molten aluminium splashes
- Code E1 – E3 = Molten iron splashes
- Code F1 – F3 = Contact heat



## IEC 61482-2 PROTECTIVE CLOTHING AGAINST THE THERMAL HAZARDS OF AN ELECTRIC ARC

The standard is based on a test that simulates the effect of an electric arc on the front of the body at chest height. The clothing is not electrically insulating protective clothing – it offers no protection against electric shocks. Suitable additional protective equipment (e.g. gloves, hoods, visor) is required for full personal protection. Clothing must always be worn closed. Protective clothing to be worn when working with a low voltage, such as for example a domestic service box, to protect the wearer against the thermal effects of an electric arc.



## EN 13034, TYPE 6 PROTECTIVE CLOTHING AGAINST LIQUID CHEMICALS

Protective clothing offering limited protection against the effects of chemicals of low hazard potential sprayed in small quantities (liquid aerosol, spray) or spattered (at low pressure). No full liquid permeation barrier, as the wearer can take timely and appropriate action when there is contamination. The protective clothing is used, for example, in the chemical and oil industries and in laboratories.

Each requirement is given a classification according to its performance level. These are listed in EN 14325, Test methods and performance classification of materials, seams, joins and assemblages.

R and P are tested with reference chemicals H<sub>2</sub>SO<sub>4</sub> (30%), NaOH (10%), o-xylene (solvent, undiluted), butane-1-ol (solvent, undiluted). It should be noted that the results cannot be transferred to other chemicals and appropriate additional testing must be carried out.

### Performance classes

H <sub>2</sub> SO <sub>4</sub> R	=	class 3, P = class 3
NaOH R	=	class 3, P = class 3
Class 3	=	R > 95%, P < 1%
Class 2	=	R > 90%, P < 5%
Class 1	=	R > 80%, p < 10%

The clothing does not offer protection against organic solvents.



## EN 1149-3 TEST METHODS FOR MEASUREMENT OF CHARGE DECAY

Measurement of the discharge of electrostatic charges from the surface of clothing materials. Charge decay = the transfer of a charge via or through a material, which results in a reduction in the charge density or the surface potential at the point the charge was located. Typical areas for use are fuel supply companies (e.g. gas, liquid fuels, fuels), the petrochemical industry, petrol stations, tank cleaning companies, etc.

Safe earthing, e.g. with conductive footwear (shoe resistance ≤ 10ex8), is to be ensured. Full body coverage (including the clothing worn underneath) must not be removed in explosive areas. Always wear clothing fastened. Additional work-specific risk analyses are necessary where work in explosion zone 0 and involving gas/vapour and air mixtures in explosion group IIC is concerned.

## EN 1149-5 PERFORMANCE REQUIREMENTS FOR ELECTROSTATIC PROPERTIES

This standard is part of a series of standards for testing methods and requirements for the electrostatic properties of protective clothing. It sets out the requirements for electrostatically conductive protective clothing to prevent discharges capable of igniting. In flammable atmospheres that are enriched with oxygen, the requirements may not be sufficient. This standard does not apply to protection against mains voltage.



## UV PROTECTIVE CLOTHING WITH INTEGRATED SUN PROTECTION

The largest organ of the human body is the skin, and it is exposed to great danger in summer. UV rays from the sun can increase the risk of skin cancer. Standard textiles are radiolucent, providing insufficient protection.

PLANAM's UV-protective clothing gives guaranteed certified safety. Awarded UV protection certificates "PROTECT 80" and "PROTECT 40", this range guarantees maximum prevention. Just like for sunscreens, the figure indicates the protection factor for spending longer in the sun safely. Our PLANAM models allow the wearer to remain in the sun 80 or 40 times longer than those without protection. With their integrated sun protection factor, the finished garments provide the skin with optimum protection. Those with sensitive skin can stay in the sun longer without having to cover themselves in sunscreen. It is important to know the individual skin type in order to determine the individual's protection time (length of possible exposure to the sun without risk of skin damage). The UV protection factor specified (e.g. Protect 80) gives the factor by which the individual's protection time can be extended just by wearing these textiles.





#### PICTOGRAM:

Labelling is with the pictogram and the class 1, 2 or 3.

The clothing's instructions for use must also state that the service life of the product is not solely dependent on the number of cleaning cycles, but also on use, care and storage.

#### REFLECTIVE BAND

The Reflective Material has been designed for use on high-visibility clothing, workwear and professional clothing to improve the visibility of the wearer when it is dark or visibility is poor. The material shines a brilliant white when illuminated by vehicle headlights, even if the wearer is at the edge of the road. Reflective Material is composed of exposed retroreflective lenses bonded to a durable blended fabric (65% polyester / 35% cotton). It far exceeds the minimum retroreflective performance required by the highest category (class 3). Its retroreflective properties are not dependent on the direction the clothing is facing.





# PERSONALISATION IN NEXT TO NO TIME

Workwear is advertising space for your logo and acts like a business card for your company. Personalisation ensures a recognisable and positive company image. Our finishing service brings your message to a wider audience in a customised, professional and fast manner.

PLANAM Individual specialises in personalising your workwear. From reflective appliqués to transfer prints and embroidery, we offer multiple personalisation options of the highest quality. Whether you need small quantities for handicraft businesses or large runs for industrial companies – our team of experts are on hand to provide you with personal advice and detailed information about the optimal finishing types for our products. This also includes finishing options with methods specifically adapted to the certification requirements of certified protective clothing.



**+49(0)5245-86060**

**Individual logo,  
individual support**  
You can call us for advice  
from Monday to Friday  
between 8am and 5pm.

## MAJOR PROTECT

### MEN'S

High Visibility Jacket	yellow/royal blue	5202
High Visibility Trousers	yellow/royal blue	5222
High Visibility Dungarees	yellow/royal blue	5232
Jacket 1-layer	royal blue/grey	5200
Jacket TDL	royal blue/grey	5210
Trousers	royal blue/grey	5220
Dungarees	royal blue/grey	5230
Washing additive Hydrob FC	10 kg container	9940011



You can view interactive images of products from the Major Protect range here:





MEDIUM Marken, Kommunikation, Beisfeld

Your PLANAM specialists

  
Fashion for your profession