



# New range ambulance clothing

For many years, SIOEN Apparel has a specific clothing range for medical intervention teams. Now, this collection has been renewed, in order to fulfill the actual needs of our aid and ambulance workers.

## Ambulance clothing 4

When we developed our new models, we focussed on the needs of the ambulance workers in the field. They require comfortable clothes, that protect against the rain and cold of the winter. In warm weather conditions however, they need light and breathable clothes.

The clothes perfectly protect the wearer against the transfer of microorganisms and resist industrial cleaning. Ambulance-workers often operate in difficult circomstances (e.g. traffic accidents). That is why we use fabrics with a high mechanical strength for the manufacturing of the clothes.

Of course, in order to offer full protection, the clothes have to be worn in combination with other personal protective equipment, like disposable gloves, safety shoes... Our ambulance clothing are part of the Vidal collection. *Vidal Protection* is a division of SIOEN Apparel, specialised in protective clothing for firefighters and other emergency service workers.

## Anti-stab and bulletproof clothing......12 Anti-slash protective clothing.....16

In this folder you will also find some products that are part of the S.A.T. collection.

S.A.T. (SIOEN Armour Technology) is a division of SIOEN Apparel, specialised in the development of bulletproof vests. Under the Torskin brandname, S.A.T. offers comfortable clothes that offer optimal protection against cut and slash attacks.



## **Brussel**

#### 2658A2EU1

## High-vis parka



100% waterproof - windproof - breathable - water repellent outer fabric moisture attracting coating on the inside - comfortable - supple - high tear resistance - protection against transmission of microorganisms

#### Outside

- straight collar with fleece lining
- integrated, adjustable hood with chin protection and flap
- » zip closure under double flap with press studs
- » 2 set-in chest pockets with zip closure
- » 2 patched chest pockets with flap
- » adjustable radio pocket
- » pen pocket
- » mica pocket
- » radio loop at shoulder height
- » touch and close fastening for badge on right sleeve
- » 1 inside pocket
- » 2x2 set-in pockets with flap-/zip closure on waist height
- » manchette tricot in the sleeves
- » adjustable sleeve with press studs
- » retro-reflective stripes with prism technology

#### **Fabric**

- » SIOPOR® Ultra: 100% polyester fabric with 100% PU-coating,  $\pm$  195 g/m<sup>2</sup>
- Inside lining: 100% polyester fabric with 100% PU-coating,  $\pm$  160 g/m<sup>2</sup>

#### Measurements

XS - S - M - L - XL - XXL - XXXL

#### Colour

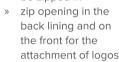
» 450 fluorescent yellow/turquoise



#### Inside

- » fixed lining
- » 1 set-in pocket









## Gent

#### 7658A2EU1

#### High-visibility blouson



100% waterproof - windproof - breathable - water repellent outer fabric - moisture attracting coating on the inside - comfortable - supple - high tear resistance - protection against transmission of microorganisms

Inside

#### Outside

- » straight collar with fleece lining
- » integrated, adjustable hood with chin protection and flap
- » zip closure under double flap with press studs
- » 2 set-in chest pockets with
- » zip closure
- » 2 patched chest pockets with flap
- » adjustable radio pocket
- » pen pocket
- » mica pocket
- » radio loop at shoulder height
- » touch and close fastening for badge on right sleeve
- » 1 inside pocket
- » 2 set-in pockets with zip closure on waist height
- » sleeve narrowing and knitted cuffs by touch and close
- » retro-reflective stripes with prism technology

#### Fabric

» SIOPOR® Ultra: 100% polyester fabric with 100% PU-coating, ± 195 g/m²

» Inside lining: 100% polyester fabric with 100% PU-coating,  $\pm\,160\,\,\text{g/m}^2$ 

#### **Measurements**

XS-S-M-L-XL-XXL-XXXL

#### Colour



adjustable waistband



pen pocket



adjustable radio pocket







## **Ieper**

9658A2TU2

## **High-visibility Softshell**



Cold and wind protection - light - comfortable - supple - stitched seams

#### Outside

- » straight collar
- » zip closure with chin protection
- » 2 set-in pockets with zipper
- » mica pocket
- » round inset sleeves
- » sleeve narrowing by touch and close
- » touch and close fastening for badge on right sleeve
- » retro-reflective stripes with prism technology

#### Inside

- » 1 set-in pocket
- » compatible with parka 2658 or blouson 7658

#### **Fabric**

Two-layer softshell: 100% polyester stretch with 100% polyester fleece inside,  $\pm$  250 g/m<sup>2</sup>

#### **Measurments**

S-M-L-XL-XXL-XXXL

#### Colour









## Eupen

5658A2EU1

## **High-visibility Gilet**

100% waterproof - windproof - breathable - waterrepellent outer fabric - moisture attracting coating on the inside - high tear resistance - protection against transmission of microorganisms

#### Outside

- V neck model
- central zip closure
- 2 patched pockets with flap
- adjustable radio pocket
- pen pocket
- mica pocket
- radio loop at shoulder height
- » touch and close fastening for badge on right chest
- » 2 patched pockets with flap closure on waist height with one pocket being an inside pocket with zip closure
- » retro-reflective stripes with prism technology

#### Inside

zip opening in the back lining and on chest height in the front for the attachment of logos

#### **Fabric**

- » SIOPOR® Ultra, 100% polyester fabric with 100% PU-coating,  $\pm$  195 g/m<sup>2</sup>
- » Inside lining: 100% polyamide fabric,  $\pm$  65 g/m<sup>2</sup>

#### Measurements

XS - S - M - L - XL - XXL - XXXL

#### Colour







## **Eeklo**

#### 558AA2MC1

#### High-visibility polo



Light - moisture regulating properties - strong - supple - machine washable- stitched seams - permanently anti-bacterial (nano-silver technology)

#### Outside

- » Model with lay down collar
- » Closure with 3 buttons
- » Short sleeves
- » Ventilating mesh at armpit height
- Welded and segmented reflective stripes

#### **Fabric**

SIO-COOL® Classic: 100% polyester pique, ± 180 g/m²

#### Measurements

XS-S-M-L-XL-XXL-XXXL

#### Colour

» 450 fluorescent yellow/turquoise











## **Fleurus**

#### 658AA2MC1

#### Polo

Light - moisture regulating properties - strong - supple - machine washable - stitched seams - permanently anti-bacterial (nano-silver technology)

#### Buitenzijde

- » Model with lay down collar
- » Closure with 3 buttons
- » Short sleeves
- » Ventilating mesh at armpit height

#### **Fabric**

SIO-COOL® Classic: 100% polyester pique, ± 180 g/m²

#### Measurements

XS-S-M-L-XL-XXL-XXXL

#### Colour













## Geel Genk

758AA2PB4 (heren)

**759**AA2PB4 (dames)

## **High-visibility trousers**

Fluorescent carbon finish (Hydro-Tec\*) with limited protection against chemical splashes - hydrophobic - very durable

#### Outside

- » Front fly with zip closure
- » Closure with metal button
- » 2 inclined set-in pockets on hip height
- » 2 patched pockets on the thigh
- » 1 patched pocket and 1 patched pocket with flap on the back
- » waistband reinforced with 7 loops
- » ergonomic and comfortable preshaped knee reinforcements
- » retro-reflective stripes with prism technology

#### **Fabric**

80% Polyester + 20% cotton (warp : 100% polyester filament - weft : 65% polyester + 35% cotton),  $\pm$  225 g/m<sup>2</sup>

#### Measurements

36-56 (women), 36-60 (men)

#### Colour







## Hasselt

86582PTH

### **High-visibility trousers (Unisex)**



Dirt- and waterrepellent (Teflon®) - quick drying - breathable - stretchable - very comfortable - supple - strong

#### Outside

- » Fly with zip closure and closure with 2 metal buttons
- » 2 set-in pockets with zip closure
- » 1 set-in pocket on the thigh with zip closure
- » 1 set-in pocket on the back with flap and zip closure
- » 1 set-in (smart)phone pocket on the right leg
- » waistband with elastic, reinforced with 7 loops
- » pant leg narrowing with press studs
- » ergonomic and comfortable preshaped knee reinforcements
- » back seam, stitch tog with 3 needle lapseam
- » retro-reflective stripes with prism technology

#### Fabric

TeXXion HV, 89% polyester + 11% elasthane,  $\pm$  250 g/m² Reinforcements : 80% polyester + 20% cotton,  $\pm$  225 g/m²

#### Measurements

XS - S - M - L - XL - XXL - XXXL

#### colour



ergonomic preshaped knee reinforcements





smartphone pocket





## **Sioen Armour Technology**

S.A.T. specialises in customised, protective solutions. The bulletproof and anti-stab vests are considered to be the most reliable ones on the market. The vests are very comfortable and offer maximum protection.



## Bulletproof and anti-stab protective clothes

A broad range of solutions, which correspond to the most important international norms and standards, like HOSDB 2007 (UK) and NIJ (USA). In the following, we'll highlight some of our most interesting products for emergency service workers. For more info, please check our website: www.sioenarmour.com

S.A.T. offers a large number of solutions ('carriers'):

For an aid-ambulance worker we have selected two models:

- Model 1B59 is our covert type and is perfect for discrete assignments and daily use.
- Model 1BG4 belongs to our overt collection. The vest is intended to be worn over clothes and
  is clearly visible due to the use of fluorescent / retro-reflective fabrics.

Two ballistic panels (front and back armour plates) can be shoved in the carrier in order to protect the vital organs.





## **Ballistic solutions (armours)**

All our solutions are CE-approved.



REF. BBN3A005

**Bulletproof protection** (NIJ IIIA): 5.57 kg/m<sup>2</sup>

The ballistic insert offers protection against the most used guns. This solution was tested with the 9mm Full Metal Jacket Round Nose (FMJ RN) and the .44 Magnum Semi Jacketed Hollow Point (SJHP) with a speed of 436 m/s. Anti-trauma plates were placed near the heart and vertebral column in order to reduce the trauma. The ballistic suit allows a trauma of maximum 44mm



#### REF. SAT7011 as

Knive and spike resistant protection KR1-SP1: (HOSDB 2007): 5.70 kg/m<sup>2</sup>



Our knive and spike resistant solutions offer protection against attacks with knives and so-called self-made pointed weapons. The insert was tested on knive attacks with an energy impact up to 36 Joule and spike attacks up to 24 Joule.



#### **REF. SAT 71010D**

**Bullet- and knive resistant protection** HG1A-KR1: (HOSDB 2007): 7.03 kg/m<sup>2</sup>



Allround bullet and knive resistant armour, which offers protection against 9mm and 0.357 Magnum calibre with a speed of 365 m/s en 391 m/s respectively and with a maximum trauma of 44mm. In addition, the ballistic suit also offers protection against knive protection with an energy impact up to 36 Joule.



#### REF. SAT 7222BEL+

Multi-purpose bulletproof, knive and spike resistant pro-



#### HG2-KR2-SP2 (HOSDB 2007): 9.47 kg/m<sup>2</sup>



The suit offers the highest protection available on the market in the domain of soft ballistic solutions. This solution was tested with a 9mm and 0.357 Magnum calibre. The speed amounted to 430 m/s and 455 m/s respectively and with a maximum trauma of 25mm. The ballistic suit offers a high knive-resistant (energy impact up to 50 Joule) and a spike-resistant protection up to 33 Joule.



## **Pollux**

#### 1B59C0P01

#### **Covert**

Anatomical design - Comfortable - supple durable - light - ergonomic

#### Outside

- » elasticitized shoulder straps
- » adjustable side panels
- » 360° protection

Thermoliner with extra heat- and sweatmanagement thanks to the usage of PCM capsules (Phase Change Material) Superfluous warmth is stored in the capsules and released when the body temperature is lower

#### **Fabric**

- » 67% polyester + 33% cotton,  $\pm$  240 g/m<sup>2</sup>
- » Theromoliner: Outlast®, 100% polyester with acrylic coating with PCM capsules,  $\pm$  180 g/m<sup>2</sup>
- » Inner fabric : 100% polyester mesh,  $\pm$  95 g/m<sup>2</sup>

#### Measurements

XS - S - M - L - XL - XXL - XXXL

#### Colour

» NS0 black











Outlast thermoliner

back

Removable inside



## Helios

### 1BG4F1F**0**1

FLEXOTHANE CLASSIC

#### **Overt**

Water- and windproof - stretchable - comfortable - durable chemical splash protection

#### Outside

- » zip closure under flap
- » adjustable shoulder straps and side panels
- » shoulder marks
- » radio loops
- touch and close fastening on the chest and back for the attachment of the customer's logo
- retro-reflective stripes with glass bead technology
- » 360° protection

#### Inside

- » 1 inside pocket
- » 2 pen pockets
- » 1 mica pocket
- » comfort 3D spacer

#### **Fabric**

- » FLEXOTHANE® Classic, 100% polyamide with 100% PU-coating,  $\pm$  180 g/m<sup>2</sup>
- » inner fabric: Comfort Control 3D Spacer (3 dimensional tissue), 100% polyester,  $\pm 450$  g/m<sup>2</sup>

#### Measurements

XS-S-M-L-XL-XXL-XXXL

#### Colour

» FYS fluorescent yellow



Comfort Control 3D Spacer



adjustable shoulder straps



back





## Anti-cut / anti-slash protection (Torskin)

S.A.T. has launched a new range of protective clothes, which offer protection against cuts and sometimes - when upgraded - against stabs. The very comforatable Torskin collection offers reliable protection against knive attacks.



The comfortable and breathable fabric allows users to remain operational for a long time. In addition, *Torskin* products are almost seamless and can easily be worn as a base layer (directly onto the skin), but can also be used as a second layer.

In order to resist knive stabs, we've developed various anti-stab pads, which can be put away easily in special pockets inside the garment. There are pads to protect the heart, lungs, liver, kidneys, stomach (abdominal area) and the upper part of the backbone.

Vital organ zones can be protected by a double-layered cut-resistant material, combined with anti-stab pads.

Non-vital organ zones can be protected by a single, cut-resistant layer. The wrist and under arm zones are better protected if the sleeves are equipped with a double-layered, cut-resistant material.



## 1 LAYER ANTI-SLASH

## **Hecktor**

#### 003KC2MH1

### Anti-slash/-cut polo

This single-layer polo can be worn visibly and even as a base layer. Good breathability. High cut-resistant protection. ISO 13997 (1999): 15.43 N.

#### Outside

- » Model with long sleeves
- » lay down collar
- » closure with 3 buttons
- » sleeves with sleeve loops

#### **Fabric**

Innovative hybrid yarn based on an ultra high molecular weight (polyethylene and other technical textile fibres)

#### Measurments

XS - S - M - L - XL - XXL - XXXL

#### Colour

» M57 grey





## Raptor

#### 001KC2MH1

## Anti-slash/-cut T-shirt with antistab protection

ANTI-STAB

The vital organ zones are protected with a double layer structure with pockets for 6 removable anti-stab pads The forearm is protected with a double layer of anti-slash fabric. The sleeves are kept in place with thumb loops.

This T-shirt can be worn visibly and even as a base layer. Highly breathable and offers protection against cut and slash attacks ISO 13997 (1999): 31.33 N.

#### Outside

- » model with long sleeves
- » Loops at hte end of the sleeve

#### Inside

Anti-stab panels: resists maximum knife penetration of 20mm at an energy level of 15 Joule.

#### **Fabric**

innovative hybrid yarn based on an ultra high molecular weight (polyethylene and other technical textile fibres).

#### Measurements

XS - S - M - L - XL - XXL - XXXL

#### Colour

» M57 grey



# European market leader in technical clothing

Water, wind, cold, heat, flames... protective clothing can protect the wearer against all those inconveniences und hazards. SIOEN wants to offer her customers the best quality, in order to protect them in the best way possible.

SIOEN Apparel is a division of the SIOEN Industries group. SIOEN Industries is a diversified stock quoted group with an extensive portfolio: world leader in coated technical textiles, strong specialisation in high end technical apparel and specialist in fine chemicals.

SIOEN controls the entire production process, from basic components up to finished product. We spin, weave, produce pigments, coat, cut and manufacture technical textile into high-quality protective clothing. We manage the complete industrial chain, from yarn to finished product. This concept is one of the most important strategic cornerstones: we offer customers an integrated mix of different products and services, and the customer can place his trust in a sound and healthy system of quality.

#### **SIOEN Apparel in brief:**

- » Founded in 1968
- » Headquarters located in Ardooie, Belgium
- » 900 employees in Belgium, more than 4 000 employees worldwide
- » 8 production sites in 5 countries
- » More than 100 R&D people with state-of-the-art testing laboratories
- » Fully integrated from design through to supply
- » Europees market leader in high-tech quality protective clothing
- » Standard stocked items and special customized products
- » Worldwide sales in 80 countries
- » Ethical and ecological trading policy

More information on: www.sioenapparel.com























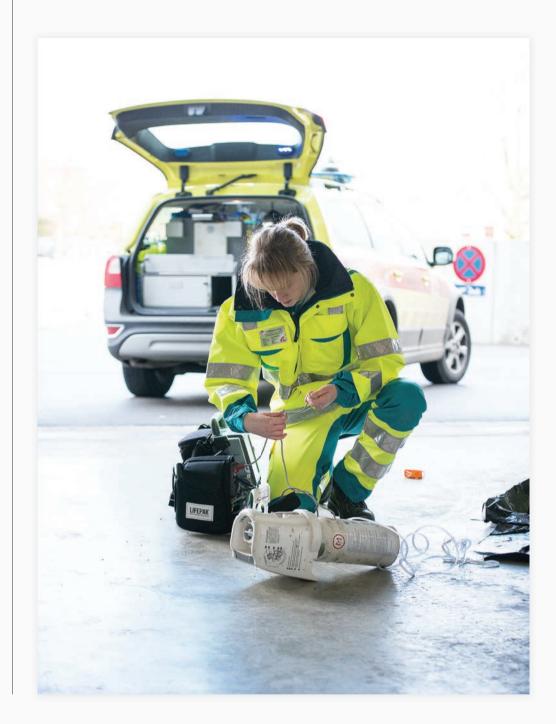














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Discover our products

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