

 **S-GARD**

When it matters most.



2018 / 2019



## Dear firefighters and rescue workers

Did you know that your safety is what drives us day in, day out? It is precisely why we work on continuously improving our protective clothing. The new S-GARD catalog provides an overview of our product range, new products and fascinating stories from the world of firefighting and rescue.

We are delighted to present one of the latest innovations on the market in the form of the Nomex® Nano flex-material by DuPont™. This fabric keeps harmful soot particles away from your skin, as you can see from page 36ff. This is why we are already incorporating this particle blocker in products such as the NANO FLAME PROTECTION HOOD (from page 58ff).

And the hood is just one of many exciting product innovations you can find in this catalog: the ENDURANCE series that is the first to combine flame protection with comfortable stretch material (p. 48) and the multi-functional fleece weather protection jacket STORMGARD (p. 65) are new additions to our range.

You will see how important the subjects of research and development are to us when you read the story relating to our research project EFAS, for instance. In this case, we are helping to develop a concept that is designed to make firefighting operations on board seagoing vessels safer (from page 20ff).

But why not just take a moment and browse through our catalog yourself? Tip: the practical overview on page 79 will help you gain a better insight into the different materials, membranes and details. Just fold it out when you start browsing to see supplementary product information.

You can find additional product information, detailed photos and videos as well as the latest news and dates of training sessions on our website: [s-gard.com](https://www.s-gard.com)

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Our thanks go to the fire services of Düsseldorf and Mönchengladbach who gave us their active support during the photo shoot.



*«As far as I am concerned,  
safety comes first. That's why  
I wear S-GARD gear.»*



## WE ARE YOUR PARTNER WHEN IT MATTERS MOST.

You fight fires and save lives. That requires courage, experience and reliance in your team and in your equipment.

So that you can feel safe in extreme situations, are optimally prepared and have the best possible protection, we can provide you with high quality firefighting clothing and modern training options. And we've been doing this for more than 130 years.

Based in Heinsberg in Germany, we develop firefighting clothing that protects you against high temperatures, moisture and toxic substances. We collaborate closely with experienced operational personnel and textile and clothing experts and are constantly at work to improve our technology, materials and equipment. We also participate in standards committees and research projects and actively contribute to the development of protection and quality standards. We see it as our task to make your work easier and safer.

Continuous upgrading and refreshing of your knowledge will contribute to providing you with all-encompassing protection. In the form of our Safetytour, we provide education and further training sessions in which we employ a wide variety of teaching methods – from individual team workshops, to dialog sessions designed specifically for senior officers to our big annual event 'Best of' there's something for everyone.

We see ourselves as a one-stop shop partner and are also able to provide you with advice on aspects such as the care, cleaning and repair of firefighting clothing. Do you have questions, wishes or suggestions? Call us! We'll take the time for you.



**Your personal S-GARD consultant is there  
for you every day from 8 a.m to 4 p.m.  
(Central European Time)**

**+49-2425-9909-0**



# WASHDAY CARE AND CLEANING

## A stress test for the station

After a stressful deployment, it's back to the station and then home as quickly as possible. Not enough attention is often paid to the cleaning and care of protective clothing; it's a burdensome chore and isn't part of the core skills of firefighting professionals. But thorough washing is particularly important. We can help.



### Impregnation is important

Correct impregnation is essential. The protective layer ensures that the upper fabric does not become water-logged and also other particles will not adhere to it so readily. At the point where water no longer forms beads and rolls off the surface, clothing needs to be re-impregnated.

### Many washes, shorter life? Not necessarily!

To make sure our protective clothing survives a number of washing cycles, we only use high quality materials, such as membranes supplied by the fabrics manufacturer Gore. The unsurpassed durability ensures a consistent appearance and the best protective properties.



#### Cleaning tip

You can use our special wash tool to clean your open jacket. Protective fabric strips cover the zipper: This prevents them from damaging your jacket during cleaning. Your jacket will also be thoroughly cleaned on the inside.

### The S-GARD Quality Standard

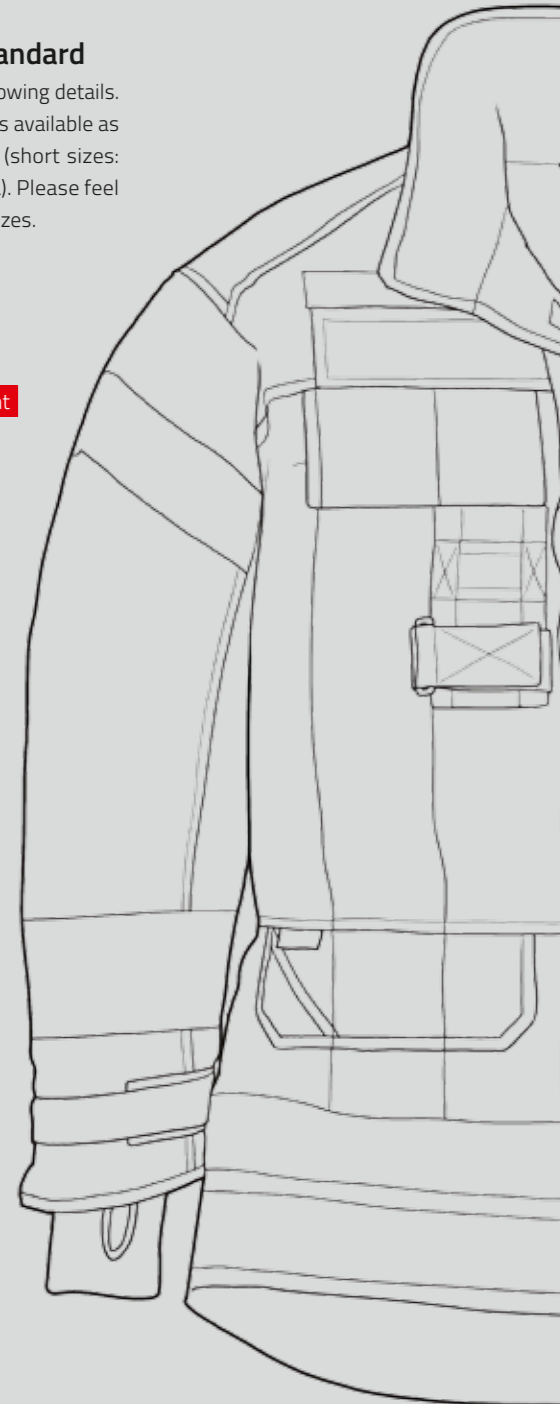
Our turnout gear features the following details. Our protective fire service clothing is available as standard in the sizes XS to 3XL (short sizes: KXS–KXXL / long sizes: LS–LXXL). Please feel free to contact us about special sizes.

Maximum ease of movement

EN standards

High level of protection

Patented ITC knitted cuffs



**FURTHER INFORMATION IS AVAILABLE AT**  
**s-gard.com**

## S-GARD PRODUCT HIGHLIGHTS AT A GLANCE

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EN 469:2005 Cl. 2	>>	>>	>>	>>	>>	>>	>>	>>	CLASS 1	CLASS 1	CLASS 1	STANDARD GENERAL
High-vis vest exemption	>>	>>	>>	>>	>>	>>	>>	>>	>>	>>	>>	
MOVE+ ease of movement	MOVE+ 3D	>>	>>	>>	>>	>>	>>	MOVE+ 3D	MOVE+ 3D	>>	>>	JACKET
Inspection openings	>>	>>	>>	>>	>>	>>	>>	>>	>>	>>	>>	
Extended back section	>>	>>	>>	>>	>>	>>	>>	>>	>>	>>	>>	
One flashlight holder with snap lock	>>	>>	>>	>>	>>	>>	>>	>>	>>	>>	>>	
One tool loop on left	>>	>>	>>	>>	>>	optional	>>	>>	>>	>>	>>	
Height-adjustable radio pockets	2 not height-adjustable	2	2	2	2	2	2	1 not height-adjustable	>>	1	>>	
Knitted cuffs with ITC system	>>	>>	>>	>>	>>	>>	>>	>>	>>	>>	>>	
PRX9000 technology shoulder	not for GORE® PARALLON™ system	>>	>>	>>	>>	>>	>>	outside	>>	>>	>>	
IRS-ready: DTS pocket and tunnel	>>	>>	>>	>>	>>	optional	>>	>>	>>	>>	>>	PANTS
Integrated comfort suspender system	>>	>>	>>	>>	>>	>>	>>	detachable	detachable	>>	>>	
Two openings with integrated pocket	>>	>>	>>	>>	>>	>>	>>	only openings	>>	>>	>>	
Leg width adjustment	>>	>>	>>	>>	>>	>>	>>	>>	>>	>>	>>	
Preshaped leg seam with heel cut-out	>>	>>	>>	>>	>>	>>	>>	>>	>>	>>	>>	
Boot lock hook, joins pants and boots	>>	>>	>>	>>	>>	>>	>>	>>	>>	>>	>>	

«When I wear S-GARD gear, I know I can fully concentrate on my work.»

# PRODUCTS AT A GLANCE

## All clothing series for your work

You know exactly what your protective equipment has to cope with in everyday use and the high demands you place on coats and pants. All the details at a glance.

Find our product range online on [s-gard.com](http://s-gard.com)

Discover our series in detail



# ULTIMATE SERIES

## Developed for extreme situations

The latest developments in material technology meet modern, flexible and athletic design for the greatest possible protection and comfort.

EN 469:2005 Cl. 2

MOVE+ 3D



Chest pocket, radio-compatible  
Holder for an angle-head flashlight



gold-cognac

### ULTIMATE COAT

- MOVE+3D ease of movement with High Reach sleeve design
- Ergonomically angled S-Pocket design
- Body Language reflective strips
- PRX9000 technology in the shoulder area (not on GORE® PARALLON™ system)
- IRS-ready: DTS pocket, tunnel, tool loop on left
- Two chest pockets, radio-compatible



gold black-blue

- Reinforced/extended grips on front pockets and adjusting elements
- Napoleon bag
- Reinforced cuff edges
- 3M 9687 Tripletrim reflective strips with quadruple seams
- High-visibility vest exemption in combination with pants

#### Material variants:

PBI® / GORE® PARALLON™ system | gold cognac  
DuPont™ Nomex® TITAN / GORE® PARALLON™ system | gold black-blue  
Nomex® TITAN / AIRLOCK® | gold black-blue  
Nomex® TITAN / AIRLOCK® | red black-blue  
Nomex® TITAN / Fireblocker | gold black-blue

External shoulder protectors

Ergonomically shaped collar with chin guard and Heat Seal design

Tool pocket on the left upper arm

see flap p. 79

Waterproof multigrip front closure

Cargo pockets with snap-hook loops and Load Control System

Knitted cuffs with ITC system

EN 469:2005 Cl. 2

Boot lock hooks



gold black-blue

### ULTIMATE PANTS

- Integrated comfort suspender system
- Padded knee area with PRX9000 technology
- Two cargo pockets with Load Control System
- Ergonomically angled S-Pocket design
- Boot lock hook, joins pants and boots
- MOVE+3D freedom of movement with Leg Mobility design and preformed sections
- PRX9000 technology on rear flap (not for GORE® PARALLON™ system)
- Access gusset and side placket
- Two openings with pocket pouches
- High-visibility vest exemption in combination with jacket

#### Material variants:

PBI® / GORE® PARALLON™ system | gold cognac

DuPont™ Nomex® TITAN / GORE® PARALLON™ system | gold black-blue

Nomex® TITAN / AIRLOCK® | gold black-blue

Nomex® TITAN / AIRLOCK® | red black-blue

Nomex® TITAN / Fireblocker | gold black-blue

## BEST PROTECTION, HIGH MANEUVERABILITY



gold-cognac

Grip strip

Easy Grip front closure (not for GORE® PARALLON™ system)

Reinforced/extended grips on cargo pockets and adjusting elements

Padded knee area

Three leg width adjustments

Reinforced inner leg

Boot lock hooks

Reinforced cuff edges and heel cutout at the bottom of the pre-shaped leg seam



1



2



3



4



5



6

# DETAILS

## Easy access – safe storage

The difference is in the details: nearly all pockets on jackets and pants are angled for quick and easy access. The spacious yet close-fitting pockets are ideal for carrying the things you need. All adjustment parts are easy to operate when wearing gloves.

- 1 Three leg width adjustments
- 2 MOVE+3D ease of movement
- 3 Storage pocket for IRS
- 4 External shoulder protectors
- 5 Cargo pockets with Load Control System
- 6 Boot lock hooks



Premises in 1938



Company founder  
Hubert Schmitz



Premises in 1980



Current premises

# S-GARD

## A LOOK BACK AT 130 YEARS OF EXPERTISE

With his horse-drawn wagon, Hubert Schmitz once delivered his linen material to the local weavers without knowing that he was laying the cornerstone for the S-GARD brand. Today, S-GARD is synonymous with high quality and innovative protective and functional clothing and is now being managed in its fifth generation, still at its original location in Heinsberg.

### 1887 | The beginning

In 1887, Hubert Schmitz founded a linen weaving company in Heinsberg in Germany, near the border with the Netherlands. Initially Hubert Schmitz produced fabrics made of jute or flax. These were used as covered wagon canopies, windmill sails and sail-cloth for Dutch boats using the Meuse.

### 1899/1900 | Mechanization

In the beginning, Hubert Schmitz brought his materials to hand loom weavers who worked in their own homes to produce fabrics. Around the turn of the century, the entrepreneur decided to install mechanized looms at his premises.

### 1920 | Cotton captures the market

After the First World War, cotton fabrics became increasingly sought after. Heinrich Schmitz, Hubert Schmitz's son, started to produce articles for domestic use, such as hand towels and bedding.

### 1933–1945 | World War interrupts business

In the time just before and during the Second World War, the business was shut down because director Heinrich Schmitz was unwilling to play by the rules of the Nazis.

### 1950–1960 | Fabrics for heavy industry

In the 1950's Heinrich Schmitz's son Hans-Heinrich Schmitz expanded the scope of the business. The old, heavy but robust machines were capable of producing 600 g/m<sup>2</sup> cotton fabric of the sort needed to make protective clothing for miners. The weaving mill - to which a dye works and clothing manufacturing plant had been added - then produced protective clothing for use in the coal mining and metal heavy industries.

### 1980er |

#### Health and safety become increasingly important

In the 1980's there was increasing emphasis on occupational health and safety in Germany: road workers needed to be better protected. Hubert Schmitz GmbH began producing high-visibility clothing. In 1989, the S-GARD brand was officially trademarked.

### 1990er |

#### Standardized fire department protective clothing

Following the introduction of the protective clothing for firefighters standard EN 469 in Europe and the corresponding HuPF guidelines in Germany,

### 2018 | Market leader

Under the management of Bruno and Hubert Schmitz, the sons of Heinrich Schmitz, Hubert Schmitz GmbH has become the market leader for high quality firefighter protective clothing in the German-speaking countries. S-GARD is represented on many standardization committees, actively collaborates in research projects and has recently been successively awarded the 'Innovation through Research' seal of approval by the Federal Ministry of Education and Research (BMBF).

Hubert Schmitz GmbH decided to extend its scope of operations. It now begins to specialize in the manufacture of protective firefighter clothing. Here it places a particular emphasis on the quality of its products. To both make sure of this and guarantee the best level of safety, S-GARD began to work from the very start with leading fabric brand partners such as Gore, 3M and DuPont™.

### 2008 | Specialization

Hubert Schmitz GmbH begins to focus solely on the manufacture of state-of-the-art and innovative protective clothing. In addition to firefighter protective clothing, S-GARD develops and produces clothing for specialized applications, such as high visibility and height rescue clothing and workwear for the emergency and technical assistance services.





EN 469:2005 Cl. 2

DTS/IRS  
rescue system



Storage pocket for IRS

Holder for an  
angle-head flashlight

PRX9000 shoulder  
protectors

MOVE+ design

Height-adjustable  
radio pocket

Grip reinforcement

Knitted cuffs with  
ITC system



black-blue



gold

gold black-blue

### TITAN COAT

- MOVE+ ease of movement with High Reach sleeve design
- PRX9000 technology in the shoulder area
- Superimposed side pockets with bellows
- IRS-ready: DTS pocket, tunnel, tool loop on left
- Two chest pockets, height-adjustable and radio-compatible
- Reinforced/extended grips on front pockets and adjusting elements
- Napoleon bag
- Reinforced cuff edges
- 3M 9687 Tripletrim reflective strips with quadruple seams
- High-visibility vest exemption

#### Material variants:

- PBI® / AIRLOCK® | gold
- DuPont™ Nomex® TITAN / AIRLOCK® | gold black-blue
- DuPont™ Nomex® TITAN / AIRLOCK® | black-blue

## BEST INSULATION WITH EASE OF MOVEMENT



black-blue

gold

Bellows pocket  
with knife pocket

### TITAN PANTS

- Integrated comfort suspender system
- MOVE+ ease of movement
- PRX9000 technology on rear flap
- Access gusset and side placket
- Reinforced/extended grips on cargo pockets and adjusting elements
- Two openings with pocket pouches
- High-visibility vest exemption in combination with jacket

#### Material variants:

- PBI® / AIRLOCK® | gold
- DuPont™ Nomex® TITAN / AIRLOCK® | gold black-blue
- DuPont™ Nomex® TITAN / AIRLOCK® | black-blue



Kidney protection with  
PRX9000 protectors

Reinforced grips

Padded knee area  
with aramid fleece

Reinforced inner leg

Leg width adjustment

Reinforced cuff edges and heel  
cutout at the bottom of the  
pre-shaped leg seam

see  
flap  
p. 79

EN 469:2005 Cl. 2

DTS/IRS  
rescue system



black-blue



red black-blue

PRX9000  
technology in the  
shoulder area

Holder for an  
angle-head  
flashlight

Knitted cuffs with  
ITC system



black-blue red

### SWISSGUARD COAT

- Two loops with D-rings beneath the chest pocket flaps
  - Body Language reflective strips
  - MOVE+ ease of movement with High Reach sleeve design
  - IRS-ready: DTS pocket, tunnel, tool loop on left
  - Two chest pockets, height-adjustable and radio-compatible
  - Reinforced/extended grips on front pockets and adjusting elements
  - Napoleon bag
  - Reinforced cuff edges
  - 3M 9687 Tripletrim reflective strips with quadruple seams
  - High-visibility vest exemption
- Material variants:**  
DuPont™ Nomex® RSK / Fireblocker | black-blue  
DuPont™ Nomex® RSK / Fireblocker | red black-blue

### HUNTER COAT

- Tool pocket on the left upper arm
  - Two loops with D-rings beneath the chest pocket flaps
  - MOVE+ ease of movement with High Reach sleeve design
  - IRS-ready: DTS pocket, tunnel, tool loop on left
  - Two chest pockets, height-adjustable and radio-compatible
  - Reinforced/extended grips on front pockets and adjusting elements
  - Napoleon bag
  - Padded shoulder area with aramid fleece
  - Reinforced cuff edges
  - 3M 9687 Tripletrim reflective strips with quadruple seams
  - High-visibility vest exemption
- Material variants:**  
DuPont™ Nomex® RSK / Fireblocker | black-blue red

## IMPROVED VISIBILITY FOR ENHANCED PROTECTION



black-blue

Knife pocket

### SWISSHUNTER PANTS

- Integrated comfort suspender system
- MOVE+ ease of movement
- PRX9000 technology on rear flap
- Access gusset and side placket
- Reinforced/extended grips on cargo pockets and adjusting elements
- Preshaped leg seam with heel cut-out
- Padded knee area with aramid fleece
- Two openings with pocket pouches
- Reinforced leg cuff edges
- High-visibility vest exemption in combination with jacket

#### Material variants:

DuPont™ Nomex® RSK / Fireblocker | black-blue  
DuPont™ Nomex® RSK / Fireblocker | red



red

Reinforced inner leg

Access gusset and side placket

EN 469:2005 Cl. 2

Comfort suspender  
system



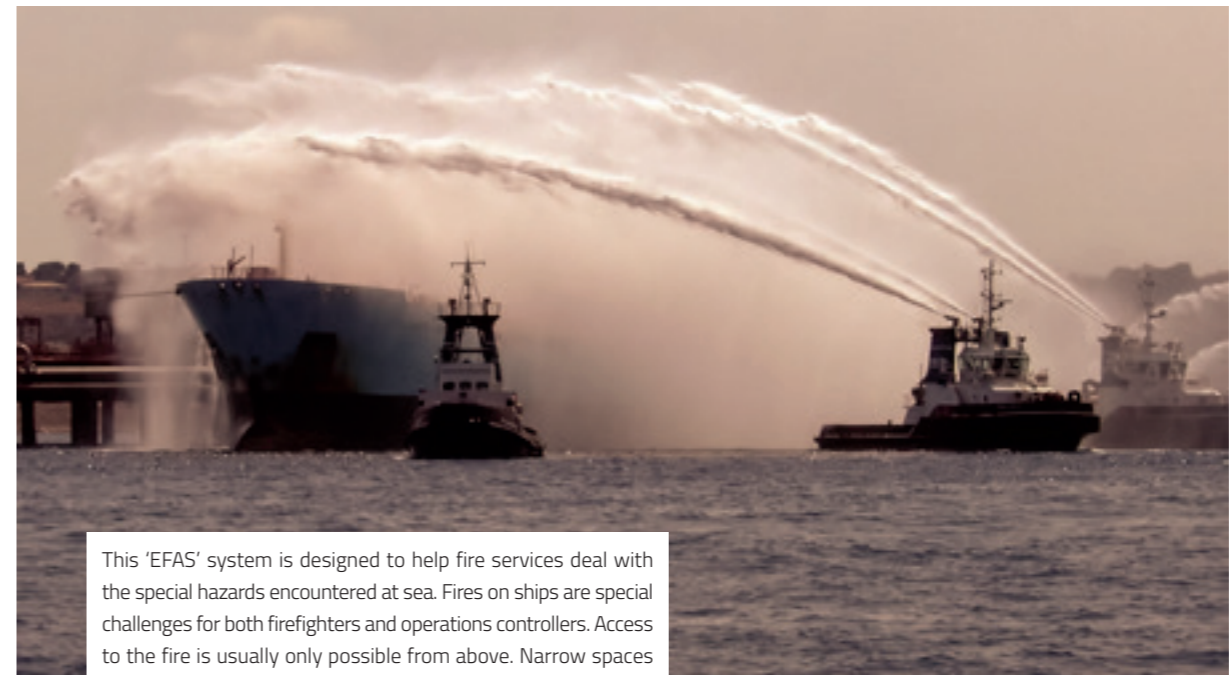
see  
flap  
p. 79



# FIRE-FIGHTING ON SHIPS

## Operations become safer - with 'EFAS'

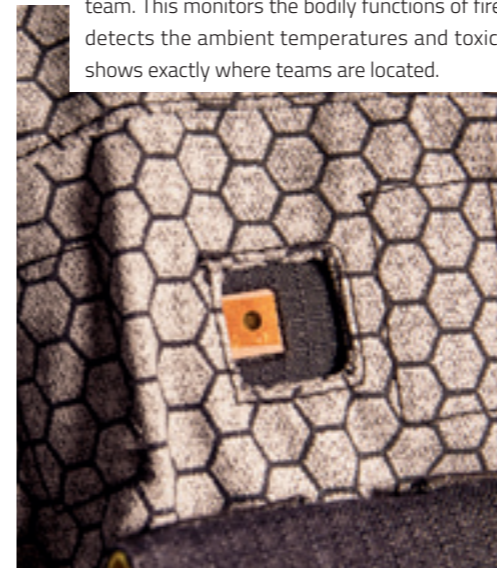
Special challenges require special measures. For this reason, S-GARD is participating in an innovative research project sponsored by the Federal Ministry of Education and Research (BMBF). The aim is to develop a deployment concept that optimizes the safety, efficiency and efficacy of firefighting operations onboard seagoing vessels.



This 'EFAS' system is designed to help fire services deal with the special hazards encountered at sea. Fires on ships are special challenges for both firefighters and operations controllers. Access to the fire is usually only possible from above. Narrow spaces between bulkheads and steep passageways make it difficult for the emergency services to reach the source of a fire. Even operations controllers may find it difficult to get an overview of the situation within a ship. Thick steel walls prevent radio transmission, so that it is near impossible to locate and make contact with firefighting teams. But all this is going to change.

### New sensors, more safety

Special radio systems are planned that will ensure maintenance of communications within the interior of ships in the future. A special sensor system has been developed by the research team. This monitors the bodily functions of firefighting teams, detects the ambient temperatures and toxic gas levels and shows exactly where teams are located.



### The protective suit rethought

As part of this research project S-GARD is developing a special protective suit and providing for the integration of the above technical systems within it. It is even necessary to consider the fit of the suit. Because firefighters have to advance through rising smoke to get to a fire, the opportunities for it to penetrate the suit must be minimized. The result is a streamlined, heat-reflecting full-body suit that allows full mobility of the wearer.





# HERO SERIES

## The convincing classic

This all-rounder series fulfills all common safety standards and offers all of the usual practical detail features in premium quality – plus a few extras.

EN 469:2005 Cl. 2

Optional DTS/IRS  
rescue system



Holder for an  
angle-head flashlight



black-blue  
without DTS

Width adjustment



black-blue  
with DTS

PRX9000 shoulder protectors

Napoleon bag

Elbow protectors

Reinforced cuff edges

Knitted cuffs with  
ITC system

see  
flap  
p. 79

## HERO COAT

- MOVE+ ease of movement with High Reach sleeve design
- PRX9000 technology in the shoulder area
- IRS-ready: DTS pocket, tunnel, tool loop on left (optional)
- Two chest pockets, height-adjustable and radio-compatible
- Reinforced/extended grips on front pockets and adjusting elements
- 3M 9687 Tripletrim reflective strips with quadruple seams
- High-visibility vest exemption

### Material variants:

DuPont™ Nomex® Tough / AIRLOCK® | black-blue with/without DTS

Nomex® NXT / AIRLOCK® | black-blue with DTS

EN 469:2005 Cl. 2

Waist size adjustment 

COMFORTABLE, RELIABLE  
FIT WITH EVERYTHING  
IN REACH



Bellows pocket with knife pocket

Waist size adjustment

Padded knee area with aramid fleece

Reinforced cuff edges and heel cutout at the bottom of the pre-shaped leg seam

black-blue

**HERO ATTACK PANTS**

- Integrated comfort suspender system
- MOVE+ ease of movement
- PRX9000 technology on rear flap
- Access gusset and side placket
- Reinforced/extended grips on cargo pockets and adjusting elements
- Two openings with pocket pouches
- High-visibility vest exemption in combination with jacket

**Material variants:**

DuPont™ Nomex® Tough / AIRLOCK® | black-blue  
Nomex® NXT / AIRLOCK® | black-blue



# DETAILS

**Small difference – ingenious solution**

Special features such as warning vest exemption, shoulder protectors, knitted cuffs, Tetra system and maintenance-free suspenders mean you can rely on us when it comes to protection, comfort and easy repair.

- 1 Flashlight holder
- 2 Loop fabric for emblems
- 3 Width adjustment
- 4 Storage pocket for IRS
- 5 PRX9000 shoulder protectors
- 6 Extended back section
- 7 MOVE+

## IRS QLOCK

- Rescue and restraint sling pursuant to EN 358, EN 1498-A
- QLock quick-lock system
- Fastener (self-belay sling)
- Width: 8 cm
- Available sizes: XS–3XL (use your jacket size as a guide)
- Snap hook and fastener not required

## IRS

- Rescue and restraint sling pursuant to EN 358, EN 1498-A
- Width: 8 cm
- Available sizes: XS–3XL (use your jacket size as a guide)



## HEART LIGHT SNAP HOOK FOR IRS

- With a Trilock closure



## FASTENER FOR IRS

- Self-belay sling

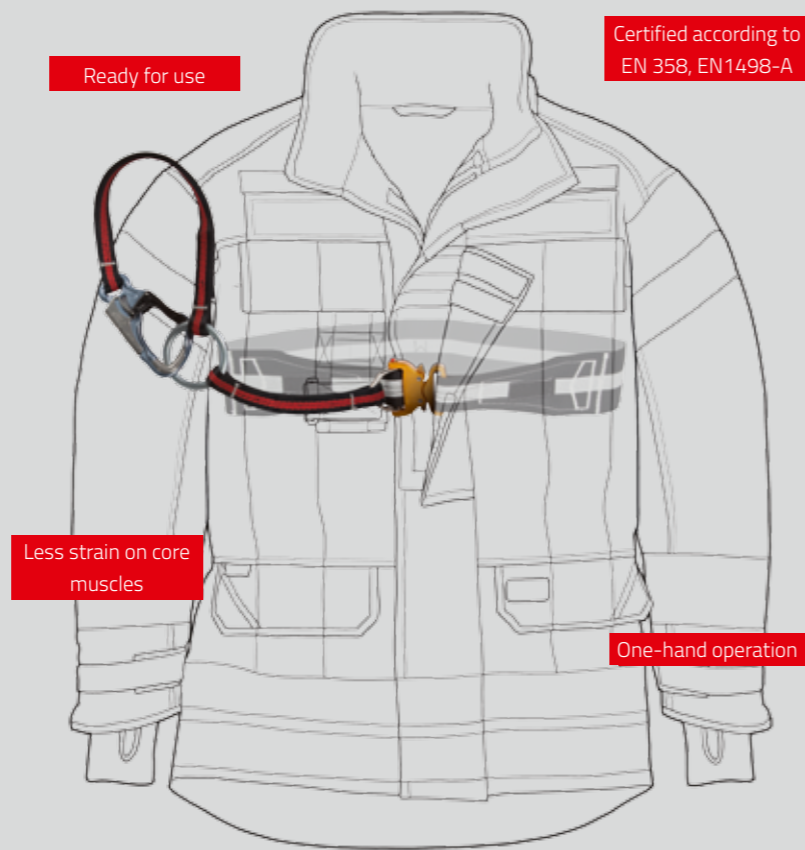


## PULL-THROUGH AID (DUMMY)

- Fabric: 190 g/m<sup>2</sup> 100% cotton FR



## Better than any standard



### Areas of use

- Support and restraint
- Self-rescue
- Rescuing people
- Raising and lowering

### Advantages

- Quickly ready for use with integrated protection
- Relieves the core muscles and prevents back injury
- Safe even if you lose consciousness
- Lightweight design that preserves the membrane
- Improves air circulation and breathing activity
- No snagging on building elements or in the vehicle

### Use

The intended use is described in, among others, the German documents FWDV 1 "Grundtätigkeiten – Lösch- und Hilfeleistungseinsatz" and BGI/GUV-I8651 "Sicherheit im Feuerwehrdienst".



# DTS/IRS RESCUE SYSTEM

You are deployed on a slippery incline or are standing on a ladder. Together with a specialist in rope protection we developed the DTS/IRS rescue system to make it easier for you to rescue others or secure yourself. The major advantage for you is that the integrated rescue and restraint sling, or IRS for short, is an integrated part of the firefighter's coat and therefore always ready for use when you need it. Simply open the storage pocket (DTS) to pull out the fastener. And you can rely on its practical handling if you should ever be in danger and need rescuing.

The DTS/IRS system is an integrated feature of jackets from the ULTIMATE, TITAN, HUNTER and SWISSGUARD series and also optional for the HERO coats.

EN 469:2005 Cl. 2

ITC System



Ergonomic collar

Shoulder protectors

Height-adjustable radio pocket

Snap-hook loop

Reinforced cuff edges

Holder for an angle-head flashlight

black-blue



gold

### ADVANCE PROGRESS COAT

- Two chest pockets, height-adjustable and radio-compatible
- Padded shoulder area with aramid fleece
- Knitted cuffs with ITC system
- 3M 9687 Tripletrim reflective strips with quadruple seams
- Extended back section
- High-visibility vest exemption

#### Material variants:

- DuPont™ Nomex® Tough / Fireblocker | black-blue
- DuPont™ Nomex® NXT / Fireblocker | gold

## LIGHTWEIGHT LAYER CONSTRUCTION, SAFE AND RELIABLE FEATURES



gold

### ADVANCE PROGRESS PANTS

- Integrated comfort suspender system
- MOVE+ ease of movement
- Two openings with pocket pouches
- Reinforced leg cuff edges
- High-visibility vest exemption in combination with jacket

#### Material variants:

- DuPont™ Nomex® Tough / Fireblocker | black-blue
- DuPont™ Nomex® NXT / Fireblocker | gold



EN 469:2005 Cl. 2

Leg width adjustment

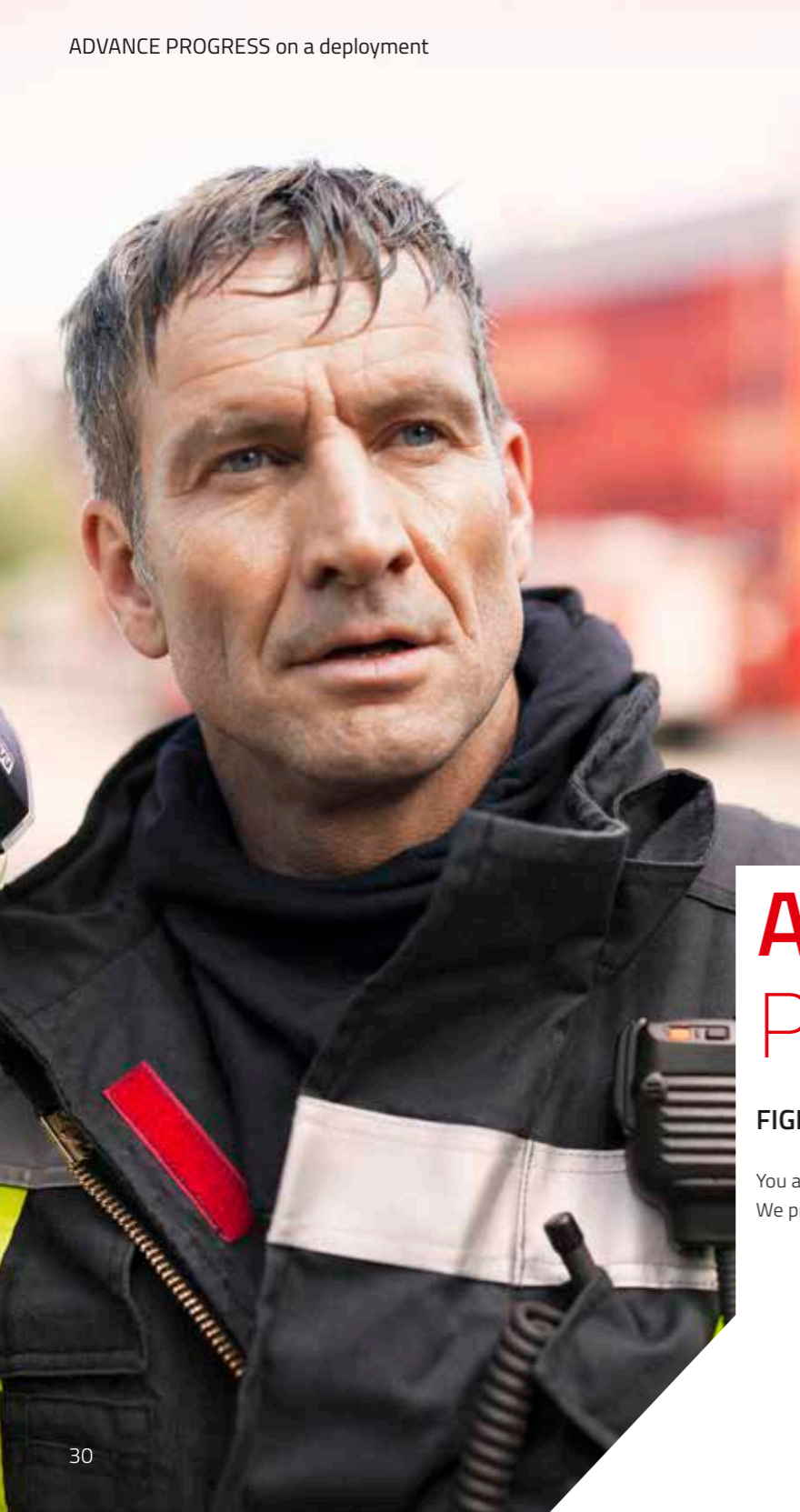
Kidney protection

Padded knee area with aramid fleece

Leg width adjustment

black-blue

see flap p. 79



# ADVANCE PROGRESS

## FIGHTING AGAINST FATIGUE

You are exposed to flames and high temperatures in your work. We protect you from heat stress.

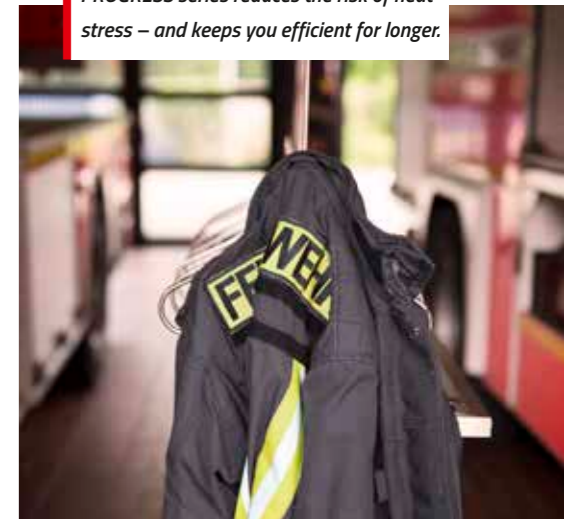
If you compare the current hazard analyses of fire services around the world with the results of previous years you will notice that the number of burns and scalds is on the decline. The reason for this is that protective clothing now affords increasing amounts of insulation and can withstand ever higher temperatures. However, this goes hand in hand with a significant increase in strain caused by heat stress.

Rather than burns, the biggest risk faced by firefighters is circulatory collapse. The causes are overheating and exhaustion. This is exactly our starting point for the development of the ADVANCE PROGRESS series: We decided to opt for an especially lightweight layer design for the jackets and pants so that you are exposed to as little thermal stress as possible. Thanks to the low weight, wear comfort is significantly improved and the body can dissipate heat more rapidly because we use a hard-wearing material blend as an outer layer.

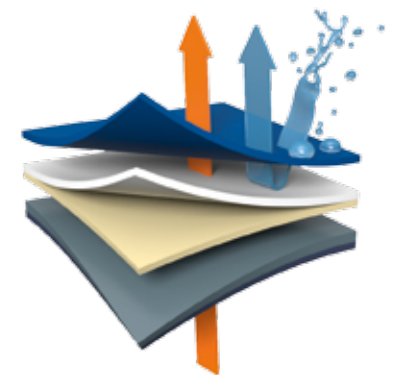
### Lightweight layers with high-level protection

Simultaneously, the clothing affords you reliable protection from flames, heat, contamination and weather conditions. That is why we use a resilient material mix for the outer fabric. The membrane in the core layer makes the coat and pants impermeable to firefighting water or rain. In addition, the insulating lining protects the wearer against hazardous contaminants.

*The lightweight layer design of ADVANCE PROGRESS series reduces the risk of heat stress – and keeps you efficient for longer.*



Statistics in coming years will show whether and to what extent new product developments reduce the risk of fatigue and exhaustion. We at S-GARD have taken up the challenge.





EN 469:2005 Cl. 2

EN 469:2005 Cl. 2

HIGH-VIS



Knee protectors



Ergonomically shaped collar

Holder for an angle-head flashlight

Knitted cuffs with ITC system

black-blue

HIGH QUALITY OF WORK-MANSHIP FULFILLS EVERY DEMAND IN DAILY SERVICE



Knife pocket

Padded knee area with aramid fleece

black-blue

**BASIC PLUS COAT NEW**

- 3M 9687 Tripletrim reflective strips with quadruple seams
- High-visibility vest exemption

**Material variants:**  
DuPont™ Nomex® Tough / Sigmatex | black-blue

**BASIC PLUS PANTS NEW**

- Detachable suspenders
- MOVE+ ease of movement
- Two openings without pocket pouches
- High-visibility vest exemption in combination with jacket

**Material variants:**  
DuPont™ Nomex® Tough / Sigmatex | black-blue



Winner of the DuPont™  
Nomex® Innovation Award

# DYNAMATE SERIES NEW

## Sometimes less is more

When selecting the correct protective clothing, it's about more than just the material composition. While one team might go for many extras and details another prefers it kept simple without too many bells and whistles. Increasingly, suits must be as light as possible without impairment of quality and level of protection. To meet these special requirements, we've developed the DYNAMATE series.

## AS LITTLE AS POSSIBLE, BUT AS MUCH AS NECESSARY

PRX9000  
technology in the  
shoulder area  
at the outside

Holder for  
an angle-  
head  
flashlight



Move+3D ease of  
movement

Radio pocket

Segmented  
reflective strips

Knitted cuffs  
with ITC system

Optional extras:  
▪ Belt openings for your seat belt  
▪ Drag and Rescue Device (DRD)

Padded knee area  
with PRX9000  
technology



Detachable  
comfort  
suspenders

The products in our DYNAMATE series are supplied with only the most essential details, making the collection particularly light. The low weight in combination with a newly developed, comfortable cut ensure plenty of freedom of movement. Perfect when you've got to move fast.

Even if the DYNAMATE series may look basic, it incorporates the highest caliber of innovation. For the first time, we've made all openings, at the neck, sleeves, waistband and pant legs, impervious to particle access with elastic bands or a closure made of Nomex® Nano Flex-Material supplied by

DuPont™. This dense functional material is very heat- and flame-resistant, highly elastic and breathable. The cuffs prevent smoke gas particles getting into the suit and being absorbed by the skin.



# SOOT PARTICLES ON THE SKIN

## An underestimated risk to health

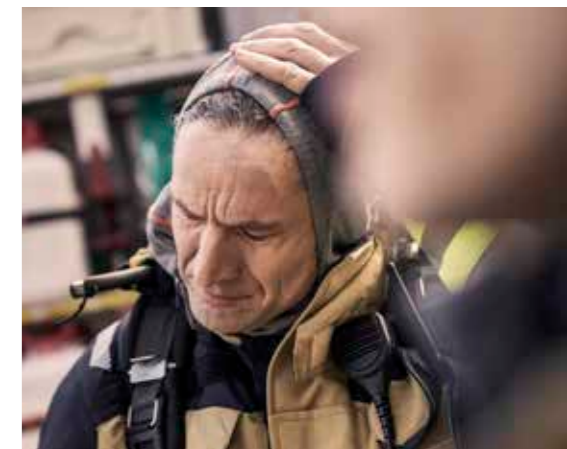
It has mainly been necessary to date to ensure that fire protection clothing protects the wearer on exposure to extreme thermal conditions. In the future, it will also have to provide reliable physical barriers that prevent soot particles reaching firefighting professionals. Why is this?

Various toxic substances are released during fires. Formaldehyde, benzene and polycyclic aromatic hydrocarbons (PAHs) form when wood, plastic, furniture, electrical devices and construction materials burn. During operations, breathing protection masks reliably prevent toxic particles entering the respiratory tract; however, more and more studies are demonstrated that there is a connection between firefighting and an increased risk of cancer in firefighting professionals.

## Absorption of soot particles

The apparent cause seems easy to identify. When taking off their protective clothing, the micro-particles on the surface of a suit are again dispersed and inhaled by the now unprotected firefighters. This can be prevented by better operational hygiene.

But there is also another previously underestimated factor that is responsible – absorption by the skin of soot particles. Through the smallest openings in clothing – in the head area, the sleeves, waistband and pant legs – particles can enter and be deposited unnoticed on the skin during firefighting. They accumulate in the pores that have become enlarged on exposure to heat and enter the body.



## Developments to protective equipment

It is now no longer enough to ensure that protective clothing is adequately heat-resistant. It has become necessary to improve existing equipment to make sure the skin is protected against toxic particles. Hence, in our DYNAMATE protective suit and our NANO FLAME PROTECTION HOOD, we've used Nomex® Nano Flex material supplied by DuPont™. This extremely dense but lightweight functional material reliably keeps soot particles from your skin.

## Operational hygiene

Soot particles aren't just a danger during operations. Even afterwards, the risk to you should not be underestimated. Initial cleaning of your suit, shoes and helmet at the site of deployment is thus essential. It reduces the amount of soot that you could carry with you into the station. Careful separation also reduces transportation and thus the potential absorption of particles that are damaging to health. If you are going straight home after a deployment and not back to the station, never take the contaminated clothing with you. You will find more information on the correct care and cleaning of protective firefighting clothing on page 6.

On request, we can also introduce the nano-particle barrier into other products in our range. Please contact us!



«In an emergency, what counts is saving lives. I put my trust in my team and in S-GARD.»



**FURTHER INFORMATION IS AVAILABLE AT**  
s-gard.com

## S-GARD CLOTHING FOR TECHNICAL RESCUE AND EVERYDAY WORK

	<b>SARTEC</b> Page 40	<b>RESPONER</b> Page 44	<b>ENDURANCE</b> Page 48	<b>GARANT</b> Page 50	<b>PROTEAM</b> Page 52	<b>FIRSTGARD FR</b> Page 54	<b>RANGER 2.0</b> Page 56
<b>STANDARD</b>	EN 469 Cl. 1 EN ISO 11612:2009 EN 15614:2007	>>	>>	>>	>>	>>	>>
<b>MATERIAL</b>	DuPont™ Nomex® RSK / Modacryl cotton / Flameliner DuPont™ Nomex® RSK / Flameliner Nomex® Tough / Flameliner Nomex®-Viscose 300 g Nomex®-Viscose 265 g Nomex®-Viscose Elastane Nomex® / Kevlar® / New wool / Lenzing Kermel®-Viscose	>>	>>	>>	>>	>>	>>
<b>DETAILS</b>	With or without reflective striping (HIGH-VIS) Jacket with shoulder tunnels Jacket with side pockets BIP-Pants available Jacket and pants can be zipped together	>>	>>	>>	>>	Jacket >>	>>



Your personal S-GARD consultant is there for you every day from 8 a.m to 4 p.m. (Central European Time)

**+49-2425-9909-0**

# SARTEC SERIES

## Performance-enhancing protection

The new ergonomic design with special stretch zones and intelligent features gives you maximum freedom of movement during technical assistance assignments. It is one of the basic prerequisites for lasting performance.

EN 469:2005 Cl. 1

MOVE+3D



Double adjustment radio pockets (MAXFLEX)

Reinforced/extended grips on front pockets and adjusting elements



luminous yellow black-blue

## SARTEC COAT

- MOVE+3D ease of movement with High Reach sleeve design
- Ergonomically angled S-Pocket design
- Two cargo pockets with snap-hook loops and Load Control System
- Tool pockets on both upper arms
- Body Language reflective strips
- Napoleon bag
- Waterproof multigrip front closure with tab
- Adjusters reinforced with reflective material and operable with gloves on
- Luminous yellow black-blue variant with special EN ISO 20471 Standard Cl. 2



Helmet-compatible, waterproof hood

MOVE+3D design

Tool pocket

Holder for an angle-head flashlight

Stretch zone around the elbows

Raised front section

Knitted cuffs with ITC system

red black-blue

### Material variants:

- DuPont™ Nomex® RSK / Modacryl cotton / Flameliner | luminous yellow black-blue
- DuPont™ Nomex® RSK / Flameliner | red black-blue

EN 469:2005 Cl. 1

Stretch zone with protectors around the knee

## ATHLETIC DESIGN FOR MAXIMUM FLEXIBILITY AT WORK



luminous yellow black-blue

### SARTEC PANTS

- Detachable comfort suspenders
- Two cargo pockets with Load Control system
- Ergonomically angled S-Pocket design
- Boot lock hook, joins pants and boots
- MOVE+3D freedom of movement with Leg Mobility design and preformed sections
- Reinforced/extended grips on cargo pockets and adjusting elements
- Reinforced inner leg cuff edges
- Adjusters reinforced with reflective material and operable with gloves on
- Luminous yellow black-blue variant with special EN ISO 20471 Cl. 1

#### Material variants:

DuPont™ Nomex® RSK / Modacryl cotton / Flameliner | luminous yellow black-blue

DuPont™ Nomex® RSK / Flameliner | red black-blue



red black-blue

Removable comfort suspenders

Stretch zone with protectors around the knee

Reinforced inner leg

Boot lock hooks



# DETAILS

## Flexible refinements – better control

Pockets you can flexibly adjust and access more quickly – that is standard for SARTEC. So are the practical grip tabs that make opening and closing zips easy even when you're wearing gloves. And no matter where your rescue assignment is, knee and elbow reinforcements protect against abrasion and give you optimum maneuverability.

- 1 Double adjustment radio pocket (MAXFLEX)
- 2 Raised front section
- 3 MOVE+3D design
- 4 Stretch zone around the elbows
- 5 Removable suspenders
- 6 Gusset insert for maneuverability

EN 469:2005 Cl. 1

Two-ply design



Height-adjustable radio pocket

black-blue

### RESPONER COAT

- Two chest pockets, height-adjustable and radio-compatible on the left
- Knitted cuffs with ITC system
- 3M 9687 Tripletrim reflective strips with quadruple seams
- Pleats in back for greater ease of movement
- High-visibility vest exemption

Material variants:

DuPont™ Nomex® Tough / Flamliner | black-blue

EN 469:2005 Cl. 1

Two-ply design



ATTACK TYPE A,  
black-blue

FOR TECHNICAL ASSISTANCE –  
ROBUST, LIGHTWEIGHT AND  
INTELLIGENTLY DETAILED

### ATTACK TYP A PANTS

- Integrated comfort suspender system
- Access gusset with cover strip
- Reinforced cuff edges and heel cutout at the bottom of the pre-shaped leg seam
- Padded knee area with aramid fleece
- Openings without pocket pouches
- High-visibility vest exemption in combination with jacket

Material variants:

Nomex® Tough / Flamliner | black-blue

### RESCUE LIGHT PANTS

- Protectors around the knee
- Preshaped leg seam with heel cut-out

Material variants:

Nomex® Comfort | black-blue

EN ISO 11612:2009

Knee protectors



RESCUE LIGHT,  
black-blue

# SAFETY TOUR



## SAFETYTOUR ON THE GO FOR MORE SAFETY

In your job, you constantly encounter new situations and have to learn new things. Technical requirements are becoming more challenging. Factors such as aggressive behavior and intrusive onlookers are increasingly becoming problems for your team. To ensure that you always stay on top of things and that your operations are safer, we offer our Safetytour, a state-of-the-art training course designed for firefighters, emergency and technical assistant services.

Our Safetytour can be adapted to your specific needs and is more than just a straightforward training course. There are individual team workshops, dialog sessions especially for senior officers and our big annual 'Best of' event, combining education tailored to current needs and diverse teaching methods. Regardless of whether you are learning something new or simply want to brush up on your existing knowledge - eminent firefighting specialists from all over Germany will be there to provide you with the benefit of their combined professional insights. Together, you'll look at highly topical aspects of firefighting in the areas of working methods, communication and team leadership.

Here is an overview of the various features of our Safetytour:



### Workshops on-site at your premises

In the individually-tailored workshops, you'll learn valuable know-how with regard to theory and practice from experienced firefighters. Workshops are available on a year-round basis on 40 different subjects, ranging from CBRN-related operations through team development to conflict management. And so you don't have to invest your valuable time and energy in organization and travel; the trainers will hold the workshops in your station or a location nearby and these will take into account your routine operations, your level of knowledge and your available equipment.

### 'Dialog' - the recipe for success

If you manage employees and want to strengthen your team, you need courage, empathy and plenty of professional knowledge. In dialog sessions designed for senior officers that are held across Germany, you will experience lectures by eminent specialists on a variety of topical themes and unusual deployments. You'll extend your knowledge, profit from new technologies and procedures and you'll receive practical tips and tricks for leadership. There is always a focus on the close interaction with other senior firefighting officers.



### Our big annual event 'Best of'

So that everything runs like clockwork in the case of an emergency, you can experience the best of the Safetytour features in the annual 'Best of' sessions. While you master challenges in areas such as breathing protection and hazardous materials in the various team training sessions, you'll also experience an exciting combination of theory and practice in the workshops. In the dialog sessions, you'll be able to hear specialists talk on red-hot topics. There's something for everyone, irrespective of needs and qualifications, at our 'Best of'. And the best thing is that you can put together your event program according to your own wishes.



UNLIMITED FREEDOM OF MOVEMENT  
IN ANY SITUATION

EN ISO 11612:2009

As HIGH-VIS



# ENDURANCE SERIES

## Flame protection meets stretch

In daily service, you want clothing that is not only safe, but also flexible. Our ENDURANCE series therefore consists of the newly developed, elastic DuPont™ Nomex® material. This unites high flame protection with comfortable stretch for the first time - without a membrane. The body-hugging cut and many details give the daily service clothing its very modern look.



black-blue

### ENDURANCE DUTY JACKET **NEW**

- Two chest pockets with the left pocket designed as a height-adjustable radio pocket
- Two side pockets with snap-hook loops
- Shorter front and longer back section
- Reinforced elbows
- Adjustable sleeve width
- Optional without reflective striping

#### Material variants:

Nomex®-Viscose Elastane | black-blue



black-blue

### ENDURANCE DUTY PANTS **NEW**

- Zipped back pocket
- 2 side pockets, right with tool pocket, left with zippered small pocket
- Two thigh pockets with pen pockets
- With extended waistband
- Optional without reflective striping

#### Material variants:

Nomex®-Viscose Elastane | black-blue

EN ISO 11612:2009  
A1, A2, B1, C1

As HIGH-VIS



black-blue

black-blue with  
reflective striping

### GARANT DUTY JACKET

- Shoulder flaps and tunnels
- Two chest pockets; the left pocket is designed as a height-adjustable radio pocket
- Two side pockets; the left pocket has a snap hook loop
- Two zipped inner pockets
- Adjustable sleeve width
- Inspection opening
- Optionally without reflex fixtures and side pockets

#### Material variants:

DuPont™ Nomex®-Viscose 300 g | black-blue  
DuPont™ Nomex®-Viscose 300 g | black-blue with reflective striping

EXTRA-ROBUST AND DURABLE – FOR EVEN  
MORE SAFETY AT WORK

EN ISO 11612:2009  
A1, A2, B1, C1

As HIGH-VIS



black-blue



black-blue  
BIP-Pants

black-blue with  
reflective striping

### GARANT HIGH VIS DUTY PANTS

- Two back pockets
- Two side and bellows pockets on each side
- HIGH-VIS additionally with reinforced knees
- Optional without reflective features

#### Material variants:

DuPont™ Nomex®-Viscose 300 g | black-blue  
DuPont™ Nomex®-Viscose 300 g | black-blue with reflective striping  
DuPont™ Nomex®-Viscose 300 g | black-blue BIP-Pants with reflective striping

EN ISO 11612:2009  
A1, A2, B1, C1

Also as HIGH-VIS 

EN ISO 11612:2009  
A1, A2, B1, C1

Also as HIGH-VIS 

## CLASSIC WORK CLOTHES – WITH OPTIONAL REFLECTIVE STRIPING



black-blue



black-blue with  
reflective striping

### PROTEAM DUTY JACKET

- Two chest pockets; the left pocket is designed as a height-adjustable radio pocket
- Two zipped inner pockets
- Adjustable sleeve width
- Inspection opening
- Optional reflective features

**Material variants:**

KERMEL®-Viscose | black-blue  
KERMEL®-Viscose | black-blue with reflective striping



black-blue



black-blue with  
reflective striping

### PROTEAM DUTY PANTS

- Two back pockets
- Two side and bellows pockets on each side
- Optional reflective features

**Material variants:**

KERMEL®-Viscose | black-blue  
KERMEL®-Viscose | black-blue with reflective striping

EN ISO 11612:2009  
A1, A2, B1, C1

Blouson cut



black-blue

### FIRSTGARD FR DUTY JACKET

- Two superimposed breast pockets
- Two side pockets
- Additional radio pocket accessible from the outside
- Inspection opening

**Material variants:**

DuPont™ Nomex®-Viscose 265 g | black-blue  
KERMEL®-Viscose | black-blue (for combination with PROTEAM duty pants, p. 53)

## THE MOST FLEXIBLE CLOTHING FOR DAYTIME DUTY

EN ISO 11612:2009  
A1, A2, B1, C1

Pleats



black-blue

### FIRSTGARD FR DUTY PANTS

- Two back pockets
- Two bellows pockets

**Material variants:**

DuPont™ Nomex®-Viscose 265 g | black-blue



Your personal S-GARD consultant is there for you every day from 8 a.m to 4 p.m. (Central European Time)

**+49-2425-9909-0**

Also ask us about our models for North Rhine Westphalia and Baden-Wuerttemberg

EN 15614:2007 A1

Wildland

High stand-up collar with chin protector

Tapered chest pocket with holder for angle-head flashlight

Flame-retardant front closure with Easy-Slide system

Segmented reflective strips

Adjustable sleeve width



yellow black-blue

**RANGER 2.0 COAT**

- Arms-up construction
- Napoleon bag
- Right inside pocket
- Stretch zones under the arms

- Shorter front and longer back section
- Breathable reinforcements
- Velcro fasteners

**Material variants:**

DuPont™ Nomex® / Kevlar® / New wool / Lenzing | yellow black-blue

Adjustable radio pocket (MAXFLEX)

TWO-PIECE OR OVERALLS?  
RANGER 2.0 CAN DO BOTH

EN 15614:2007 A1

Connector zip

Half-height elasticated waistband elevated in the back

**RANGER 2.0 ELASTIC WAISTBAND PANTS**

- Six belt loops
- Zipped back pocket
- Two zipped side pockets
- Two thigh pockets with cargo bellows
- Stretch zones in knee, seat and crotch areas
- Breathable reinforcements
- Velcro fasteners

**Material variants:**

Nomex® / Kevlar® / New wool / Lenzing | yellow black-blue



yellow black-blue

Premolded knee with knee pocket for knee pad

Segmented reflective strips

Boot-lock hook

Adjustable hem



# NANO- HOOD

## Particle protection for head and neck

Even though you protect your body during operations, smoke gas particles generated by fires can penetrate the smallest openings and accumulate on your skin. Our new NANO FLAME PROTECTION HOOD with DuPont™ Nomex® nano-technology reliably prevents this. S-GARD managing director Bruno Schmitz explains why the hood will make your operations even safer.



### *Mr. Schmitz, why does the head and neck area need special protection?*

"It can get very hot in the head region during firefighting. The pores open up, sweat collects on the neck and the absorption capacity of the skin is increased. Helmet and mask protect a large part of the head. The rest is usually protected by a flame protection hood."

### *There are already flame protection hoods on the market. What makes your nano-hood different to these?*

"Knitted material is employed in most flame protection hoods. This is soft, comfortable and very flexible. In contrast to the rest of the protective clothing, these hoods normally do not have a membrane. So they do not provide reliable particle protection in the head and neck area. So we've developed the NANO FLAME PROTECTION HOOD. It serves as a reliable barrier against particles and covers the unprotected areas very reliably."

### *What makes the Nomex® Nano Flex material so unique?*

"This dense functional material is very heat- and flame-resistant. At the same time, it is very lightweight, elastic and breathable. So we were able to create the perfect supplement to the firefighting suit, helmet and mask – a hood that reliably protects the wearer against smoke gas particles and is still extremely comfortable."

### *For what groups is the NANO FLAME PROTECTION HOOD intended?*

"With our NANO FLAME PROTECTION HOOD, we've developed a comfortable protective product for the whole team. The hood offers quick, easy yet very effective protection against particles and should be a component of all protective equipment. It is the ideal complement to the protective gear worn by all operational personnel."

## NANO FLAME PROTECTION HOOD **NEW**

- DIN EN 13911:2017-conform
- Material: Nomex®-Viscose / Nano Flex





# WINDSTOPPER® INSTEAD OF A SWEATER

## The new trend in firefighting apparel

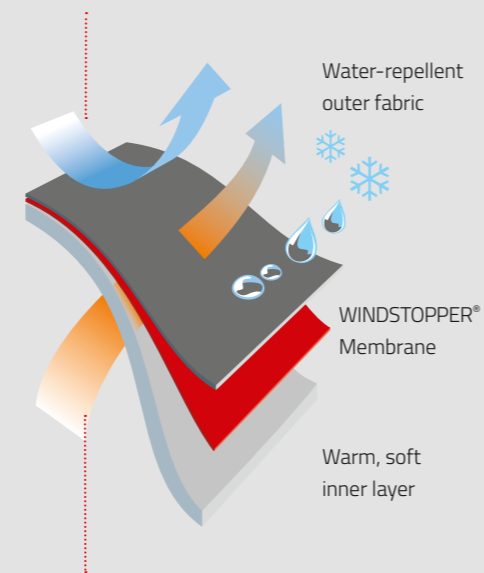
It is important that your duty clothing is light and easy to move in during your strenuous daily work. And it must also adequately protect you. Our windproof WINDSTOPPER® OFFICER jacket meets all these needs. It protects you from cold and moisture and, at the same time, it is highly breathable. Its special structure makes this possible.

The special material used for our WINDSTOPPER® jacket consists of three layers: a water-repellent outer fabric, a windproof membrane and a warm, soft layer on the inside. So this lightweight jacket will regulate your body temperature and remain comfortable to wear in any situation, regardless of how adverse the weather conditions or how strenuous your work may be.

The OFFICER is equipped with everything you need for your routine duties, including numerous pockets, molded sleeves and a stand-up collar. The practical details and excellent material properties mean that WINDSTOPPER® products have far surpassed traditional sweaters in recent years.

### Absolutely windproof

Maintains body heat and protects the wearer from the cold in poor weather conditions



### Maximum breathability

Prevents overheating and moisture buildup because water vapor can escape freely



Absolutely windproof

Highly breathable



black-blue

### OFFICER WINDSTOPPER®

- Shoulder flaps and tunnels
- Sleeve pocket with flap and pen slot
- Two breast and two side pockets with zips
- Pre-formed sleeves
- Extended back section
- Stand-up collar

#### Material variants:

WINDSTOPPER® Laminate | black-blue



EN 343:2010  
Class 3/3

Three-ply design



## PROTECTED IN ANY WEATHER



Hood

Removable zipped  
quilted lining

black-blue

### GARDIAN WEATHER PROTECTION JACKET

- Collar with integrated hood
- Shoulder flaps and tunnels
- Two side pockets with zips
- Left sleeve pocket
- Inspection opening

Material variants:

Polyester-cotton / Sigmatex | black-blue

Reliable weather protection

Three-ply design



## COMFORTABLE FIT AND COMPREHENSIVE PROTECTION



Angled side pocket

black-blue

### MAJOR SOFTSHELL JACKET

- Cover strip with push studs
- Shoulder tunnel and flaps
- Two breast pockets with flaps and push studs
- Two angled side pockets with zips
- Adjustable sleeve cuff

Material variants:

Three-ply laminate polyester, polyurethane | black-blue



Pleasantly warming

Numerous pockets

SO COLD DOESN'T  
STAND A CHANCE



**COMMAND FLEECE JACKET**

- Shoulder flaps and tunnels
- Breast and sleeve pocket with pen pocket
- Two side pockets with zips

**Material variants:**  
Micro-Fleece | dark-blue

Windproof

Three-ply design



ONE JACKET, MANY FUNCTIONS



**STORMGARD FLEECE AND WEATHER RESISTANT JACKET NEW**

- Stand-up collar
- Shoulder flaps and tunnels
- Stable front closure with windproof liner and chin protector
- 2 chest pockets, right as a Napoleon pocket
- Two zipped side pockets
- Reinforced shoulders, elbows, forearms and sides
- Elastic sleeve cuffs and draw-cord in the hem
- With reflective piping

**Material variants:**  
Micro-Fleece | steel blue



# HEIGHT RESCUE

## High protection with full flexibility

Your work in high-elevation or air rescue operations is strenuous and quite often dangerous. You are always on the move, sweating – and the wind is unrelenting. To make sure you are always at your most efficient during operations we developed SKYGARD and SKYLITE rescue clothing that is specially adapted to the demands of height rescues.

No matter whether you are travelling in a rescue helicopter, abseiling from a cliff face, or working in a rope rescue unit or an offshore installation – your work clothing needs to be light and fit well and protect you from wind and rain as well as from injury. And it needs to be extremely durable. That is why we incorporate special materials like resilient fabric in the SKYLITE series. The advantage: It dries quickly and is windproof but your sweat escapes quickly to the outside. The weatherproof SKYGARD series features a GORE® membrane to afford additional protection from rain and snow.



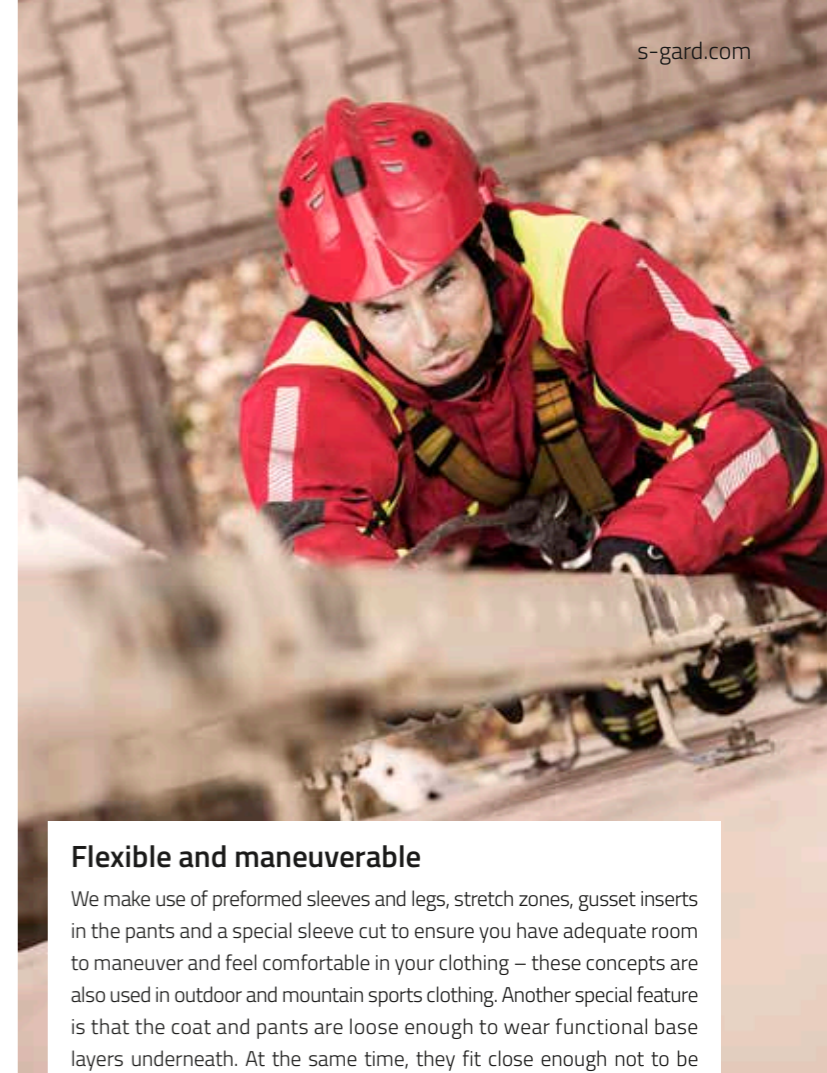
*MAXFLEX pockets are arranged so you can reach them when wearing a safety belt – even with gloves.*

## Flexible and maneuverable

We make use of preformed sleeves and legs, stretch zones, gusset inserts in the pants and a special sleeve cut to ensure you have adequate room to maneuver and feel comfortable in your clothing – these concepts are also used in outdoor and mountain sports clothing. Another special feature is that the coat and pants are loose enough to wear functional base layers underneath. At the same time, they fit close enough not to be disruptive when climbing.

## Cleverly designed for safety – easy to use

All pockets are easily accessible when you are wearing a safety belt – even with gloves. That is ensured by zips with large pulls, one-hand pull cords and tabs. These zips allow you to open the vents underneath the arms and on the thighs. There is also an adjustable hood suitable for wearing with a helmet that provides for a clear view – particularly good when the weather is stormy. Reflective striping for better visibility rounds off the features of the SKYGARD and SKYLITE series.



EN 343:2010 Cl. 3/3

Water-repellent zips



red-luminous yellow

### SKYGARD COAT

- Waterproof, helmet-compatible storm hood with peak, visual field and volume adjustment integrated in the stand-up collar
- Four waterproof cargo pockets on the sleeve with integrated fastening loops
- Two angled breast pockets with optimized access angle
- Ventilation zips underneath the arms
- Water protection gaiters on the sleeve seam
- Contoured reflective striping

**Material variants:**

GORE-TEX two-ply laminate | red-luminous yellow

## FULLY WEATHERPROOF HEIGHT RESCUE CLOTHING FOR THE MOST DIFFICULT OPERATIONS



red-luminous yellow

### SKYGARD PANTS

- Internal connecting system for jacket and pants
- Elastic, removable Y-suspenders
- Knee pocket made of Kevlar® with PRX9000
- Two cargo pockets at calf height
- Water-protection gaiters on the leg seams
- Boot lock hooks in the seams

**Material variants:**

GORE-TEX two-ply laminate | red-luminous yellow

EN 343:2010 Cl. 3/3

Boot lock hooks



Wind-repellent and climate regulation

Wind hood

Connection system

Boot lock hooks



red-luminous yellow

Ventilation zips

Cargo pocket with fastening loops

Helmet-compatible hood

Breast pocket

### SKYLITE COAT

- Stretch zones on back, sleeves and sides
- Hood with peak, visual field and volume adjustment integrated into the stand-up collar
- Ventilation zips
- Four cargo pockets on the sleeve with integrated fastening loops
- Two angled breast pockets

Material variants:

DURAGARD | red-luminous yellow

## HIGHLY FUNCTIONAL TWO-PART SUIT FOR HIGH-ALTITUDE OPERATIONS



red-luminous yellow

Connecting system for jacket and pants

Front slot pocket

Folding MAXFLEX cargo pocket

Leg vent

Cargo pocket at calf height

### SKYLITE PANTS

- Internal connecting system for jacket and pants
- Elastic, removable Y-suspenders
- Knee pocket made of Kevlar® with PRX9000
- Stretch zones on the sides, buttocks and knees
- Two front slot pockets
- Boot lock hooks in the seams

Material variants:

DURAGARD | red-luminous yellow

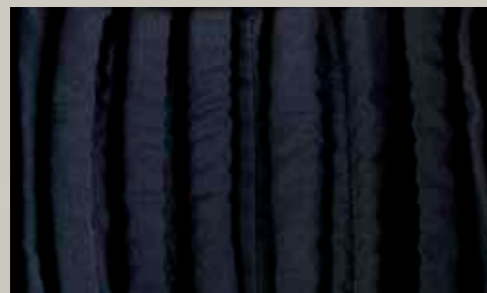


### S-GARD PLASTIC ZIPPERS

Fireproof and very light. Our plastic zippers are made of a fire-retardant special plastic with a fiberglass reinforcement. Compared to the metal versions, they are significantly lighter and do not heat up as much when exposed to flames and are also more resistant to wear during washing. An additional highlight is the fact that there is anti-slip grip for comfortable operation while wearing gloves.

### S-GARD PRX9000 PAD- DING ELEMENT

Comfort and relief: Padding makes sense in areas that support your breathing apparatus, for example. Integrated carefully into your clothing, PRX9000 elements relieve the pressure on strained shoulder and back areas while maintaining insulation. The individual pads of foamed, permanently elastic and flame-resistant special polymer material are arranged in a way that promotes the exchange of air between the back and chest areas, thereby increasing comfort.



### S-GARD MOVE+ / MOVE+3D DESIGN

Comfortable and flexible: The Move+ design in the shoulder and underarm areas ensures the coat fits comfortably and your upper body has adequate room to maneuver. The Move+3D cut features preformed, three-dimensional sections on the elbows, knees and collar as well as special wedge inserts in the lower sleeves of the coat and in the gusset area of the pants for a greatly improved fit. The 3D design enhances maneuverability during climbing and stretching movements and when you're performing overhead work.

### S-GARD KNITTED CUFF WITH ITC SYSTEM

Secure closure – perfect fit. S-GARD cuffs made of DuPont™ Nomex® special knitwear safely seal off your coat's sleeves. You can use the "Individual Thumb Control" (ITC) system to adjust the thumb opening to suit your hand size.



# TECHNOLOGY INNOVATIONS

**Developed for your comprehensive protection with loads of comfort**

We have developed special systems to ensure you have the best possible protection in extreme situations, that your clothing fits comfortably and that you have the necessary room to move.

**THIS IS ABOUT YOUR PROTECTION –  
WE ARE HERE FOR YOU IN PERSON.**

Your personal S-GARD consultant  
is there for you every day  
from 8 a.m to 4 p.m.  
(Central European Time)



**+49-2425-9909-0**



# FIRE SERVICE ACCESSORIES

Even more for your protection and your team

You can find an overview here of our fire service accessories that provide you additional protection from flames.

## IDENTIFICATION COLLAR

- Extremely fire-resistant
- Individually printable
- Optionally available with loop material for applying a back label
- Modacryl cotton
- Choose the size that matches your S-GARD jacket model



Available for all overcoat models



## NAME EMBLEMS

- Customized production
- Carrier material to match the clothing



## MULTIFUNCTION VEST

- Two microphone holders, two side and two radio pockets (right pocket with safety snap hook)
- Double front zip with quick-release buckles
- Side width adjuster with clamp buckles
- Fastening option for two back ID signs
- Modacryl cotton



We can customize your protective clothing with name badges and coats of arms on request. Our service staff will be pleased to advise you.

**FOR MORE INFORMATION PLEASE VISIT**  
s-gard.com

## BACK ID SIGNS

- 3M™ Scotchlite™, 38 x 8 cm, one-sided with hook and loop set
- Two-line ID signs and other formats are available



## FLAME PROTECTION HOOD

- EN 13911:2004
- Elastic band in visual field
- Extra-flat seams
- Interlock, KERMEL®-Viscose
- **With particle barrier:** You'll find information on the NANO FLAME PROTECTION HOOD made of DuPont™ Nomex® Nano Flex material see from page 58ff.



## EMBLEMS / SHOULDER INSIGNIA

- Customized designs (coats of arms, etc.)
- Includes fastening and sewing



## PROTECTIVE PONCHO

- Protects the compressed air breathing apparatus in heat box training
- Nomex® Tough



«I work hard every day to make sure you are fully protected when duty calls.»

## SERVICE BINDING IS BETTER

We are at your side to address your questions and concerns with regard to the selection, maintenance and repair of your protective clothing. We will also immediately provide you with fresh supplies if your own stock of protective clothing is low in an emergency.



### Friendly repair and service

From reflective striping to zips and the membrane – firefighting operations place heavy strain on your protective clothing and can even damage it. This is where our experienced repair service staff are at your side. They check your protective jackets and pants without delay and repair them professionally.

To ensure you get your service clothing back as soon as possible, we design and manufacture S-GARD protective clothing so that we can get it back into shape with little technical cost and effort. Our principle of “repair friendliness” saves you time and money.



**S-GARD**



### Care and maintenance

With the right care, you'll maintain the protective effect of your firefighting clothing and extend the wearing comfort and retain its appearance. We can help you with this through our various care seminars and accredited partner laundries.

You'll find information and tips about care and maintenance from page 6ff.

### Emergency supply

In the event of unforeseeable occurrences such as contaminations for which your protective clothing is inadequate, we will take care of ensuring a fast emergency supply of the protective clothing you need.

### Test run

Put the protective properties and comfort of our S-GARD service clothing to the test and get to know all the features and functions directly in deployment situations. We would be pleased to provide you with the latest model ranges for test purposes so you can see the properties of our clothing systems for yourself.

### Service close to you

You can find an overview of all our services and events on our website. It contains, for instance, detailed information on size tables as well as care and maintenance instructions. You can also download repair and return slips from our website free of charge.

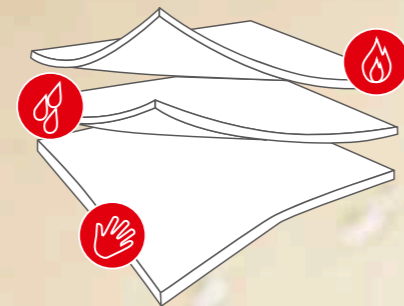
You can find detailed information relating to services and your contact partners at [s-gard.com/service](https://www.s-gard.com/service)



# MATERIALS AND TECHNOLOGIES

## Robust layers for challenging operations

The changing requirements of your job demand a great deal of your protective clothing. Here at S-GARD, we develop products that combine all the essential protective functions by incorporating the latest materials and different layer structures. Everywhere, at any time.



### The three layers

Our clothing typically consists of three layers. The **flame-resistant upper fabric** protects you and the layers underneath it from mechanical forces such as friction and is also highly tear-resistant.

A **moisture barrier** repels rain and firefighting water. Simultaneously, a breathable membrane ensures sweat is reliably transported away from the body to the outside.

Finally, the **lining** makes the clothing comfortable to wear.

These three layers work together to create a functional air cushion – the so-called thermal insulation layer that protects you from the severe heat of a fire. That's because air is a poor conductor of heat. By the way, the same principle is used when it comes to manufacturing winter clothing, just without the flame-proof materials.

We will be pleased to assist you in person in your search for the layer structure that is right for you.

Take a look inside: our technologies at a glance



## Why is this subject so important?

# 23 x

faster speed at which heat and cold can travel to the body through wet textiles in comparison to dry textiles.

# 2°C

make all the difference. When your core body temperature increases by 2°C, your ability to perform starts to decline.

# 12°C

more heat against the skin is perceived as painful.

### THE MOST IMPORTANT UPPER TEXTILES

#### PBI®

- Highest tear-resistance on the market
- Soft and supple, even under the influence of heat
- Does not break up after contact with flames
- 205 g/m<sup>2</sup>

#### TITAN

- Premium textile of the Nomex® range
- Spacers for additional insulation
- Especially heat-resistant thanks to an additional air cushion
- Very good wash resistance thanks to a high Nomex® content
- Long-lasting impregnation
- 220 g/m<sup>2</sup>

#### TOUGH

- Most popular material on the market
- Spun-dyed
- Robust, resistant to friction and tearing
- 195 g/m<sup>2</sup>

#### RSK

- Textile specially developed in collaboration with S-GARD
- Now even more resistant to friction and tearing thanks to ripstop
- Good wash resistance thanks to a high Nomex® content
- Long-lasting impregnation
- 205 g/m<sup>2</sup>

#### NXT

- A further development of TOUGH
- Especially colorfast
- Very resistant to friction
- Long-lasting impregnation
- 195 g/m<sup>2</sup>

## The right membrane for your needs

### Technology overview of Class 2 turnout gear



We are well aware of the different and specific needs of our customers and have the right combination of textiles to suit every requirement. We use GORE-TEX membrane technologies in the majority of our products. That's because they are permanently waterproof, reliably reduce heat stress and now feature GORE® CROSSTECH® functionality. Combined with breathable, high-quality materials, our products are your guarantor for the greatest possible protection, wearing comfort and a long service life.

MEMBRANE	LAYERED STRUCTURE	UPPER FABRIC	SERIES
<b>GORE® PARALLON™ SYSTEM</b> Greatest heat and fire protection The unique membrane system with unsurpassed breathability coupled with excellent heat insulation – even in wet conditions.		PBI®	ULTIMATE
		TITAN	ULTIMATE
<b>AIRLOCK®</b> High freedom of movement and protection from heat and wet The spacer system ensures the air is reliably locked inside and offers the best flexibility available on the market.		PBI®	TITAN
		TITAN	ULTIMATE, TITAN
		TOUGH	HERO
		NXT	HERO
<b>FIREBLOCKER</b> Low weight, optimum moisture regulation This hard-wearing classic is one of the best-selling membranes of its kind. The clothing remains watertight and in form even despite frequent use. New: protection against contamination with blood and other bodily fluids.		TITAN	ULTIMATE
		RSK	SWISSGUARD, HUNTER, SWISSHUNTER
		TOUGH	ADVANCE PROGRESS
		NXT	ADVANCE PROGRESS



# GORE® PARALLON™ SYSTEM

## Now available in two variants

We use the GORE® PARALLON™ system in our ULTIMATE coats and pants. It was developed specifically to reduce the hazards of heat stress burns – especially where there is exposure to liquids such as firefighting water and rain. The lightweight, breathable and waterproof GORE® PARALLON™ system is a protective shield against severe heat and scalding that does not impinge on your agility.



## Protected by GORE® PARALLON™

GORE® PARALLON™ 600 combines breathable heat insulation with GORE-TEX moisture barriers: It consists of two membranes with the thermal insulation between them. Its special design ensures high breathability: sweat is quickly transported away from the skin. Simultaneously, the system prevents moisture from penetrating from the outside. This keeps the insulating layer dry and reduces the risk of heat stress, scalds and burns. So you can keep going in tough conditions!

## That extra bit of flexibility

Protective clothing should be as comfortable as possible to wear and pleasantly lightweight – regardless of how tough the going gets. This is why the innovative GORE® PARALLON™ 500 was launched on the market. It offers outstanding comfort and excellent flexibility combined with a very high level of protection.

## The benefits of both materials at a glance:

### GORE® PARALLON™ 600

Best heat protection

- Highest thermal protection combined with very good breathability
- Reliable heat protection even in wet conditions
- Ensures consistently extended escape time!

### GORE® PARALLON™ 500

Flexible and comfortable

- One of the most lightweight solutions on the market
- Good flexibility
- Unique combination of excellent breathability, very good heat protection and wearing comfort

We use the following Gore products:

- GORE-TEX Moisture Barrier with GORE® CROSSTECH® Product Technology
- GORE-TEX Fireblocker with GORE® CROSSTECH® Product Technology
- GORE-TEX Flameliner with GORE® CROSSTECH® Product Technology
- GORE-TEX Moisture Barrier with GORE® CROSSTECH® Product & AIRLOCK® Spacer Technology
- GORE-TEX Moisture Barrier with GORE® CROSSTECH® Product Technology & GORE® PARALLON™ System



S-GARD – Success with leading market partners



### S-GARD®

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