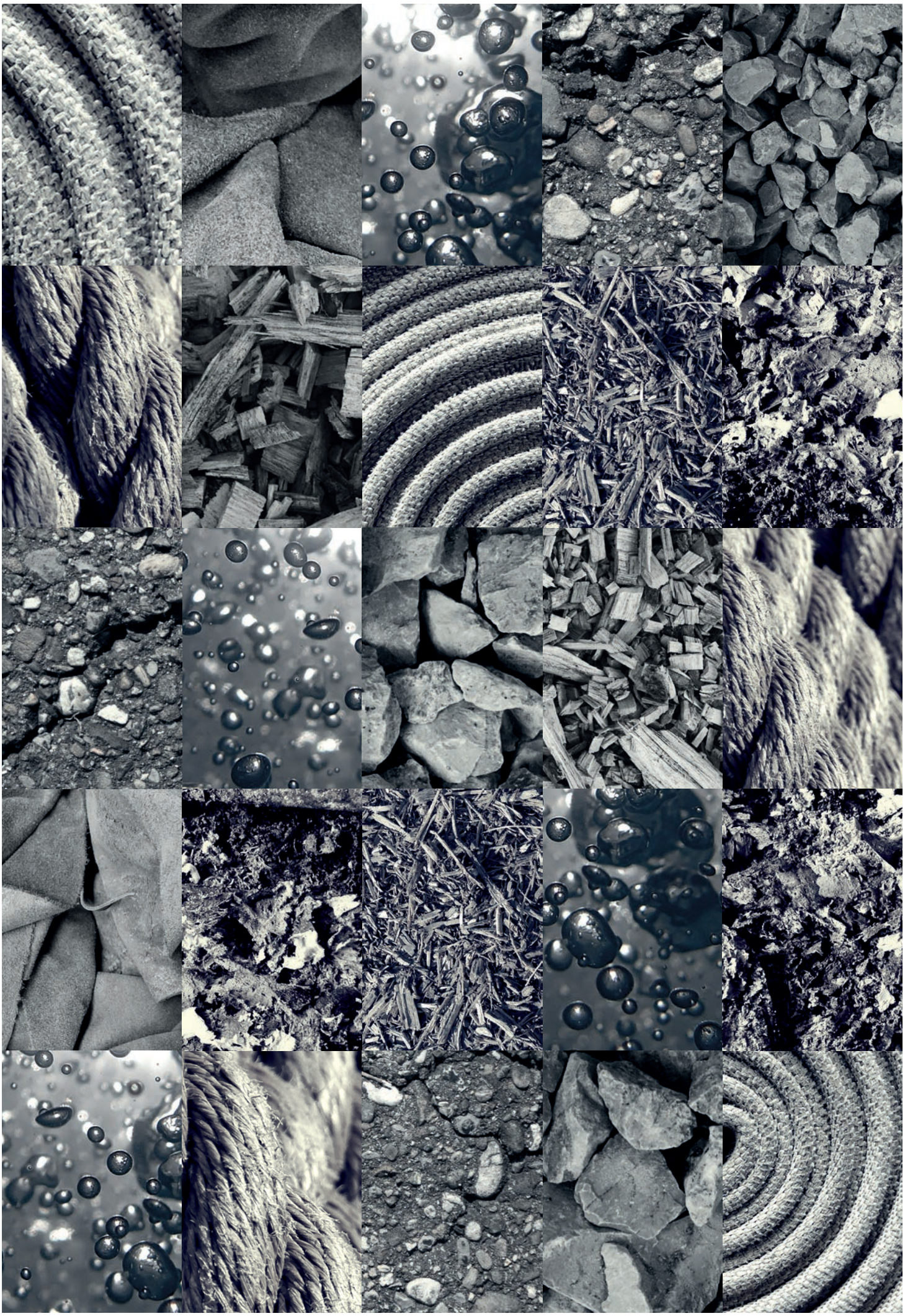
SEIZ



PREFACE

We grasp, hold, touch and feel ...

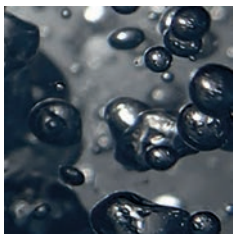
The hand is the universal tool of humans and at the same time most frequently affected by injuries. It needs to be protected as best as possible at all times and in every situation, while simultaneously having optimal freedom of movement. This is the goal of SEIZ. That is why we manufacture our own gloves. With innovations, high-performance materials and ergonomic shapes that continually redefine and revolutionize gloves and their protective function.

This is more than a catalogue. It is a means of presenting our products in their entirety through the interaction of information and impressions. From idea to ultimate use. Every pair of gloves writes its own history over time. Some of them we here present firsthand.

We hope you enjoy yourself while browsing and discovering.
Sincerely,
Rainer Seiz

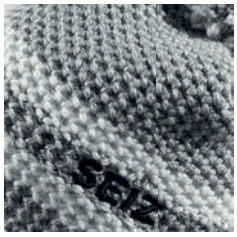
WILDFIRE / RESCUE P. 47

YOUNG FIREFIGHTERS P. 61



TAILOR-MADE GLOVES P. 65

EQUIPMENT P. 69



WINTER SPORTS P. 73

SEIZ

TIME TO PERFORM

We'll stand at your side
Even when it's getting tough
SEIZ is the brand at your hand
A high-performance glove

These lines from our company song *Your Hands in Good Hands* emphasize the reliability and high quality of SEIZ products as well as our identity and our responsibility.
The slogan TIME TO PERFORM highlights this thought.
We do our best and set technological standards in order to give our customers the ability to deliver top performance. Uncompromising protection is self-evident for us –but not enough. Our gloves should give the individuals wearing them the ability to perform their tasks even better. Comfort, ergonomic and functional design in conjunction with high technology qualify gloves from SEIZ as premium products.

THIS / THERE IS SEIZ

WE REMAIN TRUE TO OUR VALUES

Here at SEIZ, we aim to produce the best gloves in the world. For every type of hand. For every type of use. We can achieve this because we remain true to ourselves and our tradition. We are, and always will be, a family-owned company with values such as solidarity, loyalty, ambition, reliability and mutual respect. These values and the determination to constantly improve our gloves further for our customers through new innovations are what drives us. As an innovation and market leader, we are also aware of our responsibility towards nature and environment. All of this, combined with an attractive design, forms then basis for our success and gives us an edge over our competitors.

In times of social change and digital progress, some basic social values have lost their importance. We witness this daily; on the internet, TV and radio. Boasting, disrespectful conduct, violations of privacy are just some examples of this trend. But we do not stand for any of this!

We are aware of our roots and we know how much hard work it took to get where we are today. What began in an old farmhouse in 1961 is now a company that is located in Metzingen-Glems with a fully-automated high-bay warehouse and its own glove museum as well as a laboratory and an in-house sewing department. We have achieved all this because we have always remained true to our values and will continue to do so in the future. Back then and now, our main focus is on our customers. We aim to produce protective gloves to the satisfaction of our customers. No more, no less. Customer requirements have changed in recent years. Gloves no longer just have to be functional, they also have to be innovative with an appealing design and as much sustainable as possible (both production and packa-

ging). We have taken note and centred all of our thinking and doing around these customer requirements. We are facing these challenges and are happy to be measured by them.

Since February 2021, the SEIZ group operates climate neutral. We compensate our remaining CO_2 emissions, which are caused by our direct business activities, including the shipping of goods, with the support of selected compensationial projects according to Gold Standard. A corresponding seal was issued to us by the DIQP (German Institute for Quality Standards and Testing).

All of our company values, paired with competence and tradition, are our daily incentive to give our best for you, our esteemed customer.

Challenge us. We accept all challenges and see them as an opportunity to improve further and to provide you, our customer, with the perfect glove for your individual requirements.

SEIZ – we are a down-to-earth family-owned company and always will be!

GLOVE CONSTRUCTION

ABOUT HIGH-TECH FIBRES AND THE RIGHT COMBINATION

WIDE CUFF

NOMEX® cuff with reflective strip of 3M Scotchlite™.

2x D-ring and carabiner for attaching the gloves to the jacket..

HOOK AND LOOP FASTENERS

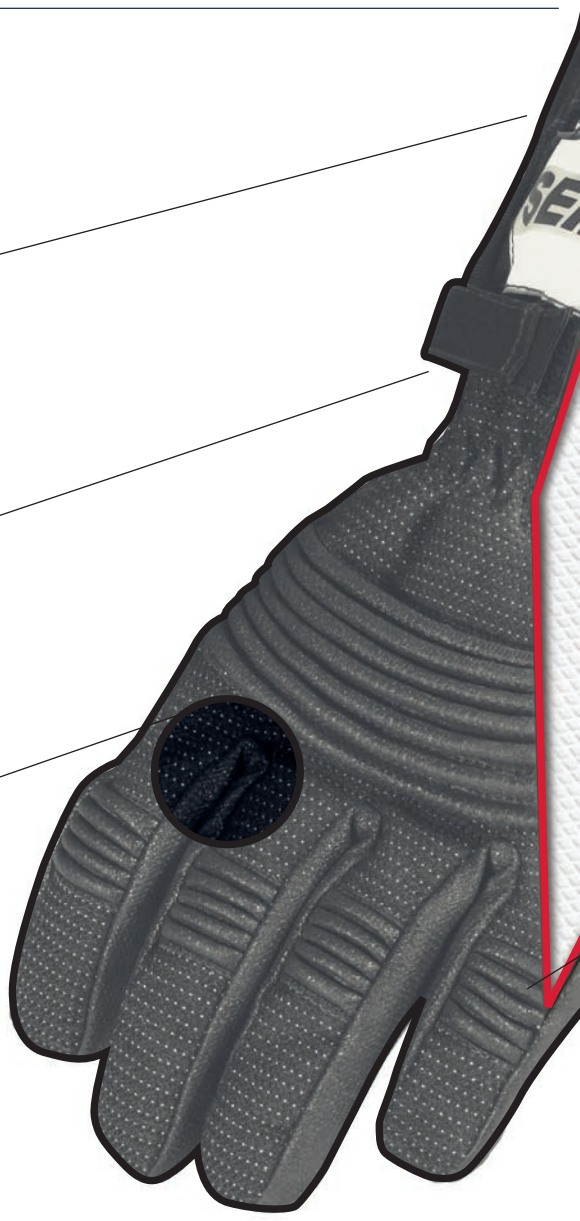
Two hook-and-loop fasteners for perfect fit in extreme situations.

PULSE PROTECTION

Cushions the most sensitive region of the wrist.

BACK OF THE HAND

NOMEX® protection with reflective dots for additional safety.



TACTICAL GLOVES

Gone are the days when occupational safety meant monstrous, bulky clothing and limited mobility. Protective gloves are one example. Thanks to the use of high-tech fibres and innovative manufacturing technologies, they offer not only a high degree of protection, but also a level of comfort and finger mobility that was still unimaginable a few years ago. While protecting the hands was previously associated with a limited sense of feel because of the thickness of the leather gloves used in many applications, a new level of comfort is now available. Our Fire-Fighter Premium is an example for that.

GORE-TEX CROSSTECH® GLOVE (FILM) INSERT

For better stability, the extremely thin GORE-TEX® membrane is sandwiched between the lining and outer skin. The GORE-TEX CROSSTECH® Glove (Film) Insert membrane provides additional protection against blood as well as other body fluids and various chemicals.

LINING

Cut-resistant and skin-friendly inner lining of KEVLAR®.

KNUCKLE AND HEAT PROTECTION

Integrated protection to guard the knuckles and serve as an effective barrier to heat penetration.

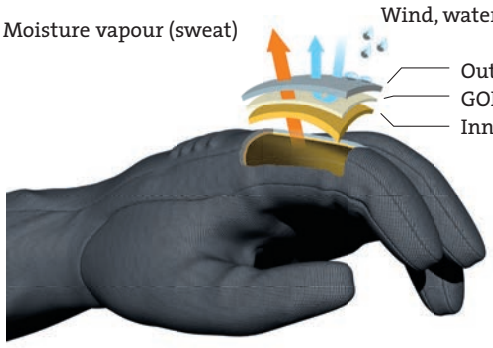
OUR QUALITY PARTNERS

The new, comfortable protection is achieved primarily through the use of high-performance fibres such as NOMEX®/PBI® for good heat protection, KEVLAR® for good protection against cuts and a GORE-TEX® membrane for long-term breathability and water repellency. GORE-TEX CROSSTECH® Glove (Film) Inserts are a durable barrier against the penetration of blood and body fluids, as well as defined liquid chemicals.

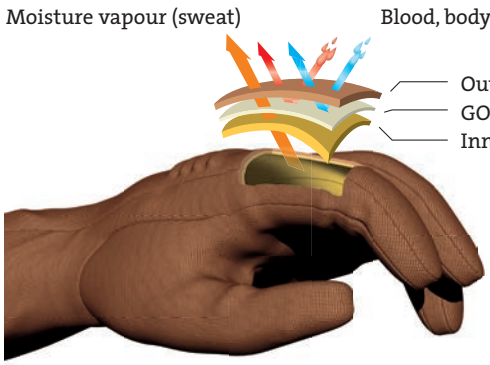
Each of these materials has a special property profile that allows gloves made from them to perform better than those made from natural materials such as cotton or leather. By combining different materials, it is possible to manufacture gloves that in addition to their multi-functional features, leave nothing to desire in terms of comfort when worn.

GLOVE MEMBRANE

IT'S THE INSIDE THAT COUNTS



GORE-TEX glove inserts
offer durable waterproofness, breathability and thermal stability: 3-layer ruggedness for heavy use and operations involving chemicals in accordance with EN 659.



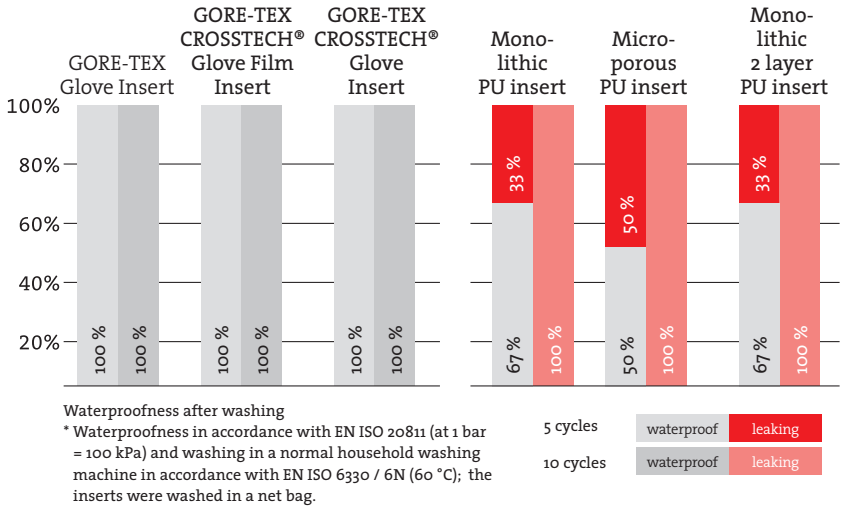
GORE-TEX CROSSTECH® Glove (Film) Inserts
are the solution when a risk assessment identifies the need for durable protection against blood and body fluids.

REQUIREMENTS AND TEST CONDITIONS:

In active use, gloves become soiled and contaminated. As all other Personal Protective Equipment (PPE), they need to be washed at regular intervals. Throughout their product lifetime, fire-fighting garments are typically washed up to 25 times:

- Based on the lifecycle of a glove, it would seem realistic to assume that it would be washed between 5 and 10 times.
- Washing procedures in accordance with EN ISO 6330/6N (60 °C) have established themselves as standard procedure at the majority of fire stations in German speaking countries.
- Washing at 60 °C in a normal household washing machine.
- In active use all kinds of different scenarios are possible. Certain parts of the glove may have to withstand extremely high pressures (> 1 bar = 100 kPa). For example: when having to crawl on all fours.

A membrane like the one from GORE-TEX cannot be seen or felt by the user. Nevertheless, it has crucial functions and can make all the difference in the field.



Waterproofness after washing
* Waterproofness in accordance with EN ISO 20811 (at 1 bar = 100 kPa) and washing in a normal household washing machine in accordance with EN ISO 6330 / 6N (60 °C); the inserts were washed in a net bag.

THERMAL STABILITY OF GORE-TEX GLOVE INSERTS IN COMPARISON WITH PU INSERTS

Monolithic PU insert


Microporous PU insert


Monolithic 2 layer PU insert

Test conditions:
5 minutes at 180 °C

During firefighting operations, when entering a room or when touching hot objects, firefighter gloves can be subjected to extremely high temperatures.

In the standards for firefighter PPE the thermal stability of the components of the protective equipment are tested in an oven (in accordance with ISO 17493) at 180 °C for 5 minutes.

GORE-TEX Glove Insert


GORE-TEX CROSSTECH® Glove Film Insert


GORE-TEX CROSSTECH® Glove Insert

CONCLUSIONS

- GORE-TEX Glove Inserts und GORE-TEX CROSSTECH® Glove (Film) Inserts are durably waterproof.(1)
- After 10 household washing cycles the tested PU glove inserts show leakage*; after 5 washing cycles they show 50 % leakage.(1)
- GORE-TEX Glove Inserts und GORE-TEX CROSSTECH® Glove (Film) Inserts for structural firefighting are thermally stable.(2)
- PU glove inserts are not thermally stable.(1)

BENEFITS IN USE

Permanent waterproof glove inserts

- prevent the insulation from becoming damp or soaked.
- prevent increased heat transfer as a result of damp or soaked insulation (risk of scald or burn injuries is therefore lower).
- protect against spatters of defined chemicals in accordance with EN 659.
- offer enhanced wearer comfort and lighter gloves due to lower water pick-up.

(1) Waterproofness in accordance with EN ISO 20811 (at 1 bar = 100 kPa) and washing in a normal household washing machine in accordance with EN ISO 6330 / 6N (60 °C); the inserts were washed in a net bag.
(2) Test according to ISO 17493 (5 min at 180 °C)

Source: Gore Glove Laboratory 2013

WASHING AND CARE TIPS

TACTICAL GLOVES

Protection gloves for firefighting are regularly exposed to extreme conditions and have to withstand various hazards. After use, soiled or contaminated firefighting gloves can simply be washed (according to the instructions on the inside label). The aim is for you, as the end user, to enjoy your gloves for as long as possible and to always be fully protected. For this reason, we have compiled the most important information on the subject of washing and care of firefighting gloves.

1. **The gloves must not be treated with solvents, bleaching agents and/or oxidising agents!**
   This weakens the aramid fibre, destroys laminate bonds and denatures leather. This can cause damage to the gloves. Do not wash gloves together with the rest of the clothing!

2. **Spin the gloves only at low speed!**
   To reduce the mechanical stress in the laundry, gloves should be spun at a maximum of between 400 and 600 revolutions.

3. **The gloves must not be dried in a tumble dryer!**
   In the tumble dryer, sometimes very high temperatures occur in combination with a very large fulling effect. This can damage the membrane and/or loosen the bond between the NOMEX® fabric and the KEVLAR® fleece. As a result, the stitch tear-out strength at the seams is greatly reduced. Leather becomes hard and brittle in the dryer. In the worst case, the laminate between the lining and the membrane can also come loose due to the fulling effect. This is impossible with proper treatment.

4. **Our gloves do not need to be impregnated!**

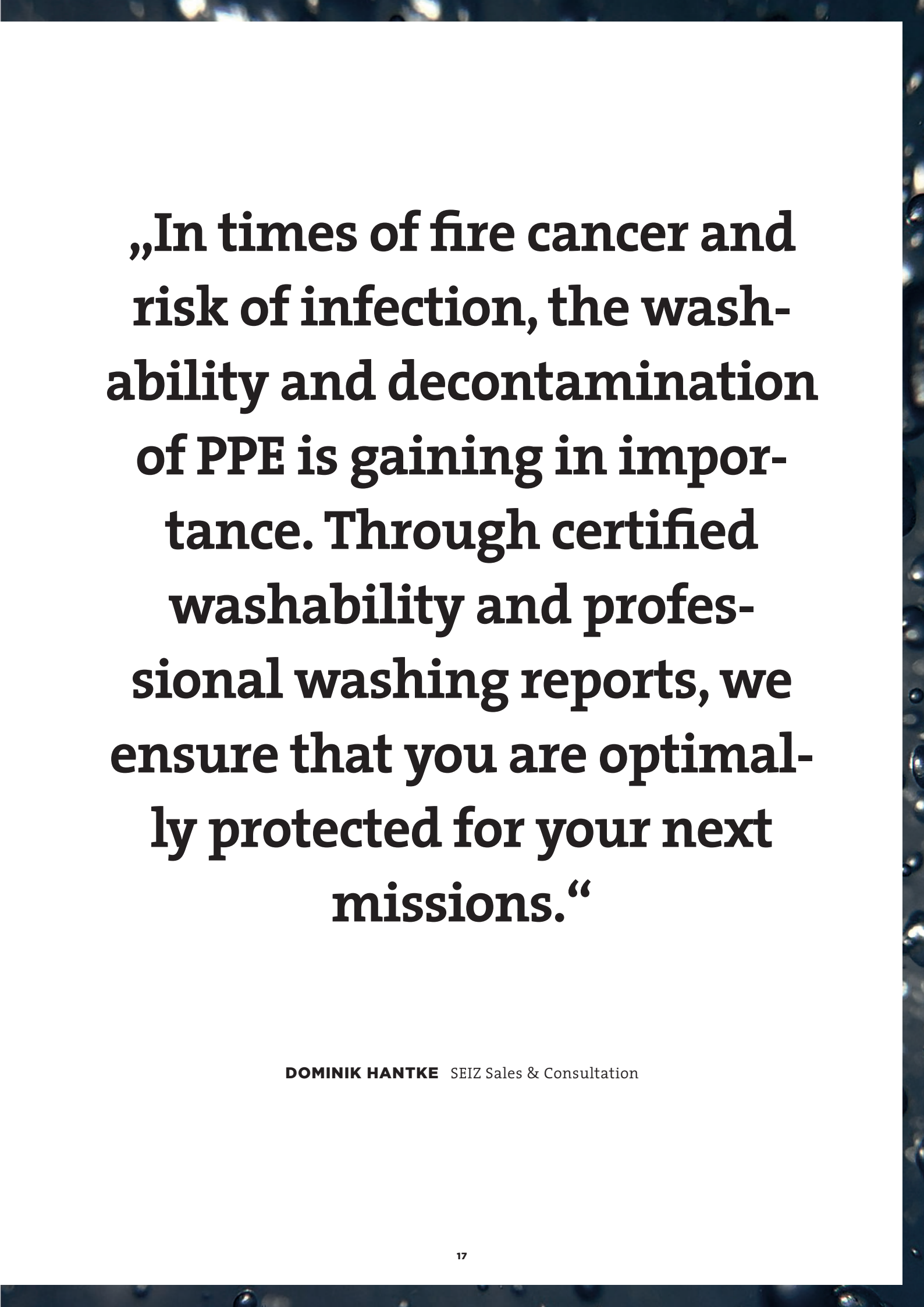
5. **The gloves should be hung up by the fingertips to dry!**
   Please put on leather gloves before drying and lightly roll them through by hand and finger movements. This procedure helps to partially restore the suppleness of the leather.

RESCUE GLOVES

Washing and care are also becoming increasingly important for rescue gloves. Particularly noteworthy, for example, is the model DIPTEX 666 PROFI, which has a certified washability of 60 °C (at least 5 wash cycles). The S-RESCUE model is washable at 40 °C and offers the advantage of maintaining its performance levels after several washes. The corresponding washing and care instructions can also be found on the inside label and the same specifications apply as for the firefighting gloves as well.

Very often the gloves are washed by a central laundry. It is of great concern to us that all this information is also communicated to the laundries.
A washing overview of all firefighters' gloves as well as videos on the subject of washing and care tips can also be found on our website www.seiz.de/wissenswertes.

Link to Website



„In times of fire cancer and risk of infection, the washability and decontamination of PPE is gaining in importance. Through certified washability and professional washing reports, we ensure that you are optimally protected for your next missions.“

DOMINIK HANTKE SEIZ Sales & Consultation

FIRE-FIGHTER

Gloves in the Fire-Fighter series are manufactured from high-performance textiles and as a result are extremely strong. They are characterized by an extremely long service life. Men and women firefighters who rely on the protection of a Fire-Fighter glove value precisely this reliability and especially high quality. They themselves are just as reliable, hard-working, conscientious and unconditionally loyal. True firefighters take their profession seriously, face challenges and do not hesitate to take them on. Firefighters are people of action.

ZIP`N`CLOSE:
PROTECTION WITH ONE ZIP – EVERY SECOND COUNTS

What is the use of ultra-modern, high-tech fire protection gloves if they do not fit properly and therefore fail to fully cover the hands and lower arms of the fire fighters? None at all. It renders them useless. There is more to a reliable fire protection glove than just materials and smart details. A perfect fit and closing system are also crucial for the protective function.

The alarm goes off at the fire station. The tyre store in the neighbouring town is up in flames. Every second counts to prevent the worst. Without hesitation, the fire fighters are ready to drive to the site and put out the fire. "Every situation is different and you never know on the way there what to expect." comments Rainer Seiz, Managing Director of Seiz Technical Gloves. As a member of the voluntary fire service of Metzingen, Glems department, he speaks from experience. How far has the fire spread already? Are there still people inside the building? Is there any danger of explosion? A host of questions goes through the heads of the fire fighters on the way to the site. Pure adrenaline. There is absolutely no time at all to start thinking about the personal protective equipment (PPE) at this point. It simply has to work and give reliable protection. Not just the suit, boots and helmet, but most importantly, the gloves. They are always in use and exposed to the biggest dangers. "They have to take far more than the rest of the protective equipment put together." explains Rainer Seiz.

"EVERY SECOND COUNTS DURING AN OPERATION. THE ZIP IS PUT ON QUICKLY AND CONVENIENTLY STOWED UNDER THE SLEEVE OF THE JACKET."

High-tech materials, wrist padding and knuckle protection, all of these details of modern fire protection gloves protect the hands of the fire fighters against serious injury caused by heat, impacts, blows and stitches. But, this protection is useless if the gloves do not fit the hands properly. This can happen, for example, if the cuff is too wide and leaves too much play to the wrist. The glove can slip out of position as a result and even come off the hand in a worst case scenario.

Gloves that are still on the hand but do not properly fit the wrist and lower arm become uncomfortable and inhibit movement. And that is not all; if the cuff does not fit underneath the jacket sleeves, sparks and hazardous liquids can touch the wrists and lower arms and cause serious injuries.

To provide reliable protection against such risks, the gloves must therefore fit the hands and lower arms perfectly without too much play. The new ZIP gloves ensures just that. The registered design is the first glove with a zip and hook and soft fastener. The development focussed on the cuff. The result is a brand-new type of cuff that is part of a clever patented fastener system (ZIP`N`CLOSE) that provides both reliable protection and comfort. **It combines the advantages of a wide cuff with those of a knitted cuff.** As a result, the membrane covers everything up to the end of the cuff and the glove can be quickly closed with one movement to provide well-fitting and reliable protection. The cuff also fits tightly to the wrist and lower arm, thus creating a perfect fit and comfort. What does this mean for the use at the tyre store? The gloves and jacket match each other perfectly and prevent sparks as well as fluids from running toward the lower arms or elbows. Even if the jacket slips back whilst in action, a continuous moisture and vapour barrier provides total protection. The additional hook and soft fastener fixes the glove firmly in place. The hands of the fire fighters are therefore reliably protected during the entire fire fighting scenario. The ZIP glove is available in the Fire-Fighter, Thermo-Fighter and X-Fighter versions, which differ only in the materials used (textile or leather).

SEIZ
ZIP 'N' CLOSE
SYSTEM

Patented:
EP No. 19 158 983.7
DE 20 2019 103 818.7
RCD Nr. 006620829

- Quick to take on and off
- Optimal fit and interplay with your jacket
- Continous steam barrier (membrane to the cuff end)

Link to video

PURE TECHNOLOGY

FIRE-FIGHTER ZIP (FF-ZIP)

1564420-FF-ZIP

Patented

PALM	Double-Face knit of KEVLAR®/ NOMEX® with silicone carbon coating.
BACK	NOMEX® in red and dark blue with SEIZ® Heat Absorber positioned to protect knuckles. Elastic gather at the wrist.
LINING	The KEVLAR® inner lining, the GORE-TEX CROSSTECH® membrane and the outer shell form a link that cannot come loose (3-layer construction).
MEMBRANE	GORE-TEX CROSSTECH® Glove Film Insert - resistance to blood and bacterial fluids.
CUFF	Cuff made of NOMEX® with patented ZIP`N`CLOSE closure system (zip and velcro closener). The advantages of a standard cuff and a knitted cuff are combined. Vapour barrier and waterproof up to the end of the cuff. Very good fit in combination with tactical jackets. Internal loop for carabiner for attaching the gloves to the jacket.
STANDARD	**EN 659:2003 + A1:2008 + AC:2009**
SIZES	**(05) 06 07 08 09 10 11 12 (13)**

SEIZ ZIP 'N' CLOSE SYSTEM · CERTIFIED 60 °C WASHABILITY · GORE CROSSTECH · DuPont™ Nomex · DUPONT Kevlar · EN 659 · CE

FIRE-FIGHTER PREMIUM (FF-P)

1564420-FF-P

PALM	Double-Face knit of KEVLAR®/ NOMEX® with silicone carbon coating.
BACK	NOMEX® with specially developed SEIZ® Heat Absorber over the knuckles. Reflective dots for additional safety. Elastic gather at the wrist.
LINING	The KEVLAR® inner lining, the GORE-TEX CROSSTECH® membrane and the outer shell form a link that cannot come loose (3-layer construction).
MEMBRANE	GORE-TEX CROSSTECH® Glove Film Insert - resistance to blood and bacterial fluids.
CUFF	Wide NOMEX® cuff with two fasteners for perfect fit in extreme situations. Reflective stripe of 3M Scotchlite™.
	2x D-ring and carabiner for attaching the gloves to the jacket.
STANDARD	**EN 659:2003 + A1:2008 + AC:2009**
SIZES	**(05) 06 07 08 09 10 11 12 13 (14)**

FIRE-FIGHTER PREMIUM S (FF-PS)

1564420-FF-PS

PALM	Double-Face knit of KEVLAR®/ NOMEX® with silicone carbon coating.
BACK	NOMEX® with specially developed SEIZ® Heat Absorber over the knuckles. Reflective dots for additional safety. Elastic gather at the wrist.
LINING	The KEVLAR® inner lining, the GORE-TEX CROSSTECH® membrane and the outer shell form a link that cannot come loose (3-layer construction).
MEMBRANE	GORE-TEX CROSSTECH® Glove Film Insert - resistance to blood and bacterial fluids.
CUFF	NOMEX® knitted cuff with pulse protection and eyelet for carabiner for attaching the gloves to the jacket.
STANDARD	**EN 659:2003 + A1:2008 + AC:2009**
SIZES	**(05) 06 07 08 09 10 11 12 13 (14)**

FIRE-FIGHTER PREMIUM PBI (FF-P-PBI)

NEW DESIGN

1564420-FF-P-PBI

PALM	Double-Face knit of KEVLAR®/NOMEX® with silicone carbon coating.
BACK	PBI® with SEIZ® Heat Absorber positioned to protect knuckles. Elastic shirring at wrist.
LINING	The KEVLAR® inner lining, the GORE-TEX CROSSTECH® membrane and the outer shell form a link that cannot come loose (3-layer construction).
MEMBRANE	GORE-TEX CROSSTECH® Glove Film Insert - resistance to blood and bacterial fluids.
CUFF	Wide cuff of PBI®. 3M Scotchlite™ segmented reflective tape at cuff end, with closure system on the inside of the hand. 2x D-ring and carabiner for attaching the gloves to the jacket
STANDARD	**EN 659:2003 + A1:2008 + AC:2009**
SIZES	**(05) 06 07 08 09 10 11 12 13 (14)**

FIRE-FIGHTER PREMIUM S PBI (FF-PS-PBI)

NEW DESIGN

1564420-FF-PS-PBI

PALM	Double-Face knit of KEVLAR®/NOMEX® with silicone carbon coating.
BACK	PBI® with SEIZ® Heat Absorber positioned to protect knuckles. Elastic shirring at wrist.
LINING	The KEVLAR® inner lining, the GORE-TEX CROSSTECH® membrane and the outer shell form a link that cannot come loose (3-layer construction).
MEMBRANE	GORE-TEX CROSSTECH® Glove Film Insert - resistance to blood and bacterial fluids.
CUFF	NOMEX® knitted cuff with pulse protection and eyelet for carabiner for attaching the gloves to the jacket.
STANDARD	**EN 659:2003 + A1:2008 + AC:2009**
SIZES	**05 06 07 08 09 10 11 12 13 (14)**

FIRE-FIGHTER EVOLUTION (FF-E)

1564420-FF-E

PALM	Double-Face knit of KEVLAR®/ NOMEX® with silicone carbon coating.
BACK	NOMEX® with specially developed SEIZ® Heat Absorber over the knuckles with patented ceramic coating for additional heat protection. Elastic gather at the wrist.
LINING	The KEVLAR® inner lining, the GORE-TEX CROSSTECH® membrane and the outer shell form a link that cannot come loose (3-layer construction).
MEMBRANE	GORE-TEX CROSSTECH® Glove Film Insert - resistance to blood and bacterial fluids.
CUFF	Wide NOMEX® cuff with bottom fastener and a ceramic coating in the printed honeycomb section. Reflective stripe of 3M Scotchlite™. 2x D-ring and carabiner for attaching the gloves to the jacket.
STANDARD	**EN 659:2003 + A1:2008 + AC:2009**
SIZES	**06 07 08 09 10 11 12**

FIRE-FIGHTER CLASSIC (FF-C)

1564420-FF-C

PALM	Double-Face knit of KEVLAR®/ NOMEX® with silicone carbon coating.
BACK	NOMEX® with laminated felt (patented process) of KEVLAR® and reflective strip of 3M Scotchlite™. Elastic gather at the wrist.
LINING	The KEVLAR® inner lining, the GORE-TEX membrane and the outer shell form a link that cannot come loose (3-layer construction).
MEMBRANE	GORE-TEX Glove Insert.
CUFF	Wide NOMEX® cuff with laminated felt (patented process) of KEVLAR®. All-round reflective strip of 3M Scotchlite™. 2x D-ring and carabiner for attaching the gloves to the jacket.
STANDARD	**EN 659:2003 + A1:2008 + AC:2009**
SIZES	**06 07 08 09 10 11 12 13 (14)**

FIRE-FIGHTER ANATOMIC (FF-A)

1564420-FF-A

PALM	Double-Face knit of KEVLAR®/ NOMEX® with silicone carbon coating.
BACK	NOMEX® with SEIZ® Heat Absorber positioned to protect knuckles. Additional reflective elements. Elastic gather at the wrist.
LINING	The KEVLAR® inner lining, the PTFE membrane and the outer shell form a link that cannot come loose (3-layer construction).
MEMBRANE	PTFE membrane. Waterproof, breathable, blood and bacteria proof. Viral and chemical resistance in accordance with NFPA 1971:2018.
CUFF	Wide NOMEX® cuff with bottom fastener for perfect fit and reflective strip. 2x D-ring and carabiner for attaching the gloves to the jacket.
STANDARD	**EN 659:2003 + A1:2008 + AC:2009**
SIZES	**(05) 06 07 08 09 10 11 12 13 (14)**

FIRE-FIGHTER ANATOMIC S (FF-AS)

1564420-FF-AS

PALM	Double-Face knit of KEVLAR®/ NOMEX® with silicone carbon coating.
BACK	NOMEX® with SEIZ® Heat Absorber positioned to protect knuckles. Additional reflective elements. Elastic gather at the wrist.
LINING	The KEVLAR® inner lining, the PTFE membrane and the outer shell form a link that cannot come loose (3-layer construction).
MEMBRANE	PTFE membrane. Waterproof, breathable, blood and bacteria proof. Viral and chemical resistance in accordance with NFPA 1971:2018.
CUFF	KEVLAR® knitted cuff with pulse protection and eyelet for carabiner for attaching the gloves to the jacket.
STANDARD	**EN 659:2003 + A1:2008 + AC:2009**
SIZES	**(05) 06 07 08 09 10 11 12 13 (14)**

FIRE-FIGHTER ANATOMIC PBI (FF-A-PBI)

1564420-FF-A-PBI

PALM	Double-Face knit of KEVLAR®/ NOMEX® with silicone carbon coating.
BACK	PBI® with SEIZ® Heat Absorber positioned to protect knuckles. Additional reflective elements. Elastic gather at the wrist.
LINING	The KEVLAR® inner lining, the PTFE membrane and the outer shell form a link that cannot come loose (3-layer construction).
MEMBRANE	PTFE membrane. Waterproof, breathable, blood and bacteria proof. Viral and chemical resistance in accordance with NFPA 1971:2018.
CUFF	Wide NOMEX® cuff with bottom fastener for perfect fit and reflective strip. 2x D-ring and carabiner for attaching the gloves to the jacket.
STANDARD	**EN 659:2003 + A1:2008 + AC:2009**
SIZES	**(05) 06 07 08 09 10 11 12 13 (14)**

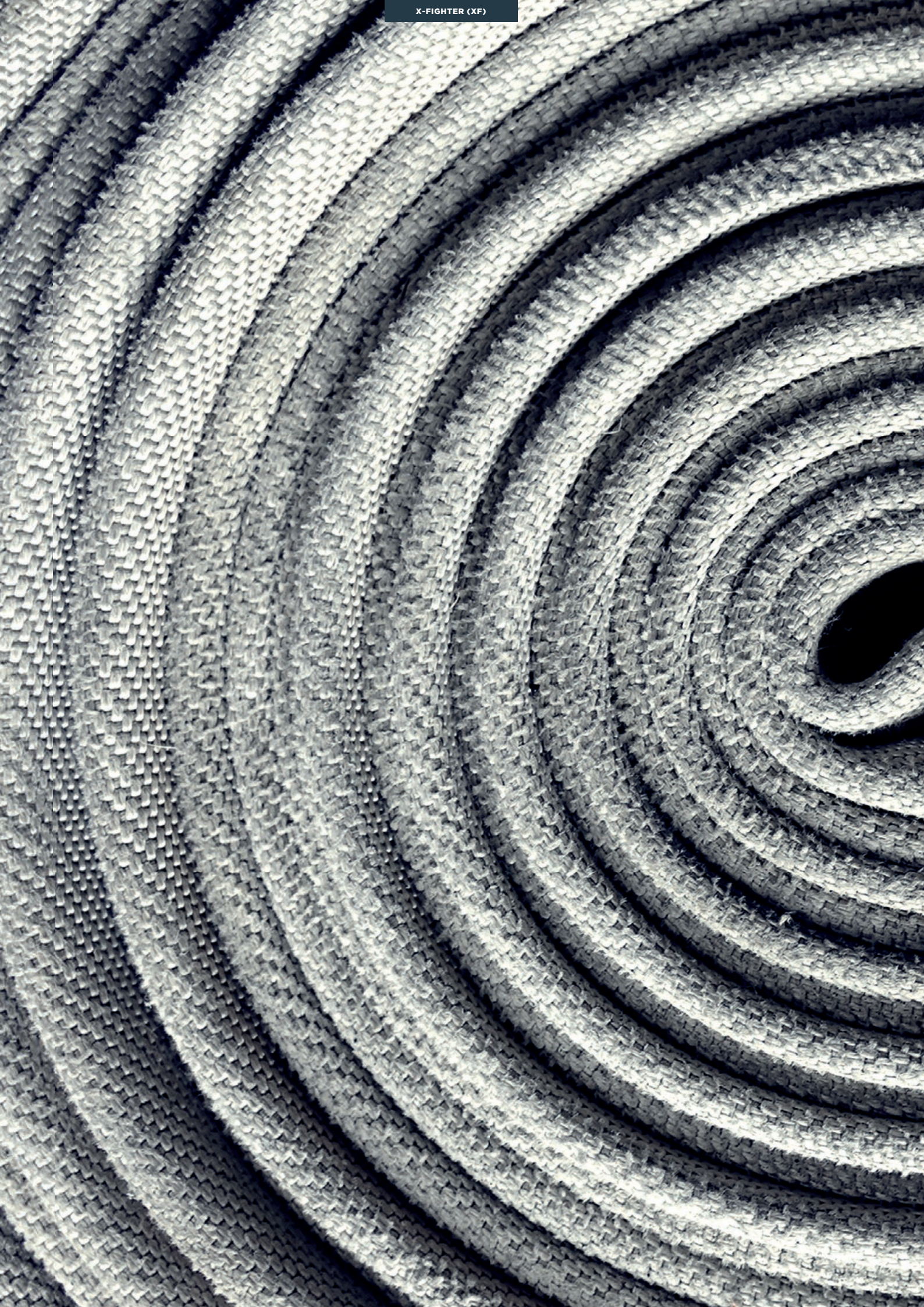
FIRE-FIGHTER ANATOMIC S PBI (FF-AS-PBI)

1564420-FF-AS-PBI

PALM	Double-Face knit of KEVLAR®/ NOMEX® with silicone carbon coating.
BACK	PBI® with SEIZ® Heat Absorber positioned to protect knuckles. Additional reflective elements. Elastic gather at the wrist.
LINING	The KEVLAR® inner lining, the PTFE membrane and the outer shell form a link that cannot come loose (3-layer construction).
MEMBRANE	PTFE membrane. Waterproof, breathable, blood and bacteria proof. Viral and chemical resistance in accordance with NFPA 1971:2018.
CUFF	KEVLAR® knitted cuff with pulse protection and eyelet for carabiner for attaching the gloves to the jacket.
STANDARD	**EN 659:2003 + A1:2008 + AC:2009**
SIZES	**05 06 07 08 09 10 11 12 13 (14)**

FELLOWSHIP


SEIZ



X-FIGHTER

Models of the X-Fighter series are extravagant and exclusive.
Soft elkskin leather provides unique comfort when worn. Worn by the elite among firefighters. The XF thus stands for those firefighters with outstanding strength, extreme endurance and rigid self-discipline; those who identify with their profession, self-confidently and resolutely pursue success and estimate their own capabilities on the basis of knowledge and with a cool head. They take the initiative with self-confidence and follow their instinct. They have high standards and value the best of the best.

THE EXTRAVAGANT ONE

X-FIGHTER PBI ZIP (XF-PBI-ZIP)

700400-ZIP

PALM	Beige coloured, smooth and hard-wearing soft grain leather.
BACK	PBI® with SEIZ® Heat Absorber positioned to protect knuckles. Elastic gather at the wrist.
LINING	The KEVLAR® inner lining, the GORE-TEX CROSSTECH® membrane and the outer shell form a link that cannot come loose (3-layer construction).
MEMBRANE	GORE-TEX CROSSTECH® Glove Film Insert - resistance to blood and bacterial fluids.
CUFF	Cuff made of PBI® with patented ZIP`N`CLOSE closure system (zip and velcro closener). The advantages of a standard cuff and a knitted cuff are combined. Vapour barrier and waterproof up to the end of the cuff. Very good fit in combination with tactical jackets. Internal loop for carabiner for attaching the gloves to the jacket.
STANDARD	**EN 659:2003 + A1:2008 + AC:2009**
SIZES	**(05) 06 07 08 09 10 11 12 (13)**

X-FIGHTER C (XF-C)

700425

PALM	Light-coloured, soft and wear-resistant elkskin leather. Index finger with conductive insert for operating capacitive touch screens. Elastic gather at the wrist.
BACK	Light-coloured, soft and wear-resistant full-grain leather with inserts of PBI®, red NOMEX® and durable, soft knuckle protection, tested to EN 13594.
LINING	The KEVLAR® inner lining, the GORE-TEX CROSSTECH® membrane and the outer shell form a link that cannot come loose (3-layer construction).
MEMBRANE	GORE-TEX CROSSTECH® Glove Insert - resistance to blood and bacterial fluids.
CUFF	Wide NOMEX® cuff with bottom fastener for perfect fit in extreme situations. 2x D-ring and carabiner for attaching the gloves to the jacket.
STANDARD	**EN 659:2003 + A1:2008 + AC:2009**
SIZES	**06 07 08 09 10 11 12 13**

X-FIGHTER (XF)

700400

PALM	Light-coloured, soft and wear-resistant elkskin leather.
BACK	Beige NOMEX® with specially developed SEIZ® Heat Absorber over the knuckles. Elastic gather at the wrist.
LINING	The KEVLAR® inner lining, the GORE-TEX CROSSTECH® membrane and the outer shell form a link that cannot come loose (3-layer construction).
MEMBRANE	GORE-TEX CROSSTECH® Glove Insert - resistance to blood and bacterial fluids.
CUFF	Wide NOMEX® cuff with two fasteners for perfect fit in extreme situations. 2x D-ring and carabiner for attaching the gloves to the jacket.
STANDARD	**EN 659:2003 + A1:2008 + AC:2009**
SIZES	**06 07 08 09 10 11 12 13**

X-FIGHTER S (XF-S)

700410

PALM	Light-coloured, soft and wear-resistant elkskin leather.
BACK	Beige NOMEX® with specially developed SEIZ® Heat Absorber over the knuckles. Elastic gather at the wrist.
LINING	The KEVLAR® inner lining, the GORE-TEX CROSSTECH® membrane and the outer shell form a link that cannot come loose (3-layer construction).
MEMBRANE	GORE-TEX CROSSTECH® Glove Insert - resistance to blood and bacterial fluids.
CUFF	NOMEX® knitted cuff with pulse protection, eyelet and carabiner for attaching the gloves to the jacket.
STANDARD	**EN 659:2003 + A1:2008 + AC:2009**
SIZES	**06 07 08 09 10 11 12 (13)**

X-FIGHTER PBI ZIP

- Combined ZIP and velcro closure system: ZIP`N`CLOSE
- GORE-TEX CROSSTECH® membrane to the cuff end
- Optimal interplay with your jacket

THERMO-FIGHTER

The robustness of the Thermo-Fighter emerges from the combination of traditional leather and modern materials. This combination of traditional and modern is appreciated by TF enthusiasts and gives them the necessary safety. They are realists who, in calm mastery of the situation, are always able to anticipate the consequences of their action. They are either fully committed to something or not committed at all. Whatever was started is brought to a conclusion. A high sense of responsibility, systematic approach to work and planned action ensure that they themselves have difficult situations under control.

TRADITIONAL & MODERN

THERMO-FIGHTER ZIP (TF-ZIP)

700300-ZIP

PALM	Heat-resistant, impregnated special leather.
BACK	NOMEX® in red with specially developed SEIZ® Heat Absorber over the knuckles. Elastic gather at the wrist.
LINING	The KEVLAR® inner lining, the GORE-TEX CROSSTECH® membrane and the outer shell form a link that cannot come loose (3-layer construction).
MEMBRANE	GORE-TEX CROSSTECH® Glove Film Insert - resistance to blood and bacterial fluids.
CUFF	Cuff made of NOMEX® with patented ZIP`N`CLOSE closure system (zip and velcro closener). The advantages of a standard cuff and a knitted cuff are combined. Vapour barrier and waterproof up to the end of the cuff. Very good fit in combination with tactical jackets. Internal loop for carabiner for attaching the gloves to the jacket.
STANDARD	**EN 659:2003 + A1:2008 + AC:2009**
SIZES	**(05) 06 07 08 09 10 11 12 (13)**

SEIZ ZIP 'N' CLOSE SYSTEM · CERTIFIED 60 °C WASHABILITY · GORE CROSSTECH · DuPont™ Nomex · DUPONT Kevlar · EN 659 · CE

THERMO-FIGHTER (TF)

700300

PALM	Heat-resistant, impregnated special leather.
BACK	NOMEX® with specially developed SEIZ® Heat Absorber over the knuckles. Elastic gather at the wrist.
LINING	The KEVLAR® inner lining, the GORE-TEX membrane and the outer shell form a link that cannot come loose (3-layer construction).
MEMBRANE	GORE-TEX Glove Insert.
CUFF	Wide NOMEX® cuff with two fasteners. D-ring and carabiner for attaching the gloves to the jacket.
STANDARD	**EN 659:2003 + A1:2008 + AC:2009**
SIZES	**06 07 08 09 10 11 12 (13)**

CERTIFIED 60 °C WASHABILITY · GORE-TEX · DuPont™ Nomex · DUPONT Kevlar · EN 659 · CE

THERMO-FIGHTER S (TF-S)

700310

PALM	Heat-resistant, impregnated special leather.
BACK	NOMEX® with specially developed SEIZ® Heat Absorber over the knuckles. Elastic gather at the wrist.
LINING	The KEVLAR® inner lining, the GORE-TEX membrane and the outer shell form a link that cannot come loose (3-layer construction).
MEMBRANE	GORE-TEX Glove Insert.
CUFF	NOMEX® knitted cuff with pulse protection, eyelet and carabiner for attaching the gloves to the jacket.
STANDARD	**EN 659:2003 + A1:2008 + AC:2009**
SIZES	**06 07 08 09 10 11 12 (13)**

THERMO-FIGHTER RED (TF-RED)
THERMO-FIGHTER S RED (TF-S-RED)

700302

700312

PALM	Heat-resistant, impregnated special leather.
BACK	Red NOMEX® with specially developed SEIZ® Heat Absorber over the knuckles. Elastic gather at the wrist.
LINING	The KEVLAR® inner lining, the GORE-TEX membrane and the outer shell form a link that cannot come loose (3-layer construction).
MEMBRANE	GORE-TEX Glove Insert.
CUFF	**TF-RED:** Wide, red NOMEX® cuff with two fasteners. D-ring and carabiner hook for attaching the gloves to the jacket. **TF-S-RED:** Black NOMEX® knitted cuff with pulse protection, eyelet and carabiner for attaching the gloves to the jacket.
STANDARD	**EN 659:2003 + A1:2008 + AC:2009**
SIZES	**06 07 08 09 10 11 12 (13)**


THERMO-FIGHTER

BASIC TACTICAL GLOVES

Small letters decorate the cuffs of the basic glove. Despite their being placed in a lower price segment, these gloves should not be underestimated. They are often true all-rounders in their field. Although certified as firefighter gloves, you can rely on these entry-level models for all technical tasks. These models are not there to be handled with care – they are intended to handle your budget with care. Decision-makers who can estimate the intensity of their activities correctly can lower their costs with these basic models.

SUPER-SOFT

700020

PALM	Soft full-grain cowhide leather in black.
BACK	Full-grain cowhide leather in black with knuckle protection. Elastic gather at the wrist.
LINING	KEVLAR® with polyester glass. The 3-layer structure of inner lining, membrane and outer shell is firmly bonded together.
MEMBRANE	Waterproof and breathable.
CUFF	Wide cuff of heat-resistant and impregnated special leather and yellow reflective strip of 3M Scotchlite™. D-ring and carabiner hook for attaching the gloves to the jacket.
STANDARD	**EN 659:2003 + A1:2008 + AC:2009**
SIZES	**06 07 08 09 10 11 12 (13)**

FIRE-WORKER SA011

700052

PALM	Heat resistant impregnated beige special leather.
BACK	Heat resistant impregnated beige special leather.
LINING	100 % KEVLAR®. The 3-layer structure of inner lining, membrane and outer shell is firmly bonded together.
MEMBRANE	Waterproof and breathable.
CUFF	Yellow knitted cuff made of KEVLAR®. Internal loop for carabiner for attaching the gloves to the jacket.
STANDARD	**EN 659:2003 + A1:2008 + AC:2009**
SIZES	**06 07 08 09 10 11 12**

FIRE-WORKER

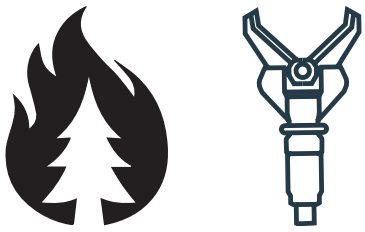
700050

PALM	Heat-resistant, impregnated special leather in black.
BACK	Heat-resistant, impregnated special leather in black with knuckle protection. Elastic gather at the wrist.
LINING	KEVLAR® with polyester glass. The 3-layer structure of inner lining, membrane and outer shell is firmly bonded together.
MEMBRANE	Waterproof and breathable.
CUFF	Wide cuff of heat-resistant and impregnated special leather and yellow-silver reflective strip of 3M Scotchlite™. D-ring and carabiner hook for attaching the gloves to the jacket.
STANDARD	**EN 659:2003 + A1:2008 + AC:2009**
SIZES	**06 07 08 09 10 11 12 (13)**

FIRE-WORKER S

700051

PALM	Heat-resistant, impregnated special leather in black.
BACK	Heat-resistant, impregnated special leather in black with knuckle protection. Elastic gather at the wrist.
LINING	KEVLAR® with polyester glass. The 3-layer structure of inner lining, membrane and outer shell is firmly bonded together.
MEMBRANE	Waterproof and breathable.
CUFF	Black KEVLAR® knitted cuff with pulse protection and eyelet for carabiner for attaching the gloves to the jacket.
STANDARD	**EN 659:2003 + A1:2008 + AC:2009**
SIZES	**06 07 08 09 10 11 12 (13)**



WILDFIRE / RESCUE

Forest and wildfires, explosions, floods and accidents are events that pose a danger to life and limb. Protecting property is also part of providing technical assistance. Having the right protective gear is very important when it comes to mastering these challenging tasks. Gloves for these purposes are intended for everyone who takes their responsibility to help others and do the right thing very seriously. As a true role model, they love to lend a helping hand and participate in something meaningful.

CLEAR THE STAGE: RESCUE GLOVE SPECTER IS A STAR IN THE THW GROUNDS

The sun is burning. It is a hot summer's day. A quick look over to the disaster training grounds of the German Federal Agency for Technical Relief, the Technisches Hilfswerk (THW), shows that all is quiet. The next emergency services staff training is only starting in a few hours. But suddenly, a young man is standing on a high tower in the centre of the field, takes a runup and jumps. What has just happened there? What has gotten into this man? And what is that loud noise? Terrified faces in the surrounding residential area and from the school nearby. But there is no need to worry: this is Lukas Gaisberger, a trained stuntman.

He has made a daring jump. What is the reason? The filming work for the rescue glove "Specter" for emergency services. The edited video does not show the huge air cushion that gently catches the stuntman after his daring jump. And this cushion is being continuously filled with air by a noisy compressor. That is the cause of the noise. The video instead shows the fist of the 33-year-old hitting into the hard concrete floor upon landing from his jump. Spectacular! There is hardly any better and more exciting way of showing the strong impact protection of a protective glove with anatomical finger and knuckle protectors.

"THE GLOVE FITS PERFECTLY AND GIVES ME SUPPORT WITH ITS EXCELLENT GRIP. I DO NOT THINK BUT SIMPLY GET GOING."

Steep walls, crumbling ruins, defective or burnt-out vehicles, tight shafts and dark bunkers: the THW disaster training grounds provide the emergency services with numerous opportunities to train for real-life deployments. At the same time, it provides an ideal and realistic backdrop for proving the properties of a protective glove for emergency services. Lukas Gaisberger is being supported on camera by the main actor, Andy Haug. He

FILM SHOOTING: CLEAR THE STAGE

quickly turns the training grounds into his playground. The 30-year-old is a professional freerunner. He finances himself through competitions, shoots and sponsors.

Haug is eyeing up the steep wall. He takes a short runup. He firmly pushes off from the wall with his hand and foot. He somersaults in mid-air. And lands on his feet as lightly as a kitten. This sequence of movements is a normal daily occurrence for Andy Haug whenever he comes past a wall. New for him are the gloves he is wearing: "I have never worn any gloves before when freerunning. But maybe I should think again," laughs the 30-year-old. "Actually, they give me a really firm grip on the wall!". Both on wet and oily surfaces. One thing is certain: the palm side of the Specter glove with its red nitrile safety grip coating has passed the test. And by the way, molasses replaces the oil during filming. This sugary solution has the same properties as oil but is environmentally friendly.

In a close-up in a car wreck, Andy Haug emphasises the all-round cutting protection of the glove by grabbing the half-disintegrated auto glass pane without any concerns. In a real emergency, there would also not be any time to consider the risks. Action is needed as every second counts. "I hardly feel any of the sharp pieces," comments the main actor. That shows strong protection. Made possible by the use of a high-performance yarn combination made from HPPE, fibreglass, nylon and spandex. As well as the additional reinforcement of the crook of the thumb. Yet the person wearing the glove does not lose her/his feeling – just moments later, Andy Haug operates a pocketknife with ease. The next scene is in the can. And straight onto the next one: He grabs into a large metal piece with full force – the Specter glove does not get pierced and resists the impact. "I do have a funny feeling when filming these scenes. I am grabbing sharp glass and pointed metal with full force after all. That really looks like a lot of pain," admits Andy. But the glove provides him reliable protection. And how durable is this kind of glove? The extreme athlete firmly and repeatedly rubs his glove over the hard and rough concrete wall. The result: no abrasion. The glove withstands all that is thrown at it. The fastener loop for fixing the glove to the insides of emergency service jackets are a practical touch.

"The glove fits perfectly and gives me support with its excellent grip. I do not think but simply get going," laughs the freerunner. It never gets really dangerous during the work on set, neither for the team nor the actor. But this is not always the case. He has previously broken a bone in his metatarsus, had countless bruises and split his upper lip during falls. "This could happen again today or any time. That is the risk I take with my job," comments Haug. "However, today, my hands are properly protected all round. I do not have to worry about them at all!". A compliment to the Specter glove which not only protects the freerunner, who is representing emergency personnel, but gives him an even better performance.

Link to video

MAGNUS

800186

NEW

PALM	Wear-resistant, reverse full-grain cowhide leather in grey. Reinforcement between index finger and thumb.
BACK	Flame resistant modacrylic in red, black and yellow, underlaid with gel knuckle protectors.
LINING	Comfort fleece lining on the backhand. Nylon fiberglass cut resistant lining on the palm.
CUFF	Neoprene, covered with flame resistant modacrylic in black. Velcro fastening and eyelet for carabiner for attaching the gloves to the tactical jacket. Flame resistant wedge at the glove entry to protect against sparks and splinters.
STANDARD	**ISO 16073-4:2019, EN 388:2016, EN 407:2004**
SIZES	**06 07 08 09 10 11 12 13**

EN 407 41XXXX

EN 388 3433CP

The number of wilfires has increased significantly in the past and will continue to concern us in the future due to global climate change.

The **Magnus** model was developed based on feedback and requirements from various fire brigades to provide responders with a lightweight glove for such operations.

Certified to ISO 16073-4:2019, EN 388:2016 and EN 407:2004, the glove is impressive thanks to its material composition of flame resistant modacrylic, a robust leather palm that has been tested for contact heat, and the cut resistant lining.

With the **Magnus**, whose construction is based on the rescue glove **Mechanic 185**, you have a practical 2in1 solution for firefighting in open terrain and technical assistance.

MECHANIC 185

800185

PALM	Wear-resistant, reverse full-grain cowhide leather in grey. Reinforcement between index finger and thumb.
BACK	Signal-yellow nylon and black knuckle neoprene protectors.
LINING	Comfort fleece lining on the backhand. Nylon fiberglass cut resistant lining on the palm.
CUFF	Neoprene cuff with velcro closure and eyelet for carabiner for attaching the gloves to the jacket.
STANDARD	**EN 388:2016**
SIZES	**06 07 08 09 10 11 12 13**

CERTIFIED 40 °C WASHABILITY

EN 388 3433C

EN 407 X1XXXX

CE

MECHANIC 185 SLIM

800185 #SLIM

NEW

SLIM FIT

PALM	Wear-resistant, reverse full-grain cowhide leather in grey. Reinforcement between index finger and thumb.
BACK	Signal-yellow nylon and black knuckle neoprene protectors.
LINING	Comfort fleece lining on the backhand. Nylon fiberglass cut resistant lining on the palm.
CUFF	Neoprene cuff with velcro closure and eyelet for carabiner for attaching the gloves to the jacket.
STANDARD	**EN 388:2016**
SIZES	**06 07 08 09 10 11 12 13**

CERTIFIED 40 °C WASHABILITY

EN 388 3433C

EN 407 X1XXXX

CE

PROFEEL

800100-PRF

PALM	Black blended fabric of elastane and polyamide with reinforcements of special Amara leather fabric in the thumb area. The silicone print ensures perfect grip.
BACK	Yellow and red windbreaker fabric paired with black neoprene.
LINING	KEVLAR® with fiberglass for 360° all-around protection.
CUFF	With elastic gather to protect against glass splinters and dirt. Donning aid with eyelet for carabiner for attaching the gloves to the jacket.
STANDARD	**EN 388:2016**
SIZES	**06 07 08 09 10 11 12 13**

CERTIFIED 40 °C WASHABILITY

EN 388

4544E

CE

S-RESCUE

800113-SRES

PALM	Black blended fabric of elastane and polyamide with reinforcements of special fabric enhanced with KEVLAR®. Contact heat up to 250 °C.
BACK	Signal-yellow blended fabric of elastane and polyamide. Impact protectors over the finger knuckles and the back of the hand.
LINING	KEVLAR® fiberglass.
CUFF	With elastic gather to protect against glass splinters and dirt. Internal loop for carabiner for attaching the gloves to the jacket.
STANDARD	**EN 388:2016, EN 407:2004**
SIZES	**06 07 08 09 10 11 12 (13)**

CERTIFIED 40 °C WASHABILITY

PERFORMANCE LEVELS 25 WASHING CYCLES CERTIFIED

DUPONT Kevlar

EN 388

4X43C

EN 407

X2XXXX

CE

X-RESCUE

800113

PALM	KEVLAR® with silicone coating and reinforcements of Amara leather. Contact heat up to 100 °C.
BACK	Nylon in yellow with knuckle protectors of Amara leather.
LINING	KEVLAR® with fiberglass.
CUFF	Long cuff with elastic gather and velcro fastener at the wrist. Internal loop for carabiner for attaching the gloves to the jacket.
STANDARD	**EN 388:2016, EN 407:2004**
SIZES	**06 07 08 09 10 11 12 (13)**

DUPONT Kevlar. EN 388 4543D EN 407 X1XXXX CE

EXTRICATION

800245

PALM	Wear-resistant, reverse full-grain cowhide leather in dark-grey. Leather reinforcements on the inside and in the thumb region.
BACK	100 % nylon with knuckle neoprene protectors.
LINING	100 % KEVLAR®.
MEMBRANE	Waterproof and breathable.
CUFF	A velcro fastener on the cuff seals the glove, protects the hand and prevents entry of splinters and dirt. Donning aid with eyelet for carabiner for attaching the gloves to the jacket.
STANDARD	**EN 388:2016**
SIZES	**07 08 09 10 11 12**

CERTIFIED 30 °C WASHABILITY DUPONT Kevlar. EN 388 3434D CE

DIPTEX 666 PROFI

200666-PRO

PALM	Seamless knitted cut protection glove made of high performance yarn (HPPE) and steel thread. Palm with a non-slip nitrile foam dipping. Touch function (device dependent).
BACK	High performance yarn (HPPE) with additional finger and knuckle protectors.
CUFF	Internal loop for carabiner for attaching the gloves to the jacket.
STANDARD	**EN 388:2016**
SIZES	**06 07 08 09 10 11**


4X43FP

SPECTER

800295

PALM	Seamless knitted cut protection glove made of high-performance yarn combination consisting of HPPE, fiberglass, nylon and spandex. Red nitrile dipping for secure grip. Sewn reinforcement between thumb and index finger.
BACK	Yarn combination like palm with additional finger and knuckle protectors.
CUFF	Internal loop for carabiner for attaching the gloves to the jacket.
STANDARD	**EN 388:2016**
SIZES	**06 07 08 09 10 11 12**

4X43CP

DIPTEX CHEM-552

400552

DESCRIPTION

Cut-resistant liner (18 gauge) that is extremely comfortable to wear, with triple nitrile dipping in sandy finish. Provides very good grip for handling wet and oily parts. Despite its robustness, the glove is very flexible and fits almost every anatomical hand shape. Contact heat up to 100 °C.

STANDARD

EN 388:2016, EN 407:2004, EN 374-1:2016/TYP B, EN 374-5:2016

Test chemicals: J | n-heptane, K | Sodium hydroxide, 40 %, L | Sulphuric acid, 96 %

SIZES

08 09 10 11 12

INSULATING GLOVES

CG-10-S2

DESCRIPTION Personal protection against electrical shocks for live working up to 1000 V. These gloves provide protection against arc flash: they are compliant with the standard EN 61482-1-2 class 1 and class 2.

ACCESOIRES 911703-132 Over gloves
CG-117 Pneumatic glove tester

STANDARD **EN 60903:2003, IEC 61482-1-2**

SIZES **08 10**

IEC 60903 EN 60903 | IEC 61482-1-2 | CE

OVER GLOVES (K-GRIP 7G SIL / K-GRIP 7G PVC)

911703-432 / 911703-432R

DESCRIPTION Overgloves for mechanical protection of the insulating gloves. Consist of 100 % KEVLAR® and are equipped with transparent silicone nubs (-432) or red PVC nubs (-432R) on the palm for optimum grip.

STANDARD **EN 388:2016**

SIZES **08 10**

DUPONT Kevlar | EN 388 2 3 4 X B | CE

PNEUMATIC GLOVE TESTER

CG-117

DESCRIPTION Before each use, the insulating gloves must always be checked and a repeat test (visibility and tightness) must be carried out every six months.

DIMENSIONS Height: 14 cm / Diameter: 12,5 cm

WEIGHT 675 g

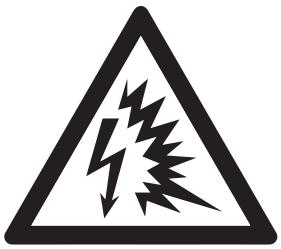
GLOVE BAG

300220

DESCRIPTION The glove bag in black/red made of cotra and mesh is used to store tactical and technical gloves, but is mainly intended for the article CG-10-S2 (insulating gloves). The mesh material on the sides ensures good ventilation of the gloves. The bag can be hung up by means of a loop.

DIMENSIONS Length x width x height: approx. 40 cm x 23 cm x 7 cm

TESTED AND CERTIFIED: INSULATING GLOVES RELIABLY PROTECT AGAINST ARC FLASHS



Everyone who is exposed to the thermal hazards of an arc flash in their job needs reliable personal protective equipment (PPE). This also includes protective gloves. The requirements that these must fulfil have not yet been standardised in any standard. For this reason, the Testing and Certification Body for Electrical Engineering of the ETEM Division has drawn up two test principles (German Social Accident Insurance (DGUV) test): These serve as the basis for certified hand protection - such as the SEIZ insulating glove. In combination with the other components of their protective equipment, they protect, for example, fire brigade rescue workers from risks such as electric shocks when working under voltage. The glove can also be used in the automotive industry to protect against electric arcs - for example, in the manufacture of modern drive technology.

"MISSIONS INVOLVING E-CARS IN ACCIDENTS ARE BECOMING MORE AND MORE FREQUENT AND INVOLVE NEW DANGERS."

_Obligation for fire-fighters

To prevent risks posed by an arc flash during a fire brigade operation, the standard DIN 14800-13 for fire brigade equipment for fire engines stipulates that a pair of electrically insulating protective gloves must be part of the traffic accident kit. These are also required when deactivating electric vehicles in their rescue data sheets.

When working with electric current, there is always a risk of an arc flash. This arises in the event of a short circuit or if live parts are disconnected or damaged. Not only electricians, mechatronics engineers or vehicle technicians are aware of this danger, but also firefighters. In the event of a road accident involving an electric or hybrid car, the lithium-ion battery can be damaged and an arc flash can occur - in the worst case with fatal consequences such as a dangerous flow through the body when

touched. This in turn can lead to ventricular fibrillation and even cardiac arrest, internal and external burns and nerve paralysis. The effects of an arc flash are serious even if the body is not exposed to it: temperatures of up to 19,000 degrees Celsius, a pressure wave as a result of the rapid energy discharge or light effects with high UV and infrared radiation may occur.

_Requirements for hand protection specified

For their own safety, for example, public utility employees or workers in the field of modern drive technology in the automotive industry, as well as rescue workers, need reliable protective equipment, which includes gloves. These gloves protect the various occupational groups from electric shocks when working under voltage of up to 1,000 volts on the one hand and from arc flashs on the other. But which requirements must the model fulfil for this protec tive function? Up to now, there has been no standard for testing and evaluating the arc flash resistance and protection of gloves. For this reason, the Testing and Certification Body for Electrical Engineering of the ETEM Division established the testing principles GS-ET-42-1 and GS-ET-42-2. The principles refer to the additional requirements for the testing and certification of electrically insulating gloves or heat protective gloves with additional protection against the thermal effects of an arc flash (DGUV Information 203-077- Thermal hazard due to arc flashs).

_Put through their paces

In addition to testing arc flash resistance and protection, the testing principles also cover other safety-relevant additional requirements for arc flash protective gloves. Gloves certified in this way comply with the EN 61482-1-2 Box Test APC 2 standard for protective clothing against the thermal hazards of an electric arc. It serves as proof of arc flash protection by the textile materials used. To meet this proof, the gloves must be subjected to the so-called box test.

This tests thermal insulation, burn hazard and garment function after exposure to an electric arc. In the box test, the gloves are classified in class 1 (4 kiloamperes) and class 2 (7 kiloamperes), with class 2 indicating the best protection. This highest level of protection is provided by the SEIZ insulating glove, which is also tested in accordance with EN 60903:2003 and IEC 60903:2014 for gloves made of insulating material for live working. The acid, ozone and cold-resistant model is available with **overgloves**; wearing layered clothing increases protection.

Another accessory is a **pneumatic glove tester**: In order to ensure long-term reliable protection, the gloves, like any other PPE, must be checked after each use (but at least every six months if there is no use). For this purpose, an internal and external visual inspection as well as a leak test must be carried out. The model can also be worn with cotton undergloves to provide additional protection against cold and to increase comfort.

YOUNG FIREFIGHTERS

To be a young firefighter is probably the most wonderful interest a young person can have. Is there a better way to instil team spirit and comradeship as well as responsibility and trust? In conjunction with practical abilities, technical understanding and physical fitness, these values make being a member of the young firefighters group the most meaningful leisure-time activity for youths and adolescents. The fun and the great adventure arouse fascination with the young firefighters group. The SEIZ JF glove models are part of the reliable protective gear of the next generation of firefighters and are ideal for practicing rescue activities, extinguishing fires, attempting recovery and learning to protect.

JF

800190

PALM	Black Amara leather with light padding.
BACK	Black Amara leather with grey knuckle protectors over the back of the hand and the fingers.
LINING	Soft acrylic lining.
CUFF	Double velcro fastener for perfect fit, pulse protection at the wrist. With yellow-silver-yellow signal strip on the back and a system of D-ring and hook for attaching the gloves to the jacket. With elastic gather to protect against glass splinters and dirt.
STANDARD	**EN 388:2016**
SIZES	**03 04 05 06 07 08 09 10 (12)**

EN 388

4141X

COMPANION

800169-COM

PALM	Black Amara leather with light padding with silicon mesh for improved grip.
BACK	Made of blue and orange-coloured nylon with comfortable, soft acrylic lining, reflective finger applications and sublimation print "JUGENDFEUERWEHR" on neoprene.
LINING	Soft acrylic lining.
CUFF	Knitted cuff with D-ring and hook for attaching the gloves to the jacket.
STANDARD	**EN 388:2016**
SIZES	**02 04 06 08 10 12**

EN 388

3232X

FW-JUGEND

800167

PALM	Black Amara leather with light padding.
BACK	100 % nylon with knuckle protectors made of Amara leather.
LINING	Soft acrylic lining.
CUFF	Knitted cuff with D-ring and hook ring for attaching the gloves to the jacket.
STANDARD	**EN 388:2016**
SIZES	**04 06 08 10**

EN 388

4141X

KID

800169-KID

PALM	Black Amara leather with light padding with silicon mesh for improved grip.
BACK	Made of blue and yellow-coloured nylon with pleasant, soft acrylic lining, reflective finger applications and sublimation print "KINDERFEUERWEHR" on neoprene.
LINING	Soft acrylic lining.
CUFF	Knitted cuff with D-ring and hook for attaching the gloves to the jacket.
STANDARD	**EN 388:2016**
SIZES	**02 03 04 05**

EN 388

3232X

TAILOR-MADE GLOVES

Ten fingers – a million possibilities. By having its own tailor-made glove design, every crew can differentiate itself from others and express team spirit in a special way. Creativity has no limits. A dozen colours are available and can be combined. It is also possible to incorporate your own logos and images into the design. The large number of possibilities makes each glove model unique. An original idea for everyone who is original.

GLOVE CONFIGURATION

THE BEST DESIGNER IS YOURSELF. WE ARE HAPPY TO ADVISE YOU!

Link to website

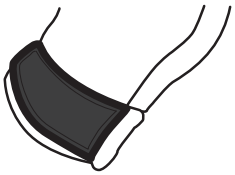
YOUR THEME

1-COLOUR
SCREEN-PRINTED

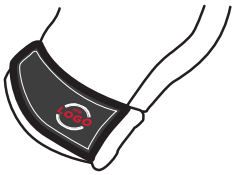
RUBBER LOGO
UP TO 3 COLOURS

SUBLIMATION

HOOK AND LOOP FASTENERS



WITH NO PRINTING

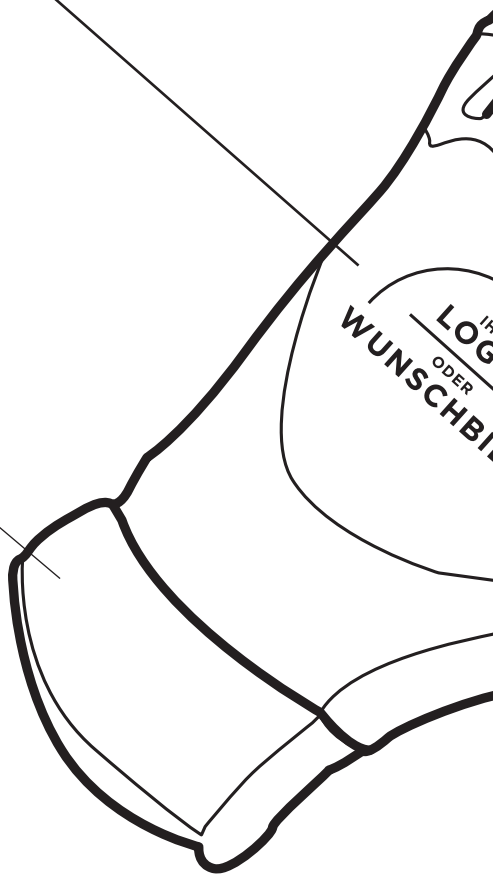


RUBBER LOGO
UP TO 3 COLOURS

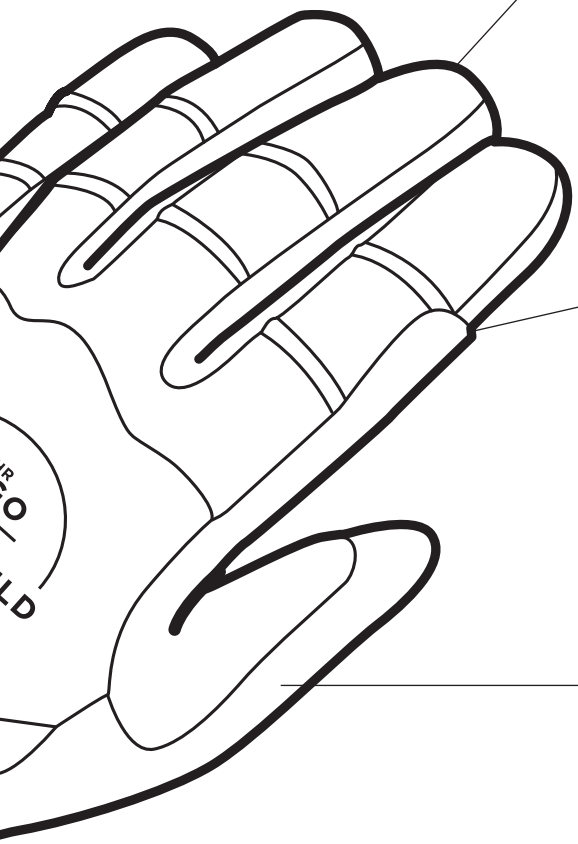
DIPPED GLOVES

PU NIT LAT

Nowadays, coated gloves are finding their way into all fields of work. In this regard, PU-coated gloves are the perfect all-rounder that hardly limits the hand's sense of touch and delicacy of feeling. Nitrile gloves are especially well-suited for handling oily parts. Tell us about your particular requirements!

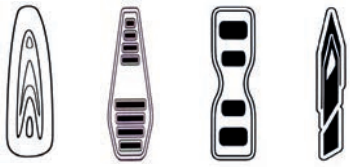


EXAMPLES OF APPLICATIONS



APPLICATION

In addition to selection from a wide variety of applications, you can also specify a number of colours.



UP TO 3 COLOURS

COLOURS

KNIT GLOVES

Knit protective gloves are not manufactured from individual parts like common gloves, but instead are produced without seams on special knitting machines. Since no seam presses or rubs, they are very comfortable to wear. With a production capacity of more than 10 million pairs per year, we offer the appropriate knit glove for almost every application based on a selection of various starting materials and methods for applying nubs. Challenge us!

EQUIPMENT

Something on top: The assortment of products from SEIZ extends beyond gloves.
SEIZ equipment includes what is useful as well as original and is select in any case.
The right accessory can simplify many tasks and situations. The person who prepares appropriately is farsighted – the one who thinks of what situation can arise. Individuals with a sense of curiosity and a cool rational approach will appreciate what is on the following pages, whether small refinement or major innovation. Equipment for new as well as recurring challenges, just right for a special glove.

TEAM FW

WGL01012-FW

PALM	Synthetic leather in black with subtle black grip elements.
BACK	Embossed neoprene and soft shell in black.
LINING	Soft polyester lining.
CUFF	Neoprene wristband with velcro closure.
OTHER	Plain going out glove for colder days. SEIZ logo on the index finger in black.
SIZES	**06 07 08 09 10 11 12 (13)**

MESH WASHING BAG

300200

DESCRIPTION	Mesh washing bag of polyamide in blue with zipper fastener, carrying strap and name tag.
DIMENSIONS	approx. 38 x 20 x 3 cm

SLING

900345

DESCRIPTION	Glove holder with adjustable sling for secure fixing at firefighter's clothing. Completely made of fire retardant material, metal D-ring and alu carabiner. Fits to all firefighter gloves.
COLOUR	**Black**
SIZE	**Uni**

SNAPPER

900340

DESCRIPTION	One-handed glove holder for carrying protective gloves (recommended for rescue gloves). The **Snapper** can be attached to the protective clothing either by means of a belt clip or with the supplied snap hook to the protective clothing. The gloves are fastened by pressing the clip together. A simple press of the thumb is enough to release the gloves from their fastening. Made in Germany!
COLOURS	**Red, black**

FIREFIGHTER KNITTED HAT PREMIUM

900600-gold, -navy, -red

DESCRIPTION	Whether gold, navy or red - the knitted hats with bobble and reflective strip are eye-catchers in any case. Ears and forehead are additionally protected from the cold by a fleece band insert. 100 % Made in Germany!
MATERIAL	**50 % merino wool, 50 % polyester, 100 % micro fleece**
COLOURS	**Gold, navy, red**
SIZES	**Uni**

FIREFIGHTER KNITTED HAT CLASSIC

900650-gold, -navy, -red

DESCRIPTION	The Classic fine-knit beanie-style hats with reflective strip have a fleece band insert to protect the ears and forehead from the cold. 100 % Made in Germany!
MATERIAL	**50 % merino wool, 50 % polyester, 100 % micro fleece**
COLOURS	**Gold, navy, red**
SIZES	**Uni**

KNITTED HAT HERZBLUT

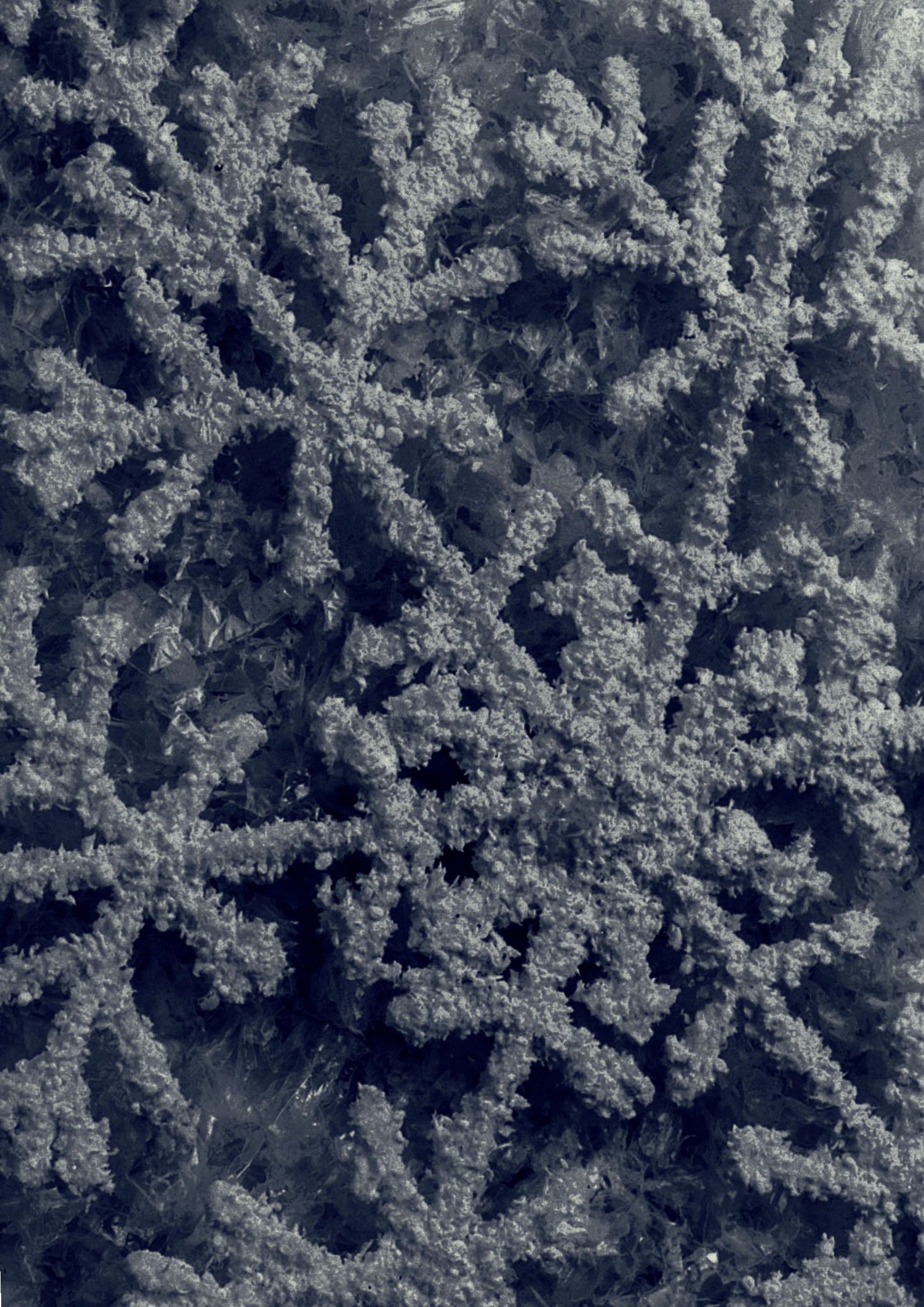
900651-FF

DESCRIPTION	The knitted hat **Herzblut** with bobble in elegant beanie style is made for female firefighters. The double knitted hat is with the color black restrained and yet elegantly designed. Ears and forehead are additionally protected by a fleece band insert against cold. 100 % Made in Germany!
MATERIAL	**50 % merino wool, 50 % polyester, 100 % micro fleece**
COLOURS	**Black, silver-grey**
SIZES	**Uni**

KNITTED HATS FOR KIDS AND YOUNG FIREFIGHTERS

900652

DESCRIPTION	The double-knitted, classic knitted hat is colour-coordinated with the uniforms of the kid`s fire brigade (yellow) or the youth fire brigade (orange). As with the "big ones", a reflective strip ensures good visibility in the dark. With this beanie-style hat, the young firefighters are well protected against the cold even during winter missions and games.
MATERIAL	**100 % acryl**
COLOURS	**Yellow, orange**
SIZES	**Uni**



WINTER SPORTS

In the area of gloves for winter sports not much has changed in recent years. Old-fashioned cuts, commonplace designs and very thick materials that restricted movement – winter sports enthusiasts had to make do with gloves that were uncomfortable to wear and offered little functionality. At the same time, development of protective gloves for firefighters and first responders as well as for the trades and industry advanced rapidly. Why not transfer this know-how and the latest technology to the area of winter sports, which has so much potential?

PROFESSIONEL PROTECTIVE WINTER SPORT GLOVES: KNOWLEDGE TRANSFER FROM INDUSTRY AND FIRE SERVICES

Have you heard about the sporty side of SEIZ yet? Our protective gloves have also taken hold in winter sport, thus closing a huge gap. The development of winter sport gloves had been almost at a standstill for many years. This showed in outdated cuts and overly thick and rigid materials. The need for innovative, fashionable, comfortable and functional solutions was there, in other words. Hands are the most important tool of us humans. They therefore require reliable protection, even when engaging in winter sport, where they are exposed to significant dangers, such as when dragging across the ice in a steep curve or when catching a fall on a steep slope.

The situation in the industry and fire services was entirely different. The development of protective gloves progressed rapidly in these sectors. And SEIZ was a main player in this development. We have been developing and producing protective gloves for these sectors for over 50 years after all and are known as a leading innovator. So why not take our know-how and technologies from industry and fire services and transfer them to winter sport? "Many of our findings in the areas of occupational safety and fire service are very useful in winter sport," comments Rainer Seiz, Managing Director. This can be, for instance, a certain cutting pattern that lets fingers move more easily or a modern fastener system that makes it easy to put on and remove the gloves and also provides a good fit. A highly abrasion-proof ceramic coating is also used in the winter sport sector. This transfer of knowledge to the winter sport sector was, and is, highly successful. More and more winter sport enthusiasts are relying on high-tech gloves by SEIZ. And not just hobby sportspersons. Numerous professionals also use our protective gloves. The proof is in the winter sport reporting on TV, where the name SEIZ can be regularly seen on the gloves and hats of many athletes and officials.

_Official supplier

SEIZ started its winter sport endeavours in 2015 when the company provided the equipment for the German bobsleigh, luge and skeleton athletes. In recent years, other types of sport have caught up as well. SEIZ is now also the official supplier of the German ski jumping and nordic combination (Ski Jumping segment) and German snowboarding teams. Our commitment to sport is worldwide, not limited to only Germany. We are also supplying equipment for other national teams in various winter sport disciplines. In the winter season 2019/2020, we managed to gain the trust of a national Alpine ski team in our gloves for the first time. Team Russia values the quality, safety, comfort and design of SEIZ gloves during its races. The sponsoring committment is rounded off with stylish winter hats and headbands, which are regularly seen around the tracks and hills during TV broadcasts.

Link to Sport sponsoring

WINTER SPORTS

©BSD/VIESTURS LACIS

©BSD/DIETMAR REKER

We are official supplier among others of:

DSV DEUTSCHER SKIVERBAND

SNOWBOARD GERMANY

Bob- und Schlittenverband für Deutschland

IBSF International Bobsleigh & Skeleton Federation

FIL Fédération Internationale de Luge de Course

USAGE INFORMATION

WORTH KNOWING ABOUT YOUR HAND PROTECTION

By purchasing our gloves, you have decided to buy a product with first-class protection capabilities. Selected materials and meticulous workmanship ensure a long service life, safe protection and greatest comfort when worn. We would like to mention a few points that must be observed in connection with the product-specific details on the label.

GENERAL NOTE

Before using the gloves, please check whether they correspond to the risks that your activity involves. In many fields of activity, the deployment of different models that ideally meet the respective requirements is advisable.

STANDARD

CATEGORY I – LOW RISK

This category includes protective gloves, for which it can be assumed that the user himself can assess the effectiveness against low risks and can be aware of this in good time without any risk. For example: Gloves for gardening, protective gloves for slight cleaning agents, protection against temperatures up to 50 °C.

CATEGORY II – MEDIUM RISK

Category II includes all gloves that cannot be allocated to category I nor to category III. Protective gloves of this category mostly do not protect against chemical, bacteriological, electrostatic and thermal risks. Special protective properties can be found on the label and in the manufacturer's information. Examples: Cut-resistant gloves, THL gloves to EN 388.

CATEGORY III – HIGH RISK

Category III includes complex gloves that should protect against deadly hazards or serious and irreversible damage to health. It can be assumed that the user cannot be aware of the immediate effect of the hazard in good time. Examples: Firefighting gloves to EN 659, chemical protection gloves.

Gloves of category II and III are indicated by pictograms according to their intended purpose. The values of the performance levels can be found on the sewn-in label. We will not go into more detail here regarding the labelling of chemical protective gloves owing to the complexity.

Mechanical risks		
EN 388  ABCDEF	A	Abrasion resistance (0 - 4)
	B	Cut resistance (0 - 5)
	C	Tear resistance (0 - 4)
	D	Puncture resistance (0 - 4)
	E	Cut resistance to ISO 13997 (A - F)
	F	Optional: protection against impact (P)

Thermal risks		
EN 407  FGHIJK	F	Burning behaviour (0 - 4)
	G	Contact heat (0 - 4)
	H	Convective heat (0 - 4)
	I	Radiant heat (0 - 4)
	J	Beadlets of sprayed molten metal (0 - 4)
	K	Large quantities of molten metal (0 - 4)

EN 659

Pictogram for firefighting gloves

Pictogram for wild fire gloves

COMPONENTS

SEIZ protective gloves are made of high quality materials. They do not contain any substances that are known to cause allergies. Immersed protective gloves could contain components which may possibly cause skin irritations. In such cases, contact a doctor immediately.

STORAGE

Protective gloves must be stored in an area that is protected against intensive sunlight, dust, dirt and moisture. UV light in particular can cause discolorations of gloves with parts consisting of KEVLAR®. These do not have any negative impact on the effectiveness of the gloves, however. Storage near ozone sources or naked flames should be avoided. The usability of the protective gloves is not impaired by ageing. Any deviations from this are indicated accordingly.

HANDLING

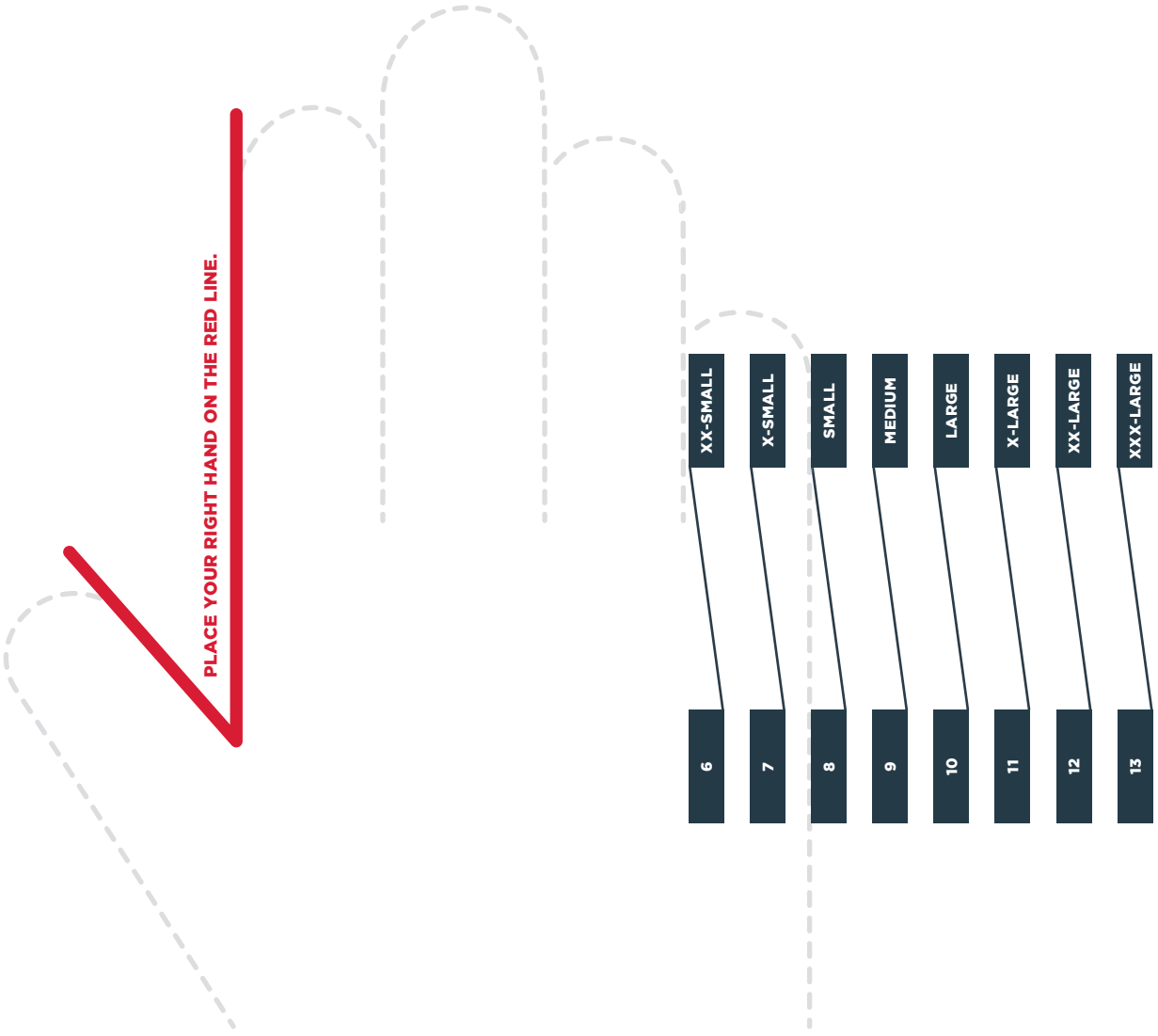
To remove the gloves, hold them at the fingertips. When doing so, make sure that your hands do not come into contact with any impurities.

Protective gloves must be checked for damage before use. Damaged gloves or arm guards must be replaced. Heavily soiled gloves or gloves that have come into contact with aggressive agents must be cleaned or replaced. The liquid density is guaranteed provided that the membrane is undamaged.

CHECK YOUR SIZE

DETERMINE YOUR HAND SIZE

For perfect fitting gloves and therefore maximum safety, length and circumferential dimensions must match those of an individual's hand as exactly as possible. The following scale serves as an aid for determining the size and provides a reference point. The glove size may vary, depending on the cut of the particular model.



DISCLAIMER

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SEIZ
seizgloves
SeizJackJo

LAYOUT AND DESIGN

Karolin Kraut
karolin-kraut.de

PHOTOS

SEIZ Technical Gloves GmbH
Page 8/9: Michael Rauch Photographie
Page 34/35: Michael Rauch Photographie
Page 57: Fire & Rescue Service GmbH & Co KG
Page 75: Viesturs Lacis
Page 75: Dietmar Reker

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SEIZ