

PRODUCT INFORMATION

8064/8068 SIGA PBI 5F
8068/8069 SIGA-E PBI 5F

eska[®]

GLOVE REVOLUTION SINCE 1912

ESKA Lederhandschuhfabrik Ges.m.b.H & Co. KG
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AN AFFAIR OF THE HEART.

Firefighters such as yourself regularly save human lives in the line of duty. They are selfless, courageous, and deserve the best protection for their hands. Strictly tested premium raw materials, which are exclusively from Europe, and our 110 years of expertise are the basis for producing our high-quality products. With long product life cycles, we are focusing on sustainability. These principles correspond exactly to our DNA.



Managing director in the fourth generation,
Paul Herbert Loos

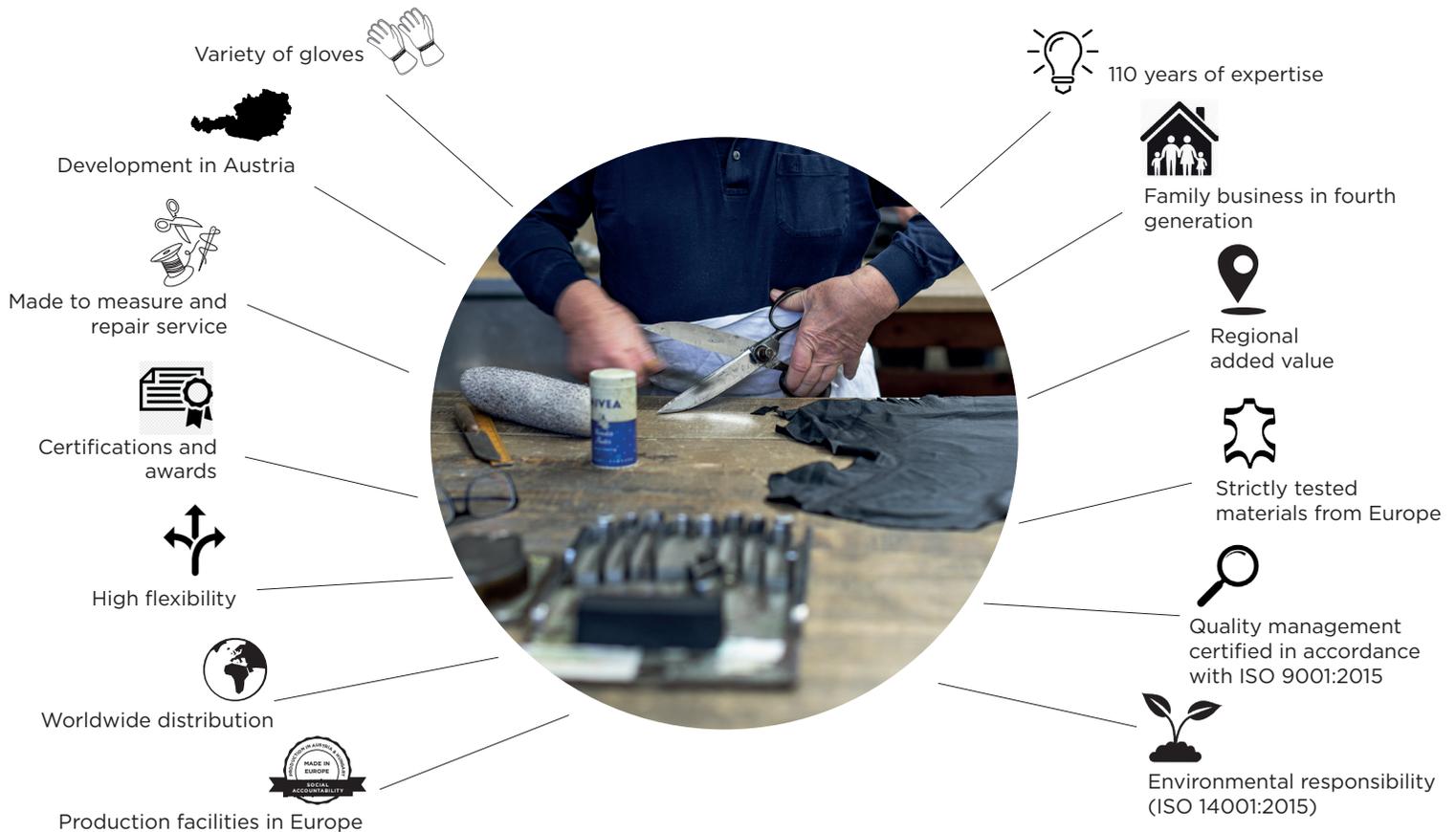
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Protecting your hands is our top priority and is never left to chance.

- Paul Loos jun.



OUR HANDWRITING. SINCE 1912.



SIGA PBI 5F vs. SIGA PBI PLUS 5★

The revolution is in the detail.

The best way to predict the future is to create it.

Since 1912, we have focused on creating new innovations combined with the best possible protection for your hands and advanced developments - with the idea of always being one step ahead. Hands are an elementary part of our existence, which is why we see it as our mission to protect them from hazards, injuries, heat, moisture or cold. Protective gloves are part of a firefighter's personal equipment and are therefore essential for their daily firefighting activities and technical assistance. As a part of our product development processes, it is especially important to us that all gloves are put through their paces in realistic conditions before they are put on the market and that all input from firefighters is incorporated into new developments.

The new Siga PBI 5F at a glance.

- Retention of excellent fit and dexterity
- Improved backhand material
- After a pretreatment of 20 washes at 60°C the thermally and mechanically maximal levels according to EN 659 remain unchanged
- Revolutionary cut-resistant lining (palm: 5F / backhand: cut resistance level 4)
- Improved heat performance
- New ESKA reflex logo

REVOLUTION 2020



SIGA PBI 5F 8064/B SIGA PBI 5F 8068/B

SIGA PBI 5F 8064/B | 8068/B

- **Revolutionary cut-resistant lining** made of Kevlar®/stainless steel/LCP (class 5F)
- All **mechanical and thermal maximum values in new condition** were certified in new condition and after pretreatment of 20 washes at 60° C (according to ISO 6330 6N+A)
- **GORE® CROSSTECH® insert + Gore Grip** technology protects against wet, chemicals, oil, fuel, blood and viruses with, at the same time, maximum breathability
- **8068/B:** New ergonomical knuckle protector

EN 659:2003 + A1:2008



3 5 4 3 F P

REVOLUTION 2015



SIGA PBI PLUS 5★ 8064/A

- **Cut-resistant lining** made of Kevlar® with steel fibreglass and silver threads
- **Nomex®/Kevlar® with PROmarble coating**

EN 659:2003 + A1:2008



3 4 4 3 F P

8068/B SIGA PBI 5F



CERTIFICATION

EN 659:2003+A1:2008



EN 388:2016

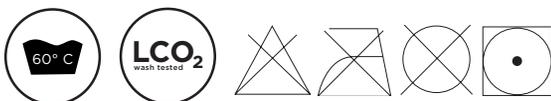


All mechanical and thermal maximum values are achieved

after pretreatment of 20 washes at 60 °C

(washing procedure in accordance with ISO 6330 6N+A)

CARE INSTRUCTIONS



MODEL AND COLOUR VARIANTS

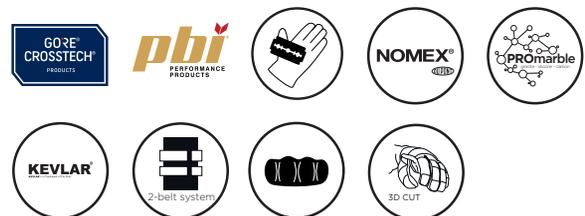
8064/B Siga PBI 5F (long cuff)

8065/B Siga-E PBI 5F (knitted cuff)

8068/B Siga PBI 5F (long cuff)

8069/B Siga-E PBI 5F (knitted cuff)

MATERIALS | TECHNOLOGIES



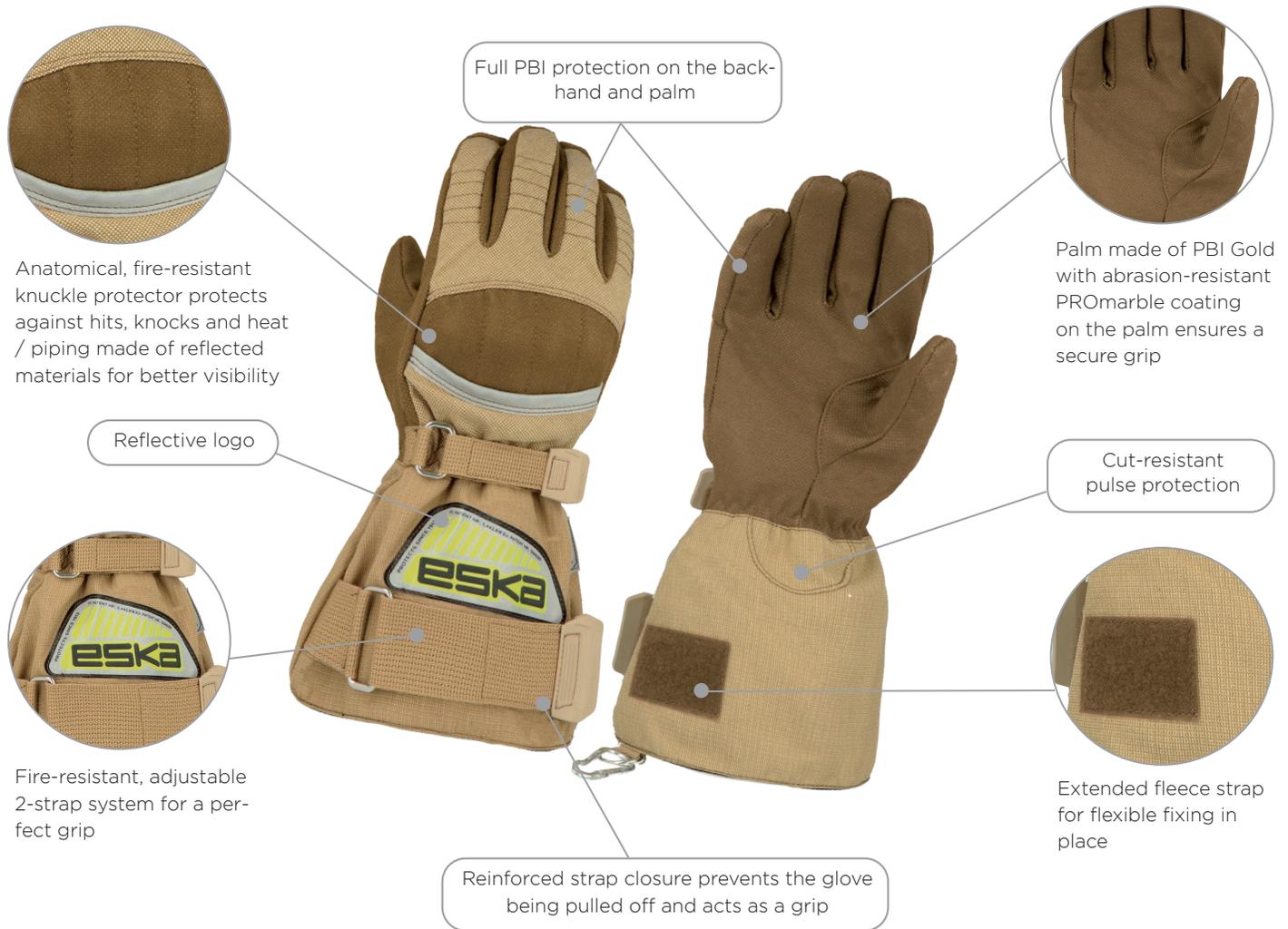
SPECIAL FEATURES AT A GLANCE

- Full PBI protection on the backhand and palm
- 3D cutting shape for an outstanding fit and freedom of movement
- Permanently waterproof
- Inseparable, patented attachment of the inner lining and insert with the shell
- Highest cutting protection level 5F

SIZES

XXS	XS	S	M	L	XL	XXL	3XL
5	6	7	8	9	10	11	12

8064/B SIGA PBI 5F



CERTIFICATION

EN 659:2003+A1:2008

EN 388:2016



CE 0534



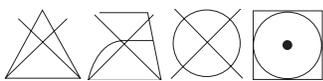
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8064 / 8068 SIGA PBI 5F



8064/B SIGA PBI 5F

LONG CUFF

8065/B SIGA-E PBI 5F

KNITTED CUFF



8068/B SIGA PBI 5F

LONG CUFF

8069/B SIGA-E PBI 5F

KNITTED CUFF

The PBI firefighting glove SIGA PBI 5F is the only one on the market with full PBI protection on the backhand and palm. The glove will impress you with the best heat and flame resistance as well as outstanding freedom of movement. The durable PBI fibre on the backhand and palm offers the highest thermal protection and comfort and makes the glove extremely light. The anatomical, fire-resistant knuckle protector ensures absolute shock and impact protection. Additionally, it protects the backhand against exposure to heat and injuries. A completely new ergonomical knuckle protector is incorporated into the 8068/8069 models. The abrasion-resistant PBI Gold palm with PROmarble coating provides maximum protection and grip on smooth and wet surfaces. The flame-resistant and cut-resistant lining made of Kevlar®/inox/LCP protects the firefighter against pointed objects and sharp edges (highest level 5F). Thanks to the GORE® CROSSTECH® insert + Gore Grip technology, Siga PBI 5F provides a safe barrier against water, chemicals, oil, fuel, blood and viruses and also offers maximum breathability. The inner lining is incorporated and the insert is attached and connected to the outer shell in line with the proven method patented by ESKA in order to permanently prevent the lining from being inadvertently pulled out. The sophisticated, adjustable two-strap system is used to ensure secure fixing, which enables the glove to be worn over a jacket (Siga PBI 5F, long cuff) or under a jacket (Siga-E PBI 5F, knitted cuff). All mechanical and thermal maximum values were achieved both in a new condition and after pretreatment consisting of 20 washes at 60 °C. The anatomical, layered 3D cut is adjusted to the natural posture of our hands, to guarantee the best possible fit and freedom of movement. We use only European materials, which undergo strict quality control in Austria. The gloves for fire-fighters are available in versions with a long cuff (Siga PBI 5F model) or with a 100% Kevlar® knitted cuff (Siga-E PBI 5F model).

DETAILS

■ Material

Backhand: High-performance fibre PBI Y55 Powershell, knuckle protector with PBI Gold and PROmarble coating

Palm: PBI Gold with PROmarble coating (granite-silicone-carbon) for extremely high-performance protection and maximum grip

■ Lining

Backhand: Kevlar® (multilayer structure for better heat- and cut protection performance)

Palm: Revolutionary cut-resistant lining made of Kevlar®/Inox/LCP

■ **Insert:** GORE® CROSSTECH® insert + Gore Grip technology protects against water, chemicals, oil, fuel, blood and viruses and also offers maximum breathability

■ **Sizes:** 5 (XXS) - 12 (XXXL) + Made to measure (www.eskagloves.com)

CERTIFICATIONS

EN 659:2003+A1:2008



EN 388:2016



Firefighters' protective gloves

Mechanical risks

When gloves according to EN 659:2003 + A1:2008 are labelled as washable, it is mandatory for tests on heat and mechanical risks to be carried out following pretreatment with wash cycles. The maximum tested number of washes must be indicated in the user information, as well as on the label. Gloves which are certified without pretreatment with wash cycles must be labelled as not washable. In practice, this means that the washing symbols need to be crossed out. ESKA's aim is for fabric gloves for firefighters to maintain their mechanical and thermal maximum values after 20 washes at 60 °C.

All mechanical and thermal maximum values are achieved after pretreatment of

20 washes at 60 °C (washing process according to ISO 6330 6N+A)

TEST	REQUIREMENT	VALUES ACHIEVED IN NEW CONDITION	VALUES ACHIEVED AFTER 20 WASHES
EN 388:2016 Abrasion	min. performance level 3	performance level 3	performance level 3
EN 388:2016 Cut resistance backhand	min. performance level 2	performance level 5	performance level 5
EN 388:2016 Cut resistance palm	min. performance level 2	performance level 5	performance level 4
EN 388:2016 Tear resistance	min. performance level 3	performance level 4	performance level 4
EN 388:2016 Puncture resistance	min. performance level 3	performance level 3	performance level 3
EN 388:2016 Cut resistance TDM	-	performance level	performance level F
EN 407:2020 Burning behaviour	min. performance level 4	performance level 4	performance level 4
EN ISO 9151 Flame resistance	min. 13 S.	28	29,2
EN ISO 6942 Resistance to heat	min. 20 S.	35,2	39,1
EN 702 Contact heat	min. 10 S.	14,4	14
ISO 17493 Glove heat shrinkage	≤ 5 %	± 0,0 %	± 0,0 %
EN 21420:2020 Dexterity	min. performance level 1	performance level 4	performance level 4
EN ISO 13935-2 Seam strength	min. 350 N.	fulfilled	fulfilled
EN 21420:2020 Time to take off the gloves	≤ 3 S.	1	1
EN ISO6530 Penetration by liquid chemicals	no penetration	fulfilled	fulfilled
Resistance to water penetration EN 20811			>100 kPa
Water resistance ISO 15383			waterproof

1. In the past, gloves used to be certified without going through wash cycles. Regardless of this, only the fit was assessed after washing, without any further test of the mechanical and thermal values.
2. The EN 659 standard does not fundamentally call for washing, **but gloves that are certified without pretreatment in the form of wash cycles must be labelled as not washable.** Manufacturers who have not certified their gloves after washing cannot bear liability for injuries or guarantee the performance levels after the gloves have been washed. All ESKA gloves for firefighters are certified after pretreatment of 20 washes. This is why we bear liability and guarantee not only the durability of our gloves, but also that all thermal and mechanical values will be maintained after up to 20 washes at 60 °C.

Proper glove care forms part of hygiene measures for firefighters .



Our standard is 20 washes

To guarantee the longest possible wearing period of ESKA gloves, correct handling and care are of great importance. All ESKA fabric protective gloves for firefighters are **certified in new condition and after pre-treatment of 20 washes at 60° C** to guarantee that mechanical and thermal properties in new conditions are maintained.

Proper care

All ESKA protective gloves provide information on how to wash them correctly in the form of care symbols on the labels. In a gentle wash programme, fabric gloves for firefighters can be washed at 60 °C and leather gloves for firefighters at 30 °C. Protective gloves for firefighters must be washed separately to prevent foreign materials (such as lint) from attaching to their surface. To avoid cross-contamination, for example between work clothes and sports clothes, protective gloves must always be washed separately.

Wash preparation

Before machine washing, remove snap hooks and fully close all the fasteners, in particular hook-and-loop fasteners. Failure to do so may lead to abrasion and damage to other fabrics in the washing machine.

Suitable detergent

Use phosphate-free mild detergent without fabric softener, optical brightener, stain remover and without bleach. Failure to do so may result in bleaching, fibre damage or damage to the coating. Fabric gloves with membrane must not be spun, or may only be spun gently for a short period of time.

Tumble dryer or air drying

After washing, the fabric gloves for firefighters can be dried in a tumble dryer (gentle drying) or drying cabinet.

If you are not using a tumble dryer, return the gloves to their original shape by putting them on when they are still wet. Afterwards hang gloves by the fingers or leave them to air-dry on equipment designed for this purpose. Avoid heat sources such as radiators or ovens as these may damage the materials.



Cleaning with LCO2 uses liquid carbon dioxide instead of water and does not get the gloves wet. When pressurised, the odourless gas liquefies and soaks up any dirt particles like a sponge. After a while, the carbon dioxide is released.

Now in gaseous form again, it is stored in a tank and reused in the next wash. During the conversion from a liquid to gaseous state, all dirt particles fall off. The process is similar to shaking out a dust cloth.

Decontamination and protection against particles.

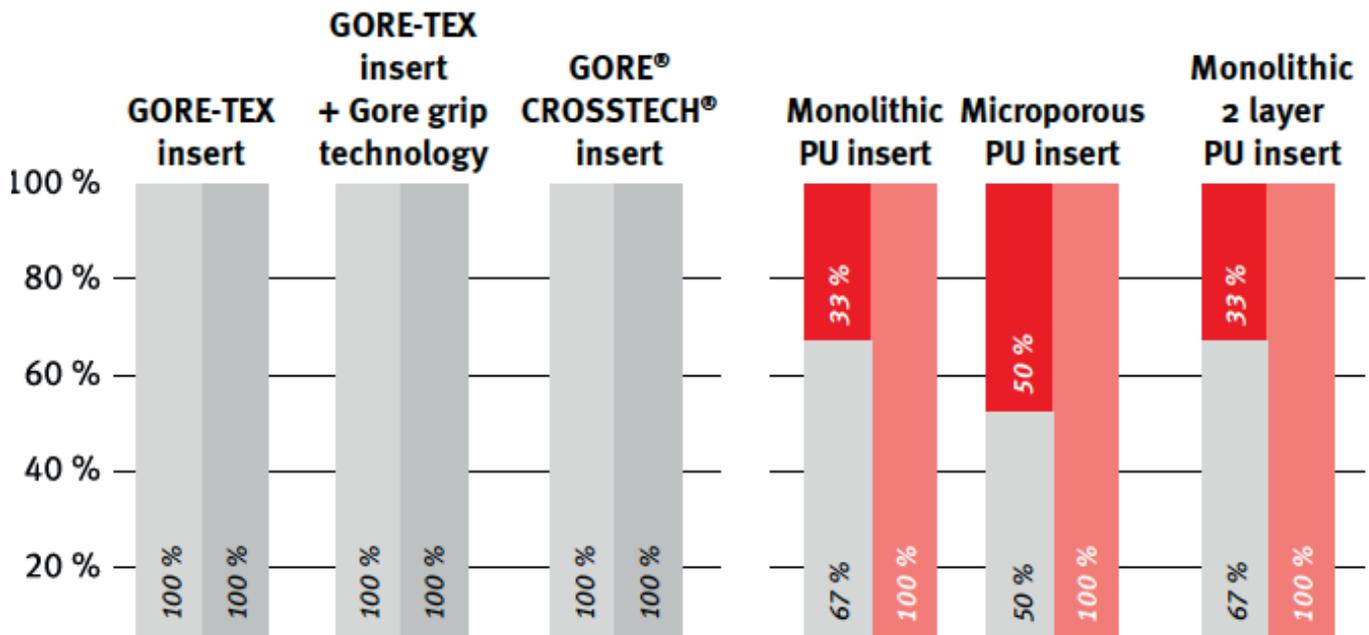
Decontamination for lasting protection

During firefighting activities, toxic and carcinogenic substances may be absorbed through unprotected airways or the skin. This is why high-quality protective clothing and hygiene measures are so important. More than 90% of all infections are spread by the hands. The gloves and clothes should be packed away dust-tight immediately after firefighting activities and then cleaned professionally. Furthermore, hygienic hand cleaning with sanitiser is strictly necessary after firefighting.

Particle filter

Improperly cleaned protective clothing without an integrated liquid barrier that can also trap particles increases the risk of these solid materials getting through to the wearer's skin. The GORE-TEX and GORE CROSSTECH inserts in our gloves for firefighters act as particle filters and achieve a solid material deposition rate of up to 99% (tested according to NFPA 1971 standard, 2018 edition, Particulate Protective Hood; particle size 0.1-1.0 Qm).

Furthermore, GORE-TEX and CROSSTECH inserts remain permanently waterproof and highly breathable even after being washed many times (EN 20811, ISO 11092).



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.

Source: Gore Glove Laboratory, 2013

5 cycles	Waterproof	Leaking
10 cycles	Waterproof	Leaking



**Certificate to EU type-examination certificate
VNBP 080575
on Personal Protective Equipment**

(Order VN620 120679.7)

Issued to (manufacturer)

**ESKA Lederhandschuhfabrik Ges.m.b.H & Co. KG
A-4600 Wels/Thalheim; Am Thalbach 2**

Based on the documents submitted and the type examination carried out this is to certify, that the following personal protective equipment (PPE)

Fehler! Verweisquelle konnte nicht gefunden werden.

and the associated technical documents (including user information and labelling), corresponds to the requirements of PPE Regulation (EU) 2016/425 as currently in force and complies with the applicable essential health and safety requirements. The PPE fulfils the requirements for

Protective glove for firefighting

according to

EN 659:2003+A1:2008 and EN 388:2016+A1:2018*) performance level 3 5 4 3 F P

This new PPE will be assigned to **category III**

User information and labelling provide information about the properties of the PPE.
This type examination certificate stays valid until end of February 2026.

Dipl.-HTL-Ing. Marion Pfeiler

OETI - Institut fuer Oekologie, Technik und Innovation GmbH
Notified Body No. NB 0534
Vienna, 09.05.2022

*) non-harmonized standard



GLOVE REVOLUTION SINCE 1912

EU – DECLARATION OF CONFORMITY

Subject of the declaration is following personal protective equipment:

8064/B SIGA PBI 5F

8065/B SIGA PBI-E 5F

8068/B SIGA PBI 5F

8069/B SIGA PBI-E 5F

The manufacturer

**ESKA Lederhandschuhfabrik Ges.m.b.H. & Co KG
Am Thalbach 2, 4600 Wels**

This declaration is in the sole responsibility of the manufacturer

Subject of this declaration (above mentioned PPE) is according to relating Union harmonisation legislation:

Regulation (EU) 2016/425 Personal Protective Equipment

Conformity is achieved by complying with the applicable requirements of the following documents

EN 659:2003+A1: 2008 Fire Fighting Protective Glove

EN 420:2003/ *EN ISO 21420:2020 Protective gloves, general requirements

**EN 388:2016/ *EN 388:2016+A1:2018 Protective gloves against mechanical risks
(*non-harmonized standard)**

The Notified Body

**Institution of ecology, technology and innovation, ÖTI
A-1050 Vienna, Spengergasse 20
Identification number: 0534**

has carried out the EU type examination (modul B) and issued the type examination:

EU Type Examination No. 080575

The PPE is subject to the following conformity assessment procedure:

Conformity with the type based on internal production control with supervised product checks at irregular intervals (module C2) under supervision of the notified body:

**Institution of ecology, technology and innovation, ÖTI
A-1050 Vienna, Spengergasse 20
Identification number: 0534**

Signed in and for the name of:

**ESKA Lederhandschuhfabrik Ges.m.b.H & Co KG
Am Thalbach 2
4600 Wels
Wels, 12.08.2021
CEO
Paul Herbert Loos**

Place and date of the issue:

Function:

Name:

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P R O F E S S I O N A L S P O R T S I U X U R Y