

# INSTRUCTIONS FOR USE

## ELK DEFENDER 2.0

### GUIDE INFORMATION FOR USE

#### MODEL: ELK DEFENDER 2.0 long



#### MODEL: ELK DEFENDER 2.0 short



#### DESCRIPTION

The ELK DEFENDER 2.0 provides firefighters protection during their daily standard tasks as well as during fire fighting with extinguishing agents and in rescue operations. The gloves are not intended for the deliberate use with liquid chemicals, but offer protection against accidental contact with chemicals. The gloves are available in sizes 5 - 14.

#### APPLICATION

1. The gloves should be used according to its purpose.
2. Before every use, the gloves should be checked for possible damage.
3. Damaged gloves reduce the protective properties. The gloves should be kept clean.
4. Gloves that have become wet must not be dried by means of heating equipment.
5. Improper use of gloves can cause serious injuries or burns. In this case, the manufacturer assumes no responsibility.

As a user of the gloves, please observe the following instructions:

The gloves are only a part of the protective equipment for use. They protect the hands against heat and fire. However, they must not come into contact with open flames. At the same time, the gloves protect against mechanical risks such as abrasion, cuts, tearing and punctures.

In cases where there is a risk of getting caught in moving machine parts, gloves should not be worn.

#### TECHNICAL DATA

		REQUEST	RESULT
Abrasion resistance	Backhand	3	3
	Palm		4
Cut resistance	Backhand	2	4
	Palm		5
Tear resistance	Backhand	3	4
	Palm		3
Stitch Strength	Backhand / Palm	3	3
Dexterity		1	3
Convective heat		min. 13.0s	pass
Radiant heat		min. 22.0s	pass
Contact heat, dry 250°		min. 10,0s	pass
Contact heat, wet 250°		min. 10,0s	pass
Heat shrinkage		<_5%	pass
Weld strength		min. 350 N	pass
Take off glove, dry		<_3s	pass
Take off glove, wet		<_3s	pass
Chemical Penetration		no penetration	pass

#### FIREFIGHTER PROTECTIVE GLOVE ACCORDING TO EN 659:2003+A1:2008

- Hand piece made of specially tanned cowhide and elk leather
  - Lining material made of aramid fibers: 50% aramid/ 34% polyester/16% glass fiber
  - Thermal insulation: Panox (dark grey needle fleece)
  - PU membrane as a moisture barrier (waterproof, breathable)
  - Flame-resistant knitted cuff, total length approx. 32 cm (size 10) (alternative: extra long leather cuff, for size 10 total length of the glove at least 40 cm from the tip of the middle finger)
  - Leather loop as a tightening aid and for fastening to the waist belt
- The protective gloves meet the requirements of the European PPE re-gulation (EU) 2016/425 and protect against risks that are covered by the standards on which the certification is based. Applied standards are EN 659:2003+A1:2008 (protective gloves for firefighters) and EN 420:2003+A1:2009

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### CERTIFICATION

Notified certification body for personal protective equipment:  
(PSA): CENTEXBEL - TEXTILE COMPETENCE CENTRE  
Technologiepark 7  
BE-9052 Ghent / Belgium  
Notified body 0493  
Test report no. 049/2016/0686.02

### GLOVE SIZES

The glove sizes correspond to the application.  
The gloves cover the hand and, depending on the cuff length, parts of the forearm.

### STORAGE

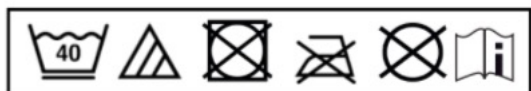
Store in a ventilated room, preferably protected from light and dry

### LIABILITY

We accept no liability for damage caused by the non-targeted use of the PPE or by any use that does not comply 100% with the instructions for use given below. Please contact the manufacturer for further information regarding care instructions, repair and safe disposal methods.

### WASH INSTRUCTIONS

Certified washability at 40°C (no impairment of the properties according to EN 659 - up to 25 washes) Impregnation of the gloves after every 5th wash recommended!



· according to washing expert opinion Lars Reuter (Master Textile Cleaner, Hamburg)

### DECLARATION OF CONFORMITY

The declaration of conformity for this protective glove can be found at:  
[www.penkert.com](http://www.penkert.com)

### CLEANING INSTRUCTIONS

Please take the following from the sewn-in identification label

### GENERAL INFORMATION

The results stated in the test report are based on laboratory tests carried out exclusively on unused gloves. Transferring the results to gloves after care treatment requires appropriate tests to be carried out.

The glove offers protection against puncturing with pointed objects in the sense of DIN EN 388:2016, but there is no protection against pointed objects such as injection needles.

The glove offers some protection against accidental contact with chemicals, but is not a protective glove against chemicals and microorganisms in the sense of DIN EN 374-1:2016+A1:2018.

We also point out that firefighter gloves should fit with the sleeves of the protective clothing so that the skin is not exposed when the arms are stretched out.

### CHECK

An optical check for dirt and damage is essential. Damaged gloves must be discarded. The expiration time depends on the degree of wear, use and area of application.

The clothing has a shelf life of at least 5 years from the date of manufacture. Non-compliance with the notes/regulations listed in this manual and individual stress during use may reduce the durability of PPE.

### PICTOGRAMS

EN 420:2003+A1:2009 EN 659:2003+A1:2008



### SIZE MARKING

EXAMPLE: size 10 black



size	color
5	pink
6	orange
7	green
8	blue
9	red
10	black
11	light brown
12	purple
13	yellow

