

## EPISHINE RANGE

### HIGH VISIBILITY PERSONAL PROTECTIVE CLOTHING APPROVED IN ACCORDANCE WITH THE REGULATION (EU) 2016/425 AND COMPLIANT WITH THE EN ISO 20471 (2013) STANDARD

#### MANUFACTURER'S INSTRUCTION LEAFLET

EPISHINE PC jacket and EPISHINE PC trousers High visibility: class 2

#### DESCRIPTION

This garment is a high visibility warning Personal Protective Equipment. It complies with the EN ISO 13688 (2013) standard: General requirements and with the EN ISO 20471 (2013) standard: high visibility warning clothing.

It has undergone a type examination and has been certified compliant with the European Regulation 2016/425 personal protective equipment by a Notified Body, the details of which are given at the end of this leaflet.

#### USE

- Before use, the protective garment, whether new or old, should be carefully checked for any damage.
- The user must try the garment to make sure that it is adapted to his size and that it allows him to work without any constraint in all the postures he will have to take while doing his job.
- This equipment should be worn closed from top to bottom. For the wearer's visibility to be in compliance with the standard, the whole surface of the fluorescent material and reflective bands should be visible and should not therefore be covered by any equipment that does not meet the EN ISO 20471 or EN 471 standard.
- This garment allows the wearer to be visually signalled both in daylight conditions and in the light of headlamps during the night.
- Any alterations to the equipment such as, for example: the length of the trousers, the addition of accessories such as badges, logos, inscriptions etc. can only be made by ELIS, within the limit of the possibilities authorized by the regulations.
- After analysis of the risk, if it is shown that the protection on the worksite can be brought by the jacket or the trousers worn alone, only the part covered by the garment will be protected.

#### WARNING

This equipment is not a garment offering protection against the rain. If such protection is required, it should be offered by other clothing compliant with the standard EN 343 + A1 for example. More generally, it should not be used outside the fields of use established by the manufacturer. This garment is not intended for protection against heat or flames, other clothing can be used that meet standards EN ISO 11612 or EN ISO 14116 for example.

To wear this equipment does not mean that the basic rules of safety and prudence do not have to be complied with.

#### EXPLANATION OF THE MARKINGS AND PERFORMANCE LEVELS

The marking of high visibility warning clothing is established as follows depending on the quantity of fluorescent and reflective material present on the garment:



x: Class of garment in accordance with the table below

Minimum surfaces in M <sup>2</sup>	Class 3	Class 2	Class 1
Base material	0.80	0.50	0.14
Retro reflective material	0.20	0.13	0.10
Material with combined characteristics	–	–	0.20

The jacket and trousers worn separately are class 2.



EN ISO 20471 : 2013

When worn together the jacket and trousers are class 3.



EN ISO 20471 : 2013

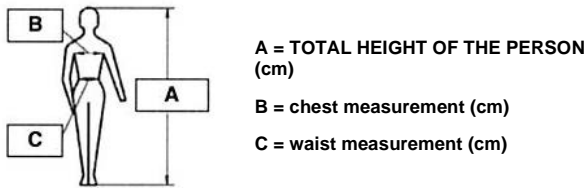
Test results obtained in accordance with the EN ISO 20471 standard for the materials used

Tests	Fluorescent materials	Contrast materials
Like-new colour requirement	Compliant	N/A
Colour requirement after exposure to light* and after 5 industrial washes	Compliant	N/A
Colour fastness to rubbing	Compliant	Compliant
Colour fastness to perspiration	Compliant	Compliant
Colour fastness after industrial washes at 75°C	Compliant	Compliant
Colour fastness after ironing with a hot iron at 150°C	Compliant	Compliant
Dimensional stability	Compliant	Compliant
Tensile strength	Compliant	Compliant
Water vapour resistance	Compliant	Compliant

\*When the base material is fluorescent red, it enters the fluorescent orange-red zone after exposure to light.

### INDICATION OF THE SIZE

Sizes are determined in accordance with EN ISO 13688: 2013 by placing the following size pictograph on the garment:



ELIS size equivalence / Size range – JACKET		
Elis size	Chest size	Height
0	80-88	156-196
1	88-96	156-196
2	96-104	156-196
3	104-112	156-196
4	112-120	156-196
5	118-130	164-204
6	126-138	164-204
7	134-146	164-204
8	142-154	164-204
9	150-162	164-204

ELIS size equivalence / Size range – TROUSERS		
Elis size	Waist size	Height
0	68-76	156-196
1	76-84	156-196
2	84-92	156-196
3	92-100	156-196
4	100-108	156-196
5	107-118	156-196
6	114-126	164-204
7	122-134	164-204
8	130-142	164-204
9	138-150	164-204

### CARE

The frequency with which the garments should be washed will be determined depending on how dirty they are, which varies depending on working conditions. So as to avoid any damage during laundering, zips and other Velcro fasteners should be carefully closed.

The care instructions mentioned on the label attached to the inside of the garment should be strictly complied with. The reflective bands have been tested for up to 50 washes. The effective life of the garment depends on its use, its care, its storage conditions, etc...

#### Care symbols

	Washing at 75°C maximum
	Do not bleach
	Tumble dry permitted
	Iron at 150°C maximum
	Do not dry-clean

You will find below the meaning of the various care symbols:

MEANING OF THE CARE SYMBOLS				
WASHING	Maximum temperature	Mechanical action	Rinsing	Drying
	40°	hand wash	normal	precautions
	30°	normal	normal	normal
	30°	reduced	normal	reduced
	30°	much reduced	normal	normal
	40°	normal	normal	normal
	40°	reduced	at decreasing temperature	reduced
	40°	much reduced	normal	normal
	60°	normal	normal	normal
	60°	reduced	at decreasing temperature	reduced
	95°	normal	normal	normal
	95°	reduced	at decreasing temperature	reduced
				do not wash

BLEACHING	Treatment	IRONING		TUMBLE DRYING	
		Temperature	Temperature	Temperature	Temperature
	Any bleach allowed		Cool: 110° warm: 150°		Low heat
	Only oxygen bleach allowed		hot: 200° do not iron or steam		Medium heat
	Do not bleach		Do not steam iron textiles containing acrylic or polyester fibres WARNING: when ironing at a low heat (110°) the use of steam presents certain risks		Do not tumble dry
PROFESSIONAL CLEANING	Solvent or process	Process	Self-service dry cleaning		
	all solvents such as perchloroethylene, excepting trichloroethylene, exclusively petroleum products (e.g. mineral spirits)	normal	allowed		
	Wet clean	normal	no		
Do not wet clean WARNING: For textiles that are sensitive to dry cleaning or if there are restrictive conditions: reduced load, no water added, high level of solvent, reduction of dry cleaning time and drying temperature. Be careful with pre-spotting.					

### COMPOSITION

Main material:  
85% Polyester 15% Cotton

Contrast material:  
65% Polyester 35% Cotton

These garments do not contain substances at a level known or suspected to have harmful effects on the user's health under foreseeable conditions of use. Their design does not cause any irritation or discomfort to the wearer.

Each garment should be stored clean, flat, folded or hung up on a coat-hanger in a dry place away from the light. The items accompanied by their instruction leaflet are delivered folded in cardboard boxes.

This protective garment should be regularly checked for damage or wear which would no longer allow it to offer the protection for which it was designed. If necessary, the protective garment will be replaced or repaired under conditions allowing it to maintain compliance with the standards applicable to it.

Number and details of the Notified Body having carried out the EU type Examination (article 19: regulation (EU) 2016/425)

Address:

**FIQH** : Finnish Institute of Occupational Health, ON n°0403  
 Topeliuksenkatu, 41 b FIN-00250 Helsinki, Finland  
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For any further information, contact the manufacturer:  
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