

# EPISHINE RANGE HIGH VISIBILITY PERSONAL PROTECTIVE CLOTHING APPROVED IN ACCORDANCE WITH THE EUROPEAN DIRECTIVE 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 Directive 89/686 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

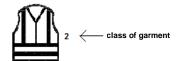
The marking of high visibility warning clothing is established as follows depending on the quantity of fluorescent and reflective material present on the garment:



x: Class of garment in accordance with the table below

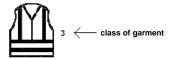
Minimum surfaces in M <sup>2</sup>	Class 3	Class 2	Class 1
Base material	0.80	0.50	0.14
Retro reflective material	0.20	0.13	0.10
Material with combined charact	eristics –	-	0.20

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

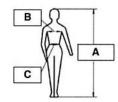
Tests	Fluorescent materials	Contrast materials
Like-new colour requirement	Compliant	N/A
Colour requirement after exposure to light* and after 5 industrial washes	Compliant	N/A
Colour fastness to rubbing	Compliant	Compliant
Colour fastness to perspiration	Compliant	Compliant
Colour fastness after industrial 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

<sup>\*</sup>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:



A = TOTAL HEIGHT OF THE PERSON

B = chest measurement (cm)

C = waist measurement (cm)

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 e	equivalence / Size range – TR	OUSERS
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

75"

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 SYSMBOLS					
WASHING W	Maximum temperature	Mechanical action	Rinsing	Drying		
THY.	40°	hand wash	normal	precautions		
30	30°	normal	normal	nomal		
30	30°	reduced	normal	reduced		
30	30°	much reduced	normal	normal		
40	40°	normal	normal	normal		
40	40°	reduced	at decreasing temperature	reduced		
40	40°	much reduced	nomal	normal		
60	60°	normal	normal	normal		
60	60°	reduced	at decreasing temperature	reduced		
95	95°	normal	normal	normal		
95	95°	reduced	at decreasing temperature	reduced		
$\bowtie$	do not wash					

В	LEACHING $\triangle$	П	RONING $ riangle$	TUMBLE		0	
	Treatment		Temperature	DRYING $\stackrel{\smile}{-}$			
	rreatment	$\equiv$	Cool: 110°	Temperature		ature	
$\triangle$	Any bleach allowed		warm: 150°	$\odot$	Low heat		eat
Δ	Only oxygen bleach		hot: 200°	Medium heat		heat	
<i>//</i> Δ	allowed	$\bowtie$	do not iron or steam	Do not tumble of		nble dry	
×	Do not bleach	WARNING: v	am iron textiles containing acrylic or modacylic fibres when ironing at a low heat (110*) the if steam presents certain risks.				
	DESSIONAL C	Sol	Solvent or process Proce		cess		ervice dry eaning
	P	all solvents such as perchloroethylene, excepting trichloroethylene		normal		al	lowed
	Ē	exclusively petroleum products (e.g. mineral spirits)		normal			no
	W	Wet clean		normal			no
underline = restriction on the mechanical action     and/or the temperature and/or the addition of water to the solvent     double underline = major restrictions							
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 coathanger 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 EC type Examination (article 10: directive 89/686)

Address

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For any further information, contact the manufacturer:

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