

**MANUFACTURER'S DIRECTIONS FOR USE  
INDIVIDUAL PROTECTIVE GEAR  
KNEE PROTECTION IN THE KNEELING POSITION AT WORK  
Pantalon Epirotec CP EN 14404 + A1  
Approved according to Regulation (EU) 2016/425**

**MANUFACTURER'S DIRECTIONS FOR USE**

GENERAL PROTECTION AND PERFORMANCE

The trousers, equipped with a pair of kneepads reference GEX240 inserted into the leg pockets, provide knee protection in the kneeling position at work which meets the requirements of standard EN 14404+A1:2010.

Type 1 = knee protection independent from other garments and attached around the leg

Type 2 = plastic foam or other padding inserted in pockets on the trouser legs or permanently attached to the trousers. NOTE: Type 2 knee protections on trousers may be fixed or adjustable.

The performance levels are defined by the severity of the test conditions

Level 0 = protection suitable for flat ground with no penetration resistance required.

Level 1 = protection suitable for flat ground on which objects more than 1 cm high are not a common hazard (resistance to penetration under a force of at least  $100 \pm 5$  N is required)

Level 2 = protection suitable for difficult conditions (work on broken rocks in mines and quarries - resistance to penetration under a force of at least  $250 \pm 10$  N is required)

The thick, sturdy trousers are sufficiently comfortable to be worn throughout a work day.

In addition, they offer protection against mechanical aggression which can affect the surface of the skin.

Any modifications to the uniform can only be done by the written consent of the company ELIS, in accordance with the options available in the rules.

Tests done on the garment:

The following tests were carried out in particular to verify the mechanical toughness of the fabrics

Fabric qualification tests

- Tensile strength NF EN ISO 13934-1 : warp > 120 daN – Weft > 66 daN
- Tear resistance NF EN ISO 13937-2 : warp > 2.9 daN – Weft > 4 daN
- Abrasion resistance NF EN ISO 12947-2 – 50000 cycles

Garments referred to in this specification comply with the essential health and safety requirements of European Regulation (EU) 2016/425 concerning CAT 2.

The following tests were carried out in particular to verify the compliance with the standard EN 14404+A1:2010.

Tests carried out on trousers and GEX 240 kneepads:

- Trousers + GEX 240 kneepad wearing test = compliant
- Perforation resistance of kneepads + knee fabric = 0 level
- Peak force transmitted = compliant
- Force breakdown = compliant
- Kneepad dimensions = compliant

## INSTRUCTION FOR USE and RESTRICTIONS

Working in a kneeling position is unnatural and workers may suffer from discomfort. Prolonged work in this position may lead to a risk of chronic diseases such as prepatellar bursitis and cartilage injuries due to continuous pressure on the knees.

This knee protection equipment spreads forces out evenly and prevents small hard objects and small stones on the ground from causing immediate injuries.

However, as is specified in standard EN 14404+A1: 2010, no knee protection can guarantee that workers will not suffer from medical complications if they have to stay kneeling down for hours on end. The kneepads are not suitable for difficult conditions, such as working in the kneeling position on broken rocks in mines and quarries or for very long periods of time without frequently standing up.

Protection is obtained only when the pads are correctly positioned in the pockets provided in the garment. Only GEX240 pads must be used with these trousers.

The temperature of the surface in contact with the knees must not exceed 50°C. Contamination, alteration or incorrect use of the protective equipment will considerably reduce its performances. Any change in environmental conditions (temperature, light, humidity, etc.) could significantly reduce protection performances.

The materials and components constituting the garment do not contain substances at levels at which they are known to have or suspected of having harmful effects on user hygiene or health under foreseeable condition of use. As far as is known at present, this article does not contain toxic, carcinogenic, mutagenic or potentially allergy-inducing products.

To protect yourself in the best way when working, the garment must always be worn closed. When wearing safety clothing, you must still remember that your safety cannot be guaranteed in all circumstances.

A regular check of the clothing is recommended in order to prevent damage or evidence of ageing. If necessary, the protective clothing can be repaired by Elis or replaced.

This protective equipment is not a medical device.  
This protective equipment is not sports equipment.  
This protective equipment cannot provide total protection against injuries.  
The protective equipment must be kept away from naked flames.

Despite the possible presence of reflective strips on the garment, it does not visually signal the wearer's presence at night in car headlights, or as defined in standard EN ISO 20471 (high-visibility clothing for professional use). In certain cases, depending on the risk analysis, it may be necessary to wear high-visibility clothing complying with standard EN ISO 20471 (e.g. jacket, vest, etc.) in addition to this garment.

## STORING THE PPE

It must be stored clean, folded flat or hung on a hanger in dry, well-ventilated place away from direct sunlight. It must never be stored when dirty.  
In the end, the clothing can be recycled as textile waste.

### COMPOSITION

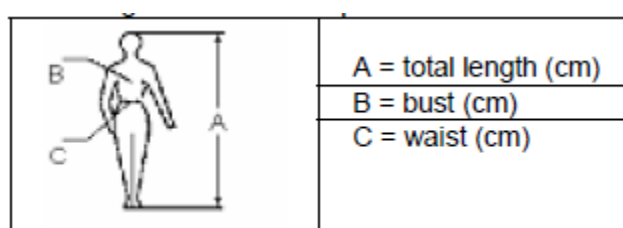
Main trouser material: See label on garment  
 Knee pocket material: 100% polyamide  
 Kneepads: 100% polyethylene

### PACKAGING

Supplied on hanger

### SIZE MARKING

The sizing indicated is compliant to the norm EN340 : 2003, with exception of sizes, as follows:



The table below indicates the correspondence between garment sizes and wearer body measurements. Please measure your waist size directly on your body and refer to the table below to choose your garment size. The GEX240 pads come in one size only.

A	156 - 196						164 - 204			
C	68-76	76-84	84-92	92-100	100-108	107-118	114-126	122-134	130-142	138-150
Size to order	0	1	2	3	4	5	6	7	8	9

### FITTING THE PADS

Fold the pad slightly, accentuating its curvature (see the "knee side" marking on the pad)  
 Insert the folded pad in the kneepad pocket  
 Allow the pad to flatten itself out in the kneepad pocket.  
 Then put on your garment. It must be adjusted at the waist to ensure that the kneepads are in front of your knees to protect them.

### CLEANING INSTRUCTIONS

New as well as used clothing, must be checked carefully for any damages.  
 The kneepads must be removed from the trousers before cleaning.  
 Drying in a tunnel finished is allowed

**Warning**

If a tunnel finisher is used, standard industrial cleaning procedures must be respected, particularly residual moisture at the tunnel entrance and the real temperature inside the tunnel.  
The cleaning conditions mentioned on the label inside the garment must be strictly respected.

**Cleaning code**

Industrial cleaning at a maximum temperature of 75°C.



Iron max. 150°



Do not bleach



Tumble dry allowed



Dry cleaning allowed with all solvents  
except trichloroethylene

**Cleaning of protective pads:**

The pads can be cleaned in soapy water using a soft brush.

**CONTACTS**

Number and details of Notified Body having carried out the EC inspection in article 19 of Regulation 2016/425:

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