



73, Rue Jean Rongière
F – F-91220 Brétigny sur Orge

MANUFACTURER'S INSTRUCTIONS

Version A – July 2013

KNEE PROTECTION EQUIPMENT

EN 14404 +A1: 2010 – type 2

Construction trousers with GEX240 knee protection pads Protection against surface mechanical aggression

PROTECTION PROVIDED BY THE PPE

This protective equipment, consisting of trousers and a pair of GEX240 pads inserted in pockets on the trouser legs, 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 ± 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 ± 10 N is required)

Tests performed:

Trousers + GEX240 pads wearing test: correct

Resistance to perforation of pads + kneepad fabric: level 0

Peak force transmitted: correct (average <3 kN and max. value < 4 kN)

Force distribution: correct (<30 N)

Pad dimensions: correct

The fabric used for the whole pair of trousers and its manufacturing meet the requirements for protection against surface mechanical aggression.

The following tests were carried out to guarantee the mechanical strength of the fabrics used during the service life of the garment, including regular cleaning:

Fabric qualification tests

- Tensile strength NF EN ISO 13934-1: Warp > 100 daN – Weft > 55 daN
- Tear resistance NF ISO 13937-2: Warp ≥ 2.9 daN – Weft ≥ 3 daN
- Abrasion resistance NF EN ISO 12947-2 – 50000 cycles



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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. 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

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.

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 is not suitable for difficult conditions, such as work while kneeling on broken rocks in mines and quarries or kneeling for long periods without standing up frequently.

Knee protection may be reduced in the event of wear of the pads and/or trousers: any protective equipment with damaged foam should be considered to be ineffective and must be replaced.

The protective equipment must be kept away from naked flames.

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.

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

This garment must be stored in dry, well-ventilated place away from direct sunlight.

It must never be stored when dirty.

This article is recyclable after removal of the accessories, in accordance with the chosen method of recycling.

COMPOSITION

- trousers
See label on garment
- pads:
100% polyethylene

PACKAGING

Supplied on hanger



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CHOOSING YOUR SIZE

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.

		C / height 162 - 194 cm								
B		70-78	78-86	86-94	94-102	102-111	111-117	117-129	129-135	135-141
Size to order		0	1	2	3	4	5	6	7	8

FITTING THE PADS

You must always fit the pads before putting on the garment.

- 1** Fold the pad slightly, accentuating its curvature (see the "knee side" marking on the pad)
- 2** Insert the folded pad in the kneepad pocket
- 3** Allow the pad to flatten itself out in the kneepad pocket.
- 4** Your pad is now positioned and held in place and your knee is ideally protected. You can adjust the height of your pad.
Lower position: place your pad at the bottom of the kneepad pocket.
Upper position: place your pad in the flap of fabric inside your kneepad pocket.
- 5** 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

Cleaning of trousers: the trousers must be cleaned as indicated on the label on the garment. Always remove the pads before washing.

Cleaning of protective pads: the pads can be cleaned in soapy water using a soft brush.

Instructions d'entretien :

Machine wash at 60°

Do not bleach

Tumble dry allowed

Iron max. 150°

Caution: do not iron on reflective strips.

Dry cleaning allowed with all solvents except trichloroethylene