

1° Istituto Italiano di ricerca, collaudo, test e certificazione di calzature, abbigliamento
dispositivi di protezione individuale per il lavoro, lo sport, e l'outdoor

The 1st Italian testing and research center for footwear, clothing,
Personal Protective Equipment and Outdoor Sports Equipment

1. Italienisches Prüf- und Forschungsinstitut für Schuhe, Bekleidung,
Persönliche Schutzausrüstung und Outdoor Sportausrüstung

AC+IM

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For the attention of: Robert Scheibenzuber

TEST REPORT

RAPPORTO DI PROVA

PRÜFBERICHT

N. **363036/E**

date: 04/09/2017

Sampling: done by the Applicant

Samples received on: 10/08/2017

Test period: 29-08/04-09/2017

ORGANISMO NOTIFICATO N. 0498

Tutti i risultati si riferiscono esclusivamente ai materiali esaminati.

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L'esito positivo di un rapporto di prova non implica che il prodotto sia "approvato" o "certificato" da RCT.

Commenti e dichiarazioni sono di natura soggettiva e non fanno parte del RdP.

Prova eseguita da laboratorio partner qualificato.

NOTIFIED BODY N. 0498

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Positive results of a test report do not imply that the tested product is "certified" or "approved" by RCT.

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Test carried out by qualified partner lab.

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Kommentare und Erklärungen sind subjektiver Natur und nicht Teil des Prüfbericht.

Test durchgeführt von qualifiziertem Partner-Labor.

SAMPLES: Knee and elbow pads to protects against slight abrasion for bike/downhill :

- art. "**47800-5902 K_SLEEVE**" size L;

- art. "**47800-5903 E_SLEEVE**" size L;

These pads are available also in the sizes "S-M-XL", which have not been provided by the Customer.

See the complete description on the next page.


REQUEST: Laboratory tests for the aim of the EC Certification for first category (Directive 89/686/EEC):

- Innocuousness of the materials, design/construction/comfort, ageing and sizing in accordance with EN ISO 13688:2013;

- Abrasion resistance and tear strength in accordance with EN 388:2016 for materials "1" and "2";

NOTE:

For the innocuousness tests of materials "4" and "5" see materials "5" and "10" in the TR n.363035/E;

OUTCOME:  **PASS**

Description:

article: "**47800-5902 K_SLEEVE**";

design: multilayer construction;

external coating of the front side: black fabric declared Nylon (30), Polyester (34), Polyurethane (38), marked "ION" in white color **(1)** and black three-dimensional fabric **(2)**;

upper part: made of black stretch fabric with logo "ION" in black and grey colors **(3)**;

external coating of the back side: black perforated fabric **(4)** which also serves as sock for the fixing system;

padding: grey foam "NITREX IX-50470 SHEET" , declared thickness 6 mm;

internal coating (in contact with the body): made of black stretch fabric marked "SURFING TRAILS" in white color **(5)** and black mesh fabric Nylon (30), Polyurethane (38) **(6)**;

fastening system: the fastening system is the sock;

The sock is made of black three-dimensional fabric **(2)**; with the central area made of black perforated fabric **(4)**;

article: "**47800-5903 E_SLEEVE**";

design: multilayer construction;

external coating of the front side: black fabric declared Nylon (30), Polyester (34), Polyurethane (38), marked "ION" in white color **(1)** and black three-dimensional fabric **(2)**;

upper and lower sides: made of black stretch fabric with logo "ION" in black and grey colors **(3)**;

external coating of the back side: made of black perforated fabric **(4)** which also serves as sock for the fixing system;

padding: grey foam "NITREX IX-50470 SHEET", declared thickness 6 mm;

internal coating (in contact with the body): black mesh fabric Nylon (30), Polyurethane (38) **(6)**;

fastening system: the fastening system is the sock;

The sock is made of black three-dimensional fabric **(2)**; with the central area made of black perforated fabric **(4)**;



RICOTEST
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| References | Tests | Measuring unit | Requirements | Results |
|--------------------------------|--------|----------------|---|---------|
| 4.3 4.3.1- 4.3.2 - 4.3.3 | Design | | The design should facilitate its correct positioning on the user and should ensure that it remains in place during the course of work, ensuring that no parts of the body get uncovered by expected movements by the wearer. When two or more items are worn together, they should be compatible. | Pass |

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| References | Tests | Measuring unit | Requirements | Results |
|---------------------------------|--|----------------|---|---|
| 4.4 4.4.1 – 4.4.2 Annex C | <p>Comfort Clothing:</p> <ul style="list-style-type: none"> - should provide a level of comfort consistent with the level of protection against hazard which is provided; - should not have rough, sharp or hard surfaces that irritate or injure the user; - should not be so tight, loose and/or heavy so that it restricts normal movements; - should not be so tight that blood flow and deep breathing are restricted; - allows the following movements: standing, sitting, walking, stair climbing, raising both hands above the head, bending over; - should not be so loose that it flaps about or moves independently and inconveniently; - should not be points at which unexpected and unintended gaps open up between or within components of the clothing; - should not cause any unreasonable restriction of movement at any joint; - putting on and removing other items of PPE should be possible without difficulty. | | <p>pass</p> <p>pass</p> <p>pass</p> <p>pass</p> <p>pass</p> <p>pass</p> <p>pass</p> <p>pass</p> | <p>Pass</p> <p>Pass</p> <p>Pass</p> <p>Pass</p> <p>Pass</p> <p>Pass</p> <p>Pass</p> <p>Pass</p> |

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|---------------------------------|---|----------------|--|--|
| 4.4 4.4.1 – 4.4.2 Annex C | Comfort - armholes, crotch and other elements of clothing design are appropriately proportioned and positioned; - the range of adjustment available is adequate; - arms and legs of the clothing should not be so long that they interfere with hand and foot movements. | | pass pass pass | Pass Pass Pass |
| 5 | Ageing | | | |
| 5.3 | Dimensional changing due to cleaning | | (10 washing cycles at 30°C/ dry cleaning) | 10 washing cycles procedure 3G, drying procedure A |
| | | | | Materials : 1 2 3 |
| ISO 5077:2007 ISO 6330:2012 | Domestic washing - length - width - length - width | % % | woven materials: ≥-3 and ≤+3 knitted material and nonwovens: ≥-5 - ≤+5 | 0 0 -2,0 -2,0 0 -2,0 - - - - - - |
| | | | | Materials : 4 5 6 |
| ISO 5077:2007 ISO 6330:2012 | Domestic washing - length - width - length - width | % % | woven materials: ≥-3 and ≤+3 knitted material and nonwovens: ≥-5 - ≤+5 | 0 0 0 0 0 0 - - - - - - |
| - | After cleaning washing marking shall be legible | - | pass | Pass |

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| References | Tests | Measuring unit | Requirements | Results |
|------------|---|----------------|--|--|
| | | | | Material : 2 |
| 6.1 | Abrasion resistance External layer: - single values - lowest value Internal layer: - single values - lowest value - Final value / level: | number of rubs | ≥ 100 / lev.1 ≥ 500 / lev.2 ≥ 2000 / lev.3 ≥ 8000 / lev.4 | 1300 – 1700 – 1900 – 2300 1300 - - 1300 / lev. 2 |
| 6.4 | Tear resistance External layer: - single values - lowest value Internal layer: - single values - lowest value - Final value / level: | N | ≥ 10 / lev.1 ≥ 25 / lev.2 ≥ 50 / lev.3 ≥ 75 / lev.4 | 67,2 – 67,0 – 62,9 – 62,9 62,9 - - 62,9 / lev. 3 |
| | | | | After 10 washing cycles |
| | | | | Material : 1 |
| 6.1 | Abrasion resistance External layer: - single values - lowest value Internal layer: - single values - lowest value - Final value / level: | number of rubs | ≥ 100 / lev.1 ≥ 500 / lev.2 ≥ 2000 / lev.3 ≥ 8000 / lev.4 | 400 – 670 – 400 – 670 400 - - 400 / lev. 1 |
| 6.4 | Tear resistance External layer: - single values - lowest value Internal layer: - single values - lowest value - Final value / level: | N | ≥ 10 / lev.1 ≥ 25 / lev.2 ≥ 50 / lev.3 ≥ 75 / lev.4 | 58,6 – 50,3 – 49,0 – 62,3 49,0 - - 49,0 / lev. 2 |

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| References | Tests | Measuring unit | Requirements | Results |
|------------|---|----------------|--|--|
| | | | | Material : 2 |
| 6.1 | Abrasion resistance External layer: - single values - lowest value Internal layer: - single values - lowest value - Final value / level: | number of rubs | ≥ 100 / lev.1 ≥ 500 / lev.2 ≥ 2000 / lev.3 ≥ 8000 / lev.4 | 900 – 900 – 900 - 1000 900 - - 900 / lev. 2 |
| 6.4 | Tear resistance External layer: - single values - lowest value Internal layer: - single values - lowest value - Final value / level: | N | ≥ 10 / lev.1 ≥ 25 / lev.2 ≥ 50 / lev.3 ≥ 75 / lev.4 | 86,0 – 82,5 – 71,7 – 96,6 71,7 - - 71,7 / lev. 3 |

End of the test report.