

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

LA

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Babostrasse, 21
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For the attention of: Mario Steinacker

TEST REPORT

RAPPORTO DI PROVA

PRÜFBERICHT

N. **3738018/E**

date: 20/02/2019

Sampling: done by the Applicant

Samples received on: 11/01/2019

Test period: 12-20/02/2019

ORGANISMO NOTIFICATO N. 0498

Tutti i risultati si riferiscono esclusivamente
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Prova eseguita da laboratorio partner
qualificato.

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Report.

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: Glove for motorcycle rider, article **KTM ADVENTURE S 2019**.

See the complete description on the next page.

REQUEST: Laboratory tests in accordance with EN 420:2003+A1:2009, EN 13594:2015
for the aim of the Certification (Regulation (EU)2016/425).

OUTCOME:  **PASS**

TEST REPORT RAPPORTO DI PROVA PRÜFBERICHT

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Description:

article: **KTM ADVENTURE S 2019;**

model: five fingers;

palm side:

- black synthetic leather CHAMUDE;

lining palm side, sidewalls, fourchettes and palm side of the cuff:

- transparent membrane SYMPATEX PU;
- black knitted fleece HYDROBERG PES;

back side:

- black knitting SPANDEX;
- black fabric DURA STRETCH;
- orange fabric coated with white polymeric material DURA STRETCH ORANGE;

lining back side and back side of the cuff:

- white knitting;
- white foam material;
- transparent membrane SYMPATEX PU;
- white fleece THINSULATE C40 ISOLATION;
- black knitted fleece HYDROBERG PES;

side wall of index and little finger:

- black fabric DURA STRETCH;

partial reinforcements:

- reversed black grain GOATSKIN LEATHER on palm side;

fourchettes:

- black fabric DURA STRETCH;

elastic wrist-band:

- white, applied internally on palm side;

cuff palm side:

- black fabric DURA STRETCH;

cuff back side:

- black fabric DURA STRETCH;
- orange fabric coated with white polymeric material DURA STRETCH ORANGE;
- piping in white fabric with grey retroreflective material;

fastening system:

- strap made of black synthetic leather CHAMUDE with black hook and loop, applied on the palm side;
- flap made of black elastic with black hook and loop, applied on the palm side of the cuff;

reinforcement on palm basis (impact abrasion area):

- reversed black grain GOATSKIN LEATHER;
- grey foam material;

knuckle reinforcements:

- preformed yellow polymeric material marked VIK-001 padded with grey foam material;

edging:

- black knitting coated with black polymeric material;

sizes: S/8, M/9, XL/11, XXL/12.

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Seams:

- A) DURA STRETCH BLACK / DURA STRETCH ORANGE: flat-seam, single stitching – with covered safety stitching (main);
- B) DURA STRETCH BLACK / DURA STRETCH ORANGE: inside seam, single stitching (main, fourchettes);
- C) DURA STRETCH BLACK / DURA STRETCH BLACK: inside seam, single stitching (main);
- D) DURA STRETCH BLACK / CHAMUDE: inside seam, single stitching (main, fourchettes);
- E) DURA STRETCH BLACK / SPANDEX: inside seam, single stitching (main, fourchettes);
- F) DURA STRETCH ORANGE / SPANDEX: flat-seam, single stitching – with covered safety stitching (main);
- G) CHAMUDE / SPANDEX + WHITE KNITTING: flat-seam unfolded, double stitching (main);
- H) CHAMUDE / CHAMUDE: flat-seam unfolded, double stitching (main);
- I) CHAMUDE / DURA STRETCH ORANGE: inside seam, single stitching: inside seam, single stitching (main);
- L) DURA STRETCH BLACK + REFLECTIVE PIPING / DURA STRETCH BLACK: flat-seam, single stitching – with covered safety stitching (main);
- M) CHAMUDE / SPANDEX: inside seam, single stitching (main);
- N) CHAMUDE / DURA STRETCH BLACK: flat-seam unfolded, single stitching (main).

TEST REPORT RAPPORTO DI PROVA PRÜFBERICHT

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date: 20/02/2019

References	Tests	Measuring unit	Requirements	Results
EN 420:2003 +A1:2009	Protective gloves: general requirements - Mandatory tests:			
4.1	Design and construction		In the foreseeable conditions of use for which it is intended, the user can perform the hazard related activity normally whilst enjoying appropriate protection at the highest possible level.	pass
4.1	Design and construction		The material and strength of the seams shall be such that the overall performance of the glove is not significantly decreased.	pass
4.3.1	Innocuousness		Materials and construction shall be ergonomically correct and innocuous. Allergenic substances shall be named by the technical documentation.	pass
analogue method 4.3.2 EN ISO 4045:2018 EN ISO 3071:2006	pH value - leather GOATSKIN LEATHER: - other materials CHAMUDE: HYDROBERG PES: SPANDEX: DURA STRETCH BLACK: DURA STRETCH ORANGE: GREY RETROREFLECTIVE PIPING: BLACK ELASTIC: HOOK AND LOOP: EDGING:		3,5 < pH < 9,5 “	4,40 7,2 7,5 7,3 4,3 6,7 6,9 6,9 8,2 6,6
4.3.3 EN ISO 17075:2007#	Chromium VI content GOATSKIN LEATHER:	mg/kg	≤ 3	< 3

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4.3 (6.3)	Hard inclusions	-	Hard sharp edges or sharp points shall not be present as a part of the interior or exterior of the glove. Metallic, ceramic, plastic or similar hard materials present as studs, staples, rivets, plates or similar structures used to form part of the protective layer of the glove shall not present a hazard to the hand.	pass
4.4 A.2	<p>Ergonomic requirements</p> <p>1) are the insides of the gloves free from rough, sharp, hard or otherwise irritant parts?</p> <p>2) can both gloves be put on, adjusted and taken off without help?</p> <p>3) can you confirm that your wrist does not suffer from excessive pressure by the restraint system?</p> <p>4) can you satisfactorily feel and operate the handlebars, accelerator, clutch and brake levers?</p> <p>5) can you confirm that no parts of the glove catch on or interfere with any controls or switches?</p> <p>6) do you confirm that there are no other features, which might make riding hazardous?</p> <p>7) If knuckle protection is available according to 4.11: while firmly gripping a cylindrical bar of \varnothing 32 mm \pm 5 mm / length \geq120 mm: do you feel the knuckle protection is properly positioned to protect the knuckles?</p>	-	<p>yes</p> <p>yes</p> <p>yes</p> <p>yes</p> <p>yes</p> <p>yes</p> <p>yes</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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References	Tests	Measuring unit	Requirements	Results
4.5 EN 420:2003 +A1:2009	Sizing and cuff length Sizing - declared size	size		S/8 M/9 XL/11 XXL/12
	- measured size to be marked	size		7,5 ^A 8,5 ^A 10,5 ^A 11,5 ^A
	- cuff length measured on worn glove	mm	level 1: ≥ 15 level 2: ≥ 50	65 70 75 85
	- missing cuff length	mm		0 0 0 0
^A Considering the low precision requested by the standard, a difference of half size between the declared size and the measured one is considered acceptable.				
4.6 (6.5)	Restraint - an adjustable restraint system shall be incorporated into the wrist or cuff	-	pass	pass
	- size of the glove: S/8, M/9 - test wrist n°: 2			
	- level 1: restraint force (25 N/30 s)	-	pass	pass
	- level 2: restraint force (50 N/30 s)	-	pass	pass
4.7 (6.6 - EN 388:2016 + A1:2018)	Tear strength - palm and palm side of fingers CHAMUDE: HYDROBERG PES:		lev. 1 lev. 2	33,0 23,5
	- outcome (strongest layer): area with CHAMUDE, HYDROBERG PES:	N	≥ 25 ≥ 35	33,0
4.7 (6.6 - EN 388:2016 + A1:2018)	Tear strength - cuff DURA STRETCH: DURA STRETCH ORANGE: HYDROBERG PES:		lev. 1 lev. 2	67,2 28,4 23,5
	- outcome (strongest layer): area with DURA STRETCH, HYDROBERG PES: area with DURA STRETCH ORANGE, HYDROBERG PES:	N	≥ 18 ≥ 30	67,2 28,4

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References	Tests	Measuring unit	Requirements	Results
4.7 (6.6 - EN 388:2016 + A1:2018)	Tear strength - back and back side of fingers SPANDEX: DURA STRETCH: DURA STRETCH ORANGE: HYDROBERG PES:	N	lev. 1 lev. 2	36,3 67,2 28,4 23,5
	- outcome (strongest layer): area with SPANDEX, HYDROBERG PES: area with DURA STRETCH, HYDROBERG PES: area with DURA STRETCH ORANGE, HYDROBERG PES:		≥ 18 ≥ 30	36,3 67,2 28,4
4.7 (6.6 - EN 388:2016 + A1:2018)	Tear strength - fourchettes DURA STRETCH: HYDROBERG PES:	N	lev. 1 lev. 2	67,2 23,5
	- outcome (strongest layer): area with DURA STRETCH, HYDROBERG PES:		≥ 18 ≥ 25	67,5
4.8 (6.7-Annex B)	Seam strength - main assembly seams	N/mm	lev. 1 lev. 2 ≥ 6 ≥ 10	A: 21,6 B: 14,7 C: 15,3 D: 12,9 E: 9,2 F: 11,3 G: 11,0 H: 12,4 I: 11,0 L: 9,6 M: 9,0 N: 13,4
	- fourchettes	N/mm	≥ 4 ≥ 7	B: 14,7 D: 12,9 E: 9,2

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References	Tests	Measuring unit	Requirements	Results																														
4.9 (EN 388:2016 + A1:2018)	Blade cut resistance palm face Mean value specimen 1: Mean value specimen 2: Final index:	Index	lev. 1 lev. 2 ≥ 1,2 ≥ 1,8	CHAMUDE+HYDROBERG PES 2,1 2,0 2,0																														
	<table border="1"> <thead> <tr> <th>Sequence</th> <th>C_n Control specimen</th> <th>T Test specimen 1</th> <th>C_{n+1} Control specimen</th> <th>I Index</th> </tr> </thead> <tbody> <tr><td>1</td><td>1,2</td><td>1,2</td><td>1,2</td><td>2,0</td></tr> <tr><td>2</td><td>1,2</td><td>1,2</td><td>1,2</td><td>2,0</td></tr> <tr><td>3</td><td>1,2</td><td>1,2</td><td>1,3</td><td>2,0</td></tr> <tr><td>4</td><td>1,3</td><td>1,2</td><td>1,2</td><td>2,0</td></tr> <tr><td>5</td><td>1,2</td><td>1,8</td><td>1,2</td><td>2,5</td></tr> </tbody> </table>	Sequence	C _n Control specimen	T Test specimen 1	C _{n+1} Control specimen	I Index	1	1,2	1,2	1,2	2,0	2	1,2	1,2	1,2	2,0	3	1,2	1,2	1,3	2,0	4	1,3	1,2	1,2	2,0	5	1,2	1,8	1,2	2,5			
Sequence	C _n Control specimen	T Test specimen 1	C _{n+1} Control specimen	I Index																														
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	<table border="1"> <thead> <tr> <th>Sequence</th> <th>C_n Control specimen</th> <th>T Test specimen 2</th> <th>C_{n+1} Control specimen</th> <th>I Index</th> </tr> </thead> <tbody> <tr><td>1</td><td>1,2</td><td>1,2</td><td>1,2</td><td>2,0</td></tr> <tr><td>2</td><td>1,2</td><td>1,2</td><td>1,3</td><td>2,0</td></tr> <tr><td>3</td><td>1,3</td><td>1,3</td><td>1,3</td><td>2,0</td></tr> <tr><td>4</td><td>1,3</td><td>1,3</td><td>1,3</td><td>2,0</td></tr> <tr><td>5</td><td>1,3</td><td>1,3</td><td>1,3</td><td>2,0</td></tr> </tbody> </table>	Sequence	C _n Control specimen	T Test specimen 2	C _{n+1} Control specimen	I Index	1	1,2	1,2	1,2	2,0	2	1,2	1,2	1,3	2,0	3	1,3	1,3	1,3	2,0	4	1,3	1,3	1,3	2,0	5	1,3	1,3	1,3	2,0			
Sequence	C _n Control specimen	T Test specimen 2	C _{n+1} Control specimen	I Index																														
1	1,2	1,2	1,2	2,0																														
2	1,2	1,2	1,3	2,0																														
3	1,3	1,3	1,3	2,0																														
4	1,3	1,3	1,3	2,0																														
5	1,3	1,3	1,3	2,0																														
4.10 (6.8-Annex C)	Impact abrasion resistance - single abrasion time - mean abrasion time	s	lev. 1 lev. 2 ≥ 3,0 ≥ 6,0 ≥ 4,0 ≥ 8,0	14,70 – 18,45 – 15,20 – 14,95 15,8																														
4.11 (6.4)	Knuckles protection	-	They shall cover all the four knuckles	pass																														
4.11 (6.9)	Impact protection of knuckles (optional for level 1 gloves, mandatory for level 2 gloves and for all gloves designed and constructed to attenuate impact energy in the knuckle area) - single result: - mean transmitted force: - visual inspection:	kN kN -	lev. 1 lev. 2 ≤ 9,0 ≤ 5,0 ≤ 7,0 ≤ 4,0 no part of the glove shall crack or shatter producing sharp edges, and the chamois leather between the specimen and anvil shall not be torn or holed.	2,6 – 2,1 – 2,3 – 2,8 2,5 pass																														
-	Performance levels to be marked:	-	1/1KP/2KP	1KP																														

End of the test report.